Technical Support Document

Emissions & Generation Resource Integrated Database

eGRID

Data Years 1996-2000

U. S. Environmental Protection Agency Office of Atmospheric Programs
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NOTICES

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ABBREVIATIONS AND ACRONYMS

ARDB	-- Acid Rain Data Base
ATS	-- Allowance Tracking System
BBtu	-- Billion Btu
CAMD	-- Clean Air Markets Division
CEM	-- Continuous Emissions Monitoring
CHP	-- Combined heat and power (cogneration)
CO_2	-- Carbon dioxide
CPPD	-- Climate Protection Partnerships Division
CT	-- Combined cycle combustion turbine (nonsteam generator prime mover)
DOE	-- U.S. Department of Energy
eGRID97PC	-- User Friendly Data Browser for the Emissions & Generation Resource Integrated Database for the year 1997
eGRID2000PC	-- User Friendly Data Browser for the Emissions & Generation Resource Integrated Database for the year 2000
eGRID2002PC	-- User Friendly Data Browser for the Emissions & Generation Resource Integrated Database for the year 2002
eGRID	-- Emissions & Generation Resource Integrated Database
eGRID97	-- Emissions & Generation Resource Integrated Database for the year 1997
eGRID2000	-- Emissions & Generation Resource Integrated Database for the year 2000
eGRID2002	-- Emissions & Generation Resource Integrated Database for the year 2002, including the spreadsheets, Data Browser, Technical Support Document, and Users Manual
EGC	-- Electric generating company
EIA	-- Energy Information Administration
EPA	-- U.S. Environmental Protection Agency
ETS	-- Emissions Tracking System
FERC	-- Federal Energy Regulatory Commission
GT	-- Gas turbine (nonsteam generator prime mover)
GWh	-- Gigawatt-hour
Hg	-- Mercury
IC	-- Internal combustion engine (nonsteam generator prime mover)
ICE	-- Information Collection Effort (by EPA for 1999 mercury data)
IMDB	-- Integrated Modeling Data Base
IPM	-- Integrated Planning Model (developed by ICF Incorporated)
lbs	-- Pounds
MMBtu	-- Million Btu
MW	-- Megawatt
MWC	-- Municipal Solid Waste Combustor
MWh	-- Megawatt-hour
NADB	-- National Allowance Data Base
NEI	-- National Emission Inventory
NERC	-- North American Electric Reliability Council
NO_x	-- Nitrogen oxide
OAP	-- Office of Atmospheric Programs
ORIS	-- Office of the Regulatory Information System
PC	-- Personal (micro)computer

ABBREVIATIONS AND ACRONYMS (continued)

PCA	-- Power control area
Pechan	-- E.H. Pechan & Associates, Inc.
SAS	-- Statistical Analysis System
SO_2	-- Sulfur dioxide

SECTION 1
INTRODUCTION

The Emissions & Generation Resource Integrated Database (eGRID) is a comprehensive inventory of environmental attributes of electric power systems. eGRID provides a convenient source of data for States implementing policies such as emissions disclosure, output-based emissions standards, and renewable portfolio standards. It also provides air regulators with a powerful tool for monitoring changes in power plant air emissions as the electricity industry becomes more competitive.

eGRID is based on available plant-specific data for all U.S. electricity generating plants that provide power and report data to the U.S. government. Data reported includes generation (in MWh), resource mix (for renewable and nonrenewable generation), emissions (in tons) for NO_x, SO_2, CO_2, and mercury (in lbs); emission rates (in both pounds per megawatt-hour [lbs/MWh] and pounds per million Btu [lbs/MMBtu] for NO_x, SO_2, and CO_2) and for mercury (pounds per gigawatt-hour [lbs/GWh] and pounds per billion Btu [lbs/BBtu]); heat input (in MMBtu); and capacity (in MW). eGRID reports this information on an annual basis (as well as by ozone season for NO_x, generation, and heat input) at different levels of aggregation.

The most recent editions of eGRID include data on energy flows. State Import/Export data files provide estimates of annual net imports (or net exports) by State for each year, 1994 through 2000. Similar data are provided at the U.S. level, representing annual net imports and net exports with Canada and Mexico. Interchange data files provide data on annual interchange between grid regions and the power control area and North American Electric Reliability Council (NERC) region levels for each year, 1994 through 1998.

The 1996 eGRID (eGRID96) (Pechan, 1999a) was first released in December 1998; the 1997 eGRID (eGRID97) (Pechan, 1999b) with 1996 and 1997 data, was first released in December 1999; and the 2000 eGRID (eGRID2000), with 1996 and 1997 data as in eGRID97, and 1998 data, was released in March and September 2001. The 2002 eGRID (eGRID2002), with preliminary 2000 data, was first released as Version 1.0 in December 2002. Version 2.0 of eGRID2002 (released in April 2003) and Version 2.01 (released in May 2003) include 1996-2000 data.

eGRID2002 includes data from nonutility power plants as well as utility-owned plants. Plant-level utility data can be compared, in general, across the five data years. However, since prior to 1998 data, EIA nonutility data were confidential, nonutility data can be compared, in general, only among the 1998, 1999, and 2000 data years. eGRID2002's 1999 and 2000 data have been reconfigured to reflect the industry's current structure, including company mergers, power plant divestiture to nonutility companies, and grid reconfigurations through December 31, 2002, while the 1998 data reflect the industry configuration through December 31, 2000 and the 1996 and 1997 data are configured according to the industry structure as of December 31, 1997.

Although eGRID is based on 24 existing Federal data sources, its development required substantial attention to quality control. Accurate matching of entities from different data bases required great care, even where identification codes were available. Inconsistencies between data sources,

missing data, and ambiguous data necessitated adjustments to values of individual data elements, especially identification data. In general, however, incorrect data have not been altered, except with regard to the relationship of plants to the power grid.

This document provides a description of each of the eGRID2002 data elements in the 38 combined years subfiles. Section 2 provides a summary of the data base; Section 3 relates the methodology for biomass, solid waste, and CHP; Section 4 describes the data elements in detail; and Section 5 includes data element oddities such as eGRID specific ID and name changes. The eGRID2002 Users Manual (Pechan, 2003) also has information about differences among 1996, 1997, 1998, 1999, and 2000 data and methodologies.

SECTION 2
HOW eGRID2002 DATA ARE ORGANIZED

eGRID SUMMARY

eGRID is assembled from a variety of data collected by the U.S. Environmental Protection Agency (EPA), Energy Information Administration (EIA), and Federal Energy Regulatory Commission (FERC). Federal data sources include:

- EPA, Emissions Tracking System/Continuous Emissions Monitoring (ETS/CEM) (EPA, 1998-2002a; 1998-2002b);
- EPA, Allowance Tracking System (ATS);
- EPA, National Air Pollutant Emission Inventory (NEI) (formerly National Air Pollutant Emission Trends [NET]) (EPA, 2001a);
- EPA, Electric Utility Steam Generating Units Hazardous Air Pollutant Emission Study: 1999 Mercury Information Collection Effort (ICE) Data Base (EPA, 2001b);
- EPA, Integrated Modeling Data Base (IMDB) (EPA, 2001c);
- EPA, Acid Rain Data Base (ARDB) (EPA, 1997);
- EPA, Compilation of Air Pollutant Emission Factors, AP-42 -- last updated September 2002 (EPA, 2001d);
- EPA, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-1999, Table A-12: Key Assumptions for Estimating Carbon Emissions, and Table A-13: Annually Variable Carbon Content Coefficients by Year (EPA, 2001e);
- EPA, Landfill Methane Outreach Program Data Base (EPA, 1999);
- EPA, Large Municipal Waste Combustor Emissions for 2000 (EPA, 2002);
- EIA, Form EIA-759: Monthly (Utility) Power Plant Report (EIA, 1997-2001);
- EIA, Form EIA-767: Steam-Electric Operation and Design Report (EIA, 1997-2002a);
- EIA, Form EIA-860A (formerly EIA-860): Annual Electric Generator Report - Utility (EIA, 1997-2002b);
- EIA, Form EIA-860B (formerly EIA-867): Annual Electric Generator Report - Nonutility (EIA, 1999-2002);
- EIA, Form EIA-861: Annual Electric Utility Report (EIA, 1995-2002);
- EIA, Form 900: Monthly (Nonutility) Power Plant Report (EIA, 2000-2001);
- EIA, Electric Sales and Revenue, Appendix C: Unregulated Retail Sales (EIA, 1996-2000);
- EIA, Electric Power Annual, Volume 1, Table A7: Net Generation by Census Division and State (EIA, 1995-2001);
- EIA, Electric Power Annual, Volume 2, Table 4: U.S. Electric Utility Sales to Ultimate Customers by Sector, Census Division, and State (EIA, 1994-2000);
- EIA, Electric Power Annual, Volume 2, Table 58: Gross Generation for U.S. Nonutility Generating Facilities by Energy Source and State (EIA, 1994-2000);
- EIA, Electric Power Monthly, Electric Utility Plants That Have Been Sold and Reclassified as Nonutility Plants (EIA, 1999-2002b);
- U.S. Department of Energy, Form FE-7871R: Regional Transactions Across

International Borders (DOE, 1994-2000);

- Federal Energy Regulatory Commission, Form FERC-423: Monthly Report of Cost and Quality of Fuels for Electric Plants (FERC, 1997-2001); and
- Federal Energy Regulatory Commission, Form FERC-714: Annual Electric Control and Planning Area Report (FERC, 1994-1999).

All data displayed in eGRID are derived from Federal data sources; EPA does not collect data directly from electric generators for eGRID. Inconsistencies between data sources, missing data, and ambiguous data occasionally necessitate adjustments to values of individual data elements. Where necessary, EPA substitutes data from secondary sources or default values. EPA also updates ownership, corporate affiliation, and grid configuration data. In general, however, data are displayed as reported to the government. Nonutility data from EIA have been updated several times since first appearing on the EIA web site. Although EIA provided a newly updated 2000 EIA-860B to its web site in early April 2003, it was too late for EPA to include it in this eGRID2002 edition. In developing data files for eGRID2002, EPA used the EIA-860B data files that were provided by EIA in May 2002, supplemented by update files and information provided by EIA through October 2002. EIA-860B data for 1998 through 2000 are considered preliminary by EIA. See Appendix B for more information.

Two formats of eGRID2002 are available for use. The 1999 and 2000 aggregate data are displayed in 15 spreadsheets for each year; 1998 data files are displayed in 16 spreadsheets; the 1997 data are displayed in 14 spreadsheets; and the 1996 data are displayed in 12 spreadsheets. The eGRID data for each of the five years (yy) are contained in four workbooks: (1) eGRID2002YRyy_plant, containing plant, boiler, generator, plant biomass adjustment file, and four Note files; (2) eGRID2002YRyy_location, containing location (operator)-based spreadsheets for State, electric generation company, parent company, power control area, eGRID subregion, NERC region, U.S., and four Note files; (3) eGRID2002YRyy_owner, containing owner-based spreadsheets for electric generation company, parent company, power control area, eGRID subregion, NERC region, U.S., and four Note files; and (4) eGRID2002_powerflow, containing 18 time series spreadsheets (1994-2000 state import-export, one U.S. generation and consumption file for 1994-2000, 1994-1998 power control area interchange, and 1994-1998 NERC region interchange files). The data browser (called the User Interface in 1996 and 1997 editions of eGRID), eGRID2002PC, through which all five years of data can be accessed using convenient queries. The data browser can be installed on the hard drive of an individual PC, as long as it has a Windows operating system. Both the spreadsheets and the data browser can be downloaded from the EPA Climate Protection Partnerships Division (CPPD) Clean Energy eGRID web site, http://www.epa.gov/cleanenergy/egrid, along with a fact sheet, a Users Manual, and this document. They will also be available on CD-ROM.

An eGRID2002 Users Manual (Pechan, 2003) is a companion document that describes the five years of data and how to work with the two formats. A third format, eGRID2002 Online, on a new eGRID web site, is currently under development. eGRID2002 Online will permit users to access eGRID data for 1998-2000 through an on-line data browser and will include its own documentation. eGRID2002 Online is expected to be operational in mid-year 2003.

eGRID AGGREGATION SUBFILES

eGRID2002 contains data for utility and nonutility units at different levels of aggregation. The focus of the data files, as the data base name implies, is on generation – both MWh and as a percentage (called "resource mix" – generation of a certain fuel or resource type divided by total generation) and on SO_2, NO_x, CO_2, and Hg emissions – both emission rates in lbs/MWh, lbs/MMBtu (for SO_2, NO_x, and CO_2) and lbs/GWh and lbs/BBtu (for Hg), and tons (called "emissions profiles"). Data users should take

note that eGRID's emissions profiles are calculated at the generation level, as they are derived for individual power plants. If eGRID's output emission rates (in lbs per MWh) are applied at the retail level (i.e., by assigning emissions to usage by retail customers), emissions should generally be revised upwards by an appropriate factor to reflect line losses.

eGRID2002's 1999 and 2000 data have been reconfigured to reflect the industry's current structure, including company mergers, power plant divestiture to nonutility companies, and grid reconfigurations through December 31, 2002; while the 1998 data reflect the industry configuration through December 31, 2000; and the 1996 and 1997 data are configured to represent the industry as of December 31, 1999. Data from 1996, 1997, and 1998 have not been reconfigured for eGRID2002.

For 2000 data, there are 15 aggregation subfiles:

- EGRDBLR (boiler), with 2,530 year 2000 records (all utility);
- EGRDGEN (generator), with 12,742 year 2000 records;
- EGRDPLNT (plant), with 4,701 year 2000 records;
- EGRDST (State), with 51 records;
- EGRDEGCO and EGRDEGCL (electric generating company), with 1,945 year 2000 records for the owner-based file and 1,662 year 2000 records for the location (operator)-based file;
- EGRDPRO and EGRDPRL (parent company), with 89 and 88 year 2000 records, respectively;
- EGRDPCAO and EGRDPCAL (power control area), with 122 year 2000 records in both the owner-based file and location (operator)-based file;
- EGRDSRO and EGRDSRL (eGRID subregion), with 28 eGRID subregion year 2000 records in both the owner-based and location (operator)-based files;
- EGRDNRCO and EGRDNRCL (NERC region), with 13 NERC region year 2000 records in both the owner-based and location (operator)-based files; and
- EGRDUS, with 1 U.S. totals record.

The number of variables in each of the 15 aggregation subfiles varies, with 46 in EGRDBLR, 19 in EGRDGEN, 157 in EGRDPLNT, 93 in EGRDST, 101 in EGRDEGCO and EGRDEGCL, 94 in EGRDPRO, 93 in EGRDPRL, 101 in EGRDPCAO, 124 in EGRDPCAL, 91 in EGRDSRO and EGRDSRL, 96 in EGRDNRCO, 119 in EGRDNRCL, and 94 in EGRDUS; the first variable in each subfile is a unique sequence number for that file. The boiler file is sorted by State postal code abbreviation, plant name, plant code, and boiler ID. The generator file is sorted by State postal code abbreviation, plant name, plant code, and generator ID. The plant file is sorted by State postal code abbreviation, plant name, and plant code. The State file is sorted by State postal code abbreviation. The two electric generating company files are sorted by electric generating company name, the two parent company files are sorted by parent company name, the two power control area files are sorted by power control area name, the two eGRID subregion files are sorted by eGRID subregion name, and the two NERC region files are sorted by NERC region acronym.

OTHER eGRID SUBFILES

eGRID contains several other types of subfiles in addition to aggregation subfiles. These include biomass adjustment, note/change, State import/export, and interchange files.

eGRID contains a subfile, EGRDBMSW (#16), that documents adjustments to original biomass emissions data that were made for data years 1997 and 1998 only and that are reflected in the plant files

for those years.

Changes to power industry structure are reported in four Note files (EGRDPLCH, EGRDEGCH, EGRDPRCH, EGRDPCCH -- #17-20), track changes to records in the plant, EGC, parent company, and PCA files, respectively. They have 1,032, 349, 91, and 90 records (note that each entity may have more than one record), respectively, and 14 variables each. These files should be referred to for additional information when there is a "Y" value for the CHANGE variable in one of the eGRID aggregation files.

The State import/export files for the years 1994 through 2000 (EGSTIE94 through EGSTIE00 -- #21-27) each have 51 records with 18 variables. The U.S. generation and consumption file (EGRDUSGC, #28), with aggregate data for the years 1994-2000, has 1 record with 49 variables. The State and U.S. files can be linked to EGRDST and EGRDUS, respectively.

Finally, there are ten interchange files. The power control area (PCA) interchange files cover five years of data for 1994 through 1998 (EGPINT94-EGPINT98, #29-33); each file has 688 records and 15 variables. The NERC region interchange files (EGNINT94-EGNINT98, #34-38) also cover five years of data for 1994 through 1998; each file has 46 records and 10 variables.

The file structure for the subfiles are included in Table 1 of Appendix A. The file structure also includes the years of available data values for each variable, along with a description of the variable and the original data source.

SECTION 3
eGRID METHODOLOGY

ESTIMATION OF EMISSIONS

Annual Estimates for NO_x, SO_2, and CO_2

Emissions in eGRID are estimated in tons, using data from a variety of sources (see SOURCEM variable in the eGRID plant file). eGRID's default source for SO_2, NO_x, and CO_2 data is EPA's Emissions Tracking System/Continuous Emissions Monitoring (ETS/CEM). Although many small units, as well as some nonutilities and cogenerators, are not subject to ETS/CEM data reporting, the vast majority of emission tons reported in eGRID are from the ETS/CEM data. Plant-level emissions are often built by summing its parts – which could be simply boilers or a combination of boilers and prime movers representing an aggregation of like nonsteam generating units. In general, plant-level emissions reflect a combination of monitored (ETS/CEM) and estimated data. Depending on the source of data and the emissions type, emission tons are estimated at the plant level before making adjustments specific to eGRID.

Before the application of ETS/CEM data, all boilers that report to the EIA-767 have SO_2 and NO_x initially estimated using the quantity of fuel reported, the appropriate emission factor (based on fuel type and boiler bottom type and firing type), sulfur content (for SO_2), and control efficiency (which is reported on the EIA-767 for SO_2 and estimated for NO_x). CO_2 is estimated using the greenhouse gas methodology that uses the heat input, the fuel-specific carbon coefficient, and the fraction of carbon oxidized.

Subsequently, if ETS/CEM SO_2, NO_x, and CO_2 data are available, they are used for eGRID in place of the EIA-based estimated emissions (see, for example, SO2EAN, SO2FAN, and SO2BAN variables in the eGRID boiler file). The boiler emissions are then summed to the plant-level. If a plant has nonsteam generating units in addition to steam boilers or has only nonsteam generating units, fuel use is aggregated at the prime mover level (such as gas turbines and internal combustion engines) as reported on the EIA-759; along with plant-level fuel quality data from the EIA/FERC-423 (for SO_2, the sulfur content and for CO_2, the heat content), initial EIA-based emission estimates are made in a similar fashion to estimating EIA-767 boiler emissions, although no emission controls data are available.

For nonutility plants that report to the EIA-860B, initial emission estimates are made in the same way as explained above, using reported plant fuel type, fuel quantity, sulfur content, and heat content. Subsequently, if EPA's ETS/CEM data are available for any such units, these data are aggregated to the plant level and used for eGRID, replacing the EIA-based estimated plant-level emissions.

Annual Estimates for Mercury

EPA has developed a file of year 2000 SO_2, NO_x, and Hg (mercury) emissions for large municipal solid waste combustors (MWC); when available, these emissions, summed to the plant level, are used for eGRID in place of the EIA-based estimated emissions (there is no overlap with the

ETS/CEM emissions). For information on how these estimates are adjusted to estimate year 1999 data, see the Methodology section.

EPA has also developed a file of 1999 Hg emissions for coal-fired boilers; these emissions, summed to the plant level, are incorporated into eGRID (there is no overlap with the solid waste Hg emissions). For information on how these estimates are adjusted to estimate year 1998 and 2000 data, see the Methodology section.

Adjustments for Biomass and CHP

For certain plants, there are two possible further adjustments to the eGRID plant-level emission estimates, depending on whether the plant burns biomass, including renewable methane (such as landfill methane or digester gas); and whether the plant is a combined heat and power (CHP) facility. See the Methodology section for further details.

Ozone Season Estimates for NO_x

For those boilers that report to the EIA-767, as well as large plants with nonsteam prime movers that report to the EIA-759, monthly fuel quantity is provided so that five-month (May through September) ozone season NO_x emissions can be estimated in the same way as for annual EIA-based NO_x emissions. EPA also provides ozone season ETS/CEM NO_x emissions, so that for boilers that also have annual ETS/CEM emissions, these ETS/CEM ozone season NO_x estimates are used (see, for example, NOXEOZ, NOXFOZ, and NOXBOZ variables in the eGRID boiler file). To obtain the ozone season NO_x emissions, plants whose data are (1) derived from either EIA-860B or annual-only EIA-759; or (2) obtained/estimated from EPA's large MWC file; or (3) have no source of actual ozone season NO_x data; the annual NO_x estimates are multiplied by 5/12.

Calculation of Emission Rates

Both output and input emission rates are calculated for eGRID, beginning with the plant level of aggregation. The measurement units for output rates are lbs/MWh for SO_2, NO_x, and CO_2; and lbs/GWh for Hg. For input rates, the measurement units are lbs/MMBtu for SO_2, NO_x, and CO_2; and lbs/BBtu for Hg. Thus, annual and ozone season net generation and heat input are required, in addition to the emission tons, for emission rate calculations. (Note that in some cases, a calculated rates was clearly an outlier, outside the range of probable values, so that the rate was assigned a value of 'N/A.')

Plant-level annual generation (in MWh) is almost always obtained from EIA-759 for utility plants and from EIA-860B for nonutility plants . (For plants that are sold/transferred from a utility (a regulated entity) to a nonutility (a nonregulated entity) during the specified year, the net generation from the two different EIA sources is summed, when possible, to obtain a complete year of data.) For large plants with EIA-759 net generation, generation is reported monthly as well as annually, so ozone season generation is calculated by summing up the generation for the five months; otherwise, ozone season generation is calculated as 5/12 of the annual net generation. For plants with EIA-860B annual gross generation, gross generation is converted to net generation at the generator level using EIA's methodology (see an *Electric Power Annual* Technical Notes appendix) and then summed to the plant level. Ozone season net generation is calculated as 5/12 of the annual net generation.

Annual boiler-level heat input (MMBtu) is almost always obtained by multiplying the EIA-767 fuel consumption and heat content and/or by multiplying the EIA-759 fuel consumption and EIA-423 heat content, and summing to the plant-level; or by multiplying the EIA-860B annual plant fuel

consumption and heat content; yet overlaying the heat input obtained from ETS/CEM, if available. For large plants with EIA-759 fuel use and EIA/FERC-423 heat content, fuel use is reported monthly as well as annually, so ozone season heat input is calculated by calculating the monthly heat input for the five months and summing it up; otherwise, ozone season heat input is calculated as 5/12 of the annual heat input. For plants with EIA-860B annual heat input, ozone season heat input is also calculated as 5/12 of the annual heat input.

TREATMENT OF ELECTRICITY GENERATION AND EMISSIONS FROM BIOMASS

Biomass and solid waste burning plants are specifically addressed in eGRID as follows:

Biomass is a fuel derived from organic matter such as wood and paper products, agricultural waste, or methane (e.g., from landfills). eGRID assumes that these materials are subject to the natural carbon cycle and therefore do not contribute to global warming. Generation from the combustion of all biomass is assigned zero emissions of CO_2 because these organic materials would otherwise release CO_2 (or other greenhouse gases) through decomposition.

Emissions from generation powered by renewable methane (landfill gas and digester gas) are treated as a special case in eGRID with respect to NO_x and SO_2. Landfill gas and digester gas emissions must be flared in most cases if the gas is not consumed as useful energy.

Prior to the 1999 data year, eGRID did not account for incremental NO_x emissions associated with using renewable methane to generate electricity. For data years 1996 through 1998, generation from landfill methane and digested gas was assigned zero NO_x emissions, reflecting the assumption that NO_x emissions from the generator were equivalent to those from flaring the methane.

For 1999 and 2000 data, eGRID determines the amount of incremental NO_x emissions attributable to utilizing renewable methane to generate electricity. For 1999 and 2000 data, eGRID assumes that renewable methane such as landfill gas or digester gas would have been flared if not used to generate electricity. This generation is then assigned the appropriate NO_x emission factor, e.g., for a boiler or internal combustion engine or turbine. These emissions are then offset by the amount of emissions represented by a typical flare, which is assumed to be 40 lbs per MMBtu of methane, 20 lbs per MMBtu of landfill gas, and 26 lbs per MMBtu of methane for digester gas. SO_2 emissions for all years are assumed to be the same as the flare's and are therefore assigned a value of zero.

TREATMENT OF ELECTRICITY GENERATION AND EMISSIONS FROM SOLID WASTE

Solid waste typically consists of a mixture of renewable materials (biomass such as wood, paper, and food waste) and non-renewable materials (fossil-based materials such as plastics and tires) and, therefore, requires special treatment in eGRID. Beginning with 1998 data, eGRID2002 applies a standard assumption that 70 percent of the heat value of the waste stream comes from renewable materials and 30 percent comes from non-renewables.[1] Generation from solid waste is assigned to 'biomass' and 'other fossil' categories according to this ratio. As with all biomass generation, the

[1]The assumption that 70 percent of the heat value in the waste stream of solid waste combustion facilities is widely used by industry and government sources. This assumption is further supported by the following three studies that addressed this question and found the renewable percentage of the heat value to be 66.6 percent, 69.0 percent, and 71.1 percent, respectively: Central Maine Power, "Renewable Percentage from Municipal Solid Waste," March 1997; Maine Waste Management Agency, Office of Planning, "State of Maine Waste Management and Recycling Plan," April 1993; Massachusetts Institute of Technology Energy Laboratory, "Alternative Electrical Energy Sources for Maine - Conversion of Solid Wastes," Report No. MIT-El 77-010, December 1977.

renewable portion of solid waste is assumed to have zero CO_2 emissions, but other emissions are reported based on appropriate emission factors. Generation from supplemental fossil fuels co-fired with solid waste is identified if known and reflected in emission rates.

For data years 1999 and 2000, EPA has developed SO_2, NO_x, and Hg emissions for large municipal waste combustors (EPA, 2002).[2] These data replace emissions estimated using the amount of fuel and AP-42 emission factors.

Note that emissions from solid waste facilities in 1998, 1999, and 2000 are not comparable to those for prior years. eGRID previously assigned zero emissions to all solid waste combustion facilities. In response to comments from eGRID users, eGRID2002 assigns actual emissions and emission factors to waste-to-energy facilities.[3] Furthermore, previously confidential plant-specific generation and fuel consumption data now enable EPA to calculate emissions by fuel type. eGRID2002, therefore, reports positive emissions for all solid waste facilities in 1998, 1999, and 2000, subject to the biomass adjustment for CO_2 emissions described above. Data users who wish to assign all emissions to the incineration process may adjust solid waste facility emissions to zero.

TREATMENT OF COMBINED HEAT & POWER (CHP)

Combined heat & power (CHP) is a type of generating facility that produces electricity and another form of useful thermal energy (such as heat or steam), used for industrial, commercial, heating, or cooling purposes. CHP, also known as cogeneration, converts energy more efficiently than facilities that produce heat and electricity individually. CHP facilities are identified by the CHPFLAG in EGRDPLNT spreadsheet, and the CHP note on the "Plant" screen of the eGRID2002 data browser. For CHP facilities, emissions reported in eGRID represent electricity generation only, excluding emissions associated with useful thermal output. Thus, a facility's emissions data reported in eGRID may be different from that reported in other EPA sources.

Furthermore, 1998, 1999, and 2000 electricity emissions for CHP are calculated using a different allocation factor than in prior years. For CHP facilities in 1998-2000 data years, eGRID allocates emissions between electricity and thermal output using an electric allocation factor that discounts the value of useful thermal output by 50 percent.[4] This method is designed to share CHP's efficiency gains between electricity and useful thermal output. Previous to 1998, eGRID data relied on an EIA allocation methodology that does not recognize CHP efficiency gains in reporting electricity emissions. The

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[2]For 65 plants, 4 of which are utilities, MWC emissions were developed. Three plants operated only part of the year, so EPA estimated emissions as if they operated for the entire year. For purposes of eGRID, we recalculated those emissions to reflect the actual emissions for that year by multiplying the given emissions by the ratio of the actual MWC burned to EPA's estimated amount that could have been burned.

[3]This treatment in eGRID2002 reflects an assumption that solid waste generation facilities were built, in part, for the purpose of generating electricity. Earlier editions of eGRID had assumed that such facilities were built solely for solid waste incineration and therefore assigned no emissions to electricity production.

[4]An allocation factor that discounts useful thermal output by 50 percent has been used previously by the Federal Energy Regulatory Commission (in PURPA rules), by EPA (for New Source Performance Standards for NO_x), and by several State and regional environmental bodies. This allocation is consistent with current technology whereby steam is converted to electricity at approximately 50 percent efficiency.

original[5] EIA allocation methodology is described in U.S. Energy Information Administration, *Electric Power Annual 1999, Volume II*, p. 108, under "Emissions for the Production of Electricity Methodology."

For 1998-2000 data years, the CHPFLAG can have one of four values to designate a CHP facility:

U	=	Useful thermal output provided by utility or nonutility
A	=	Nonutility provided information about the application of its useful thermal output (although none reported)
B	=	Nonutility identified as a bottom-cycling system with useful thermal output (although none reported)
C	=	Utility reported that at least one of its generators was a cogen (although no useful thermal output reported)

If CHPFLAG = "U", the electric allocation factor is calculated as the ratio of the electricity heat output to the sum of the electricity and steam heat outputs.

If CHPFLAG = "A", "B", or "C", useful thermal output is unknown, so the electric allocation factor must be estimated using default values. The electric allocation factor is back calculated from the equation for determining CHP plant heat rate (= electric allocation factor * 1000 * heat input/net generation). Since the median plant nominal heat rate of the CHPFLAG = "U" plants is about 8500 Btu/kWh, that value plus the unadjusted plant heat input and the plant net generation were used to determine the electric allocation factor for those CHP plants without useful thermal output values. Thus the electric allocation factor for plants with CHPFLAG = "A", "B", or "C" is calculated as:

(8500 * plant net generation)/(1000 * unadjusted plant heat input).

For these plants, useful thermal output, power to heat ratio, and plant nominal heat rate are each given a value of "N/A."

TREATMENT OF PLANT OWNERSHIP

Pechan created a "Sold File" consisting of all utility plants transferred or sold to nonutilities from January 1, 1998 through December 31, 2002. The major source for this Sold File is EIA's "Sold List." It is supplemented by the recently revised 2000 EIA-860A generator status field of "SD" (=Sold), by more recent EIA information, and by documented information from State/local agencies or the trade press. This Sold File overrides any ownership information provided in the EIA-860A utility or EIA-860B nonutility survey. Note that the EIA-860B designates only one owner per plant, while the EIA-860A may designate as many as ten owners per generator.

Since ownership is reported only in eGRID on the plant level, for unsold plants in the EIA-860A utility file, the generators' owner companies and percentages must be aggregated to the plant level, which is accomplished for each plant by MW-weighting each generator's ownership and then summing to the plant level.

Unfortunately, there are some plants for which this methodology will result in misleading

[5]EIA's current methodology for allocating fuel at CHP facilities is described in EIA's *Annual Energy Review 2002*, Appendix H, p.16.

percentages. For example, if one company owns only one of several generators and that one generator is connected to a "clean" boiler that has emissions whose ratio to the entire plant's emissions is much less than its MW's ratio to the entire plant's MW, that one company will, because of its MW-to-plant MW ratio, have a higher plant ownership percentage attributed to it than its actual emissions plant percentage; thus, that company will be associated with greater emissions than it actually has.

This situation is not typical since most plants do not have "jointly owned" generators or different owners for all the plant's generators. It affects only some plants and companies and some percentage of emissions and generation associations in this situation. One example that does not benefit from this methodology is Ohio's Cardinal plant (ORISPL=2828) which has 3 generators (with about the same MW) associated one-to-one with 3 boilers. One generator is owned by Ohio Power, and two by Buckeye Power Inc. Thus, the Cardinal plant ownership is approximately 33 percent Ohio Power and 66 percent Buckeye, so 67 percent of the emissions would be attributable to Buckeye Power using eGRID methodology. However, the SO_2 emissions for the 2 boilers associated with Buckeye's 2 generators combined actually account for less than Ohio Power's 1 boiler-generator's SO_2 emissions so that the SO_2 emissions from Cardinal actually are less than 50 percent of the plant total. Note that these misleading emissions for SO_2 are not duplicated for Cardinal's NO_x or CO_2 emissions.

ESTIMATED STATE IMPORT/EXPORT DATA, 1994 - 2000

eGRID2002 reports estimates of annual net imports (in MWh) by State for seven consecutive years, 1994 through 2000. Because power is not generally metered where it crosses State lines, State imports and exports cannot be measured with precision. However, eGRID provides an estimate of annual net imports by State, based on the relationship between the level of electricity generation and consumption in each State.

eGRID's estimates of net imports by State provide a useful tool for analyzing changes in electricity markets since the beginning of industry restructuring in 1994. In particular, these data can be used to document changes in imports/exports that could have implications for a State or region's air emissions from power generation. Because adjacent or nearby States can have markedly different emission profiles, a relative shift in generation from one State to another could cause a significant change in total air emissions.

For each State, eGRID estimates annual net imports, which consists of gross imports minus gross exports, expressed in megawatt-hours (MWh). This value is also expressed as a percent in two different ways. First, estimated net imports are expressed as a percent of each State's total consumption. Second, net exports (the opposite (negative) of net imports) is expressed as a percent of each State's total net generation. Thus, one percentage will be positive while the other is negative. Since negative percentages are difficult to understand, positive net imports are best expressed as a percentage of total consumption. Negative values for net imports are best expressed as positive net *exports*, as a percentage of total net generation.

eGRID's methodology for estimating net imports by State is based on a mathematical algorithm that reflects the relationship between a State's net generation and total consumption, adjusted to reflect system losses and net foreign imports.[6] First, each State's annual utility and nonutility net generation are summed and adjusted for any net foreign imports into (or out of) the State. Next, the sum of all

[6]All data are obtained from EIA, except net foreign imports, which come from the U.S. Department of Energy (DOE) form FE781R. Net foreign imports represent metered flows across the borders with Canada and Mexico.

electricity consumption in the State, including utility sales, deregulated sales, and electricity used by utility electric departments or furnished without charge is calculated.[7]

States are then grouped into five U.S. power grids, with each entire State assigned to the power grid in which most of its electricity is generated. The power grids are:

Eastern Grid (36 States plus D.C.)
Western Grid (11 States)
Alaska
Hawaii
Texas

Each grid is known to have little or no interchange with adjacent grids, functioning as a self-contained power system. For each grid as a whole, total net generation is adjusted for gross system losses so that it is equivalent to total consumption. At the State level, however, differences between net generation and total consumption remain because of imports/exports across State lines within each grid.[8]

In order to estimate the level of net imports for each State, the following calculations are made: Net generation (adjusted for net foreign imports) and total consumption are each summed by grid. For each grid, a "gross loss factor" is calculated, representing the grid's total net generation plus imports minus total consumption, divided by total net generation. Gross losses include line losses, theft, nonutility energy furnished without charge, and any other energy that is not accounted for. Gross loss factors in eGRID are typically around 10 percent.

Each State's total net generation is then adjusted for gross losses, based on the gross loss factor for the grid to which it is assigned. Note that for each grid, adjusted total net generation (excluding net foreign imports) will precisely equal total consumption. Once total net generation has been adjusted to be equivalent to total consumption for each grid, the remaining differences between a State's adjusted total net generation and its total consumption represent its net imports/exports.

Each State's *adjusted* total net generation (excluding net foreign imports) is then subtracted from its total consumption to produce estimated net imports. A positive value indicates that the State was a net importer during the year. A negative value indicates the State was a net exporter. When all State estimated net import values (positive and negative) are summed for a given year, the residual is equivalent to total U.S. net imports from Canada and Mexico.

eGRID's State import/export methodology contains a number of simplifying assumptions. First, it assumes no interchange between power grids, even though the Eastern Grid does exchange small amounts of power with the Western Grid and Texas through direct current tie lines. Second, whole States are assigned to grids, even though several States, such as Texas, South Dakota, and Montana, actually straddle two or more power grids. Third, it assumes the same gross loss factor for all States within a grid, whereas individual States' gross losses vary from the grid average. Despite these limitations, eGRID's estimates of State net imports should be consistent over time and provide a useful tool for analyzing changing electricity markets.

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[7]Nonutility energy furnished without charge is excluded from this calculation, as these data were kept confidential by EIA prior to 1998.

[8]Except for Alaska and Hawaii, which have no outside physical connections.

INTERCHANGE DATA, 1994 - 1998

eGRID2002 reports interchange of electricity between adjacent power grid regions, both for power control areas (PCAs) and NERC regions, for five consecutive years, 1994 through 1998 with data configured for eGRID2000. Interchange values represent measured energy flows between regions of the grid during a calendar year, measured in megawatt-hours (MWh). eGRID reports interchange by U.S. grid regions with adjacent Canadian and Mexican regions, as reported by U.S. regions.

Due to resource constraints, interchange data included in eGRID2002 has not been updated to include additional years of data and is, therefore, identical to the interchange data included in eGRID2000 (Versions 1 and 2). Raw interchange data for years subsequent to 1998 are available from the Federal Energy Regulatory Commission (FERC) web site.

eGRID provides three interchange variables representing actual (not scheduled) interchange between grid regions as measured by system operators. The three interchange variables are:

1) energy received (from an adjacent region);
2) energy delivered (to the adjacent region); and
3) net interchange (energy received less energy delivered).

The first two variables are reported by PCAs to the Federal Energy Regulatory Commission (FERC) on Form FERC-714, Schedule 5, in columns (e) and (f), respectively. The third variable is calculated from the first two. NERC interchange values reported in eGRID are sums of interchange values of the NERC region's component PCAs.

Changes in interchange over time reflect geographic changes in electricity generation and electricity demand. Such changes may lead to changes in emissions of air pollutants in one region compared to another. eGRID2002 provides a time series of interchange data to allow for temporal analysis of inter-regional power flows. In order to facilitate intertemporal comparisons, eGRID has reconfigured all PCA interchange data for 1994 through 1998 according to the current structure of the U.S. power grid as of December 31, 2000.

Because all interchange involves two parties, interchange values are generally reported twice: once by the reporting PCA and once by the adjacent PCA. In theory, the value reported by a reporting PCA should be the opposite (negative) of the value for the same transaction reported by the adjacent PCA. However, there are many examples where these values do not match as they should in theory. Failure to match could be caused by reporting errors (such as improper signs, mathematical errors, accounting errors, or measurement errors), or it could be due to something as simple as differences in time zones for the reporting entities.

For convenience of data users, eGRID's interchange spreadsheets provide color-coded side-by-side displays of interchange values reported by both the reporting entity(ies) and adjacent entity(ies). Where data for reporting and adjacent entity(ies) match, the values in the columns with the same color should be identical, except for the sign of the net interchange values. Furthermore, both the eGRID spreadsheets and data browser provide a "match" variable that indicates the closeness of the match between the reporting and adjacent entity(ies).

The assembly of eGRID's interchange files utilized several sources of data. Because Form 714 is available from FERC only in hard copy format, EPA obtained electronic files of Form 714 data from Resource Data International (RDI). When PCA reports were missing from the electronic files, hard

copies of Form 714 obtained from FERC were used. Interchange data were also obtained directly from the Southeastern Power Administration, which is exempted from filing Form 714.

The interchange data were subjected to extensive quality assurance/quality control procedures. Obvious reporting errors such as incorrect signs and misplaced data were corrected.

Additional data reported on Form 714 that are not reported in eGRID include: annual scheduled interchange by adjacent PCA, and monthly net generation and net actual interchange for the reporting PCA.

Accessing Raw Interchange Data from FERC Form 714

Raw interchange data for subsequent years filed by individual power control areas on Form 714 can be obtained from the Federal Energy Regulatory Commission at www.ferc.com/ferris.htm. For each control area filing FERC-714, interchange data with adjacent control areas are reported on Part II - Schedule 5, near the end of each form. Schedule 5 reports actual interchange "received" (column e) and "delivered" (column f). "Net" interchange may be calculated as energy received less energy delivered. Interchange data between NERC regions must be developed by summing interchange data for all component control areas (as listed in eGRID). Electronically scanned sideways images of FERC Form 714s filed by power control areas and planning areas are available on-line beginning with calendar year 1999, via FERC's web site: www.ferc.gov. (Note that only control areas file Schedule 5, not planning areas.) For instructions on how to access individual Form 714s, contact FERC's Public Reference Room: (202) 208-1371; public.reference@ferc.gov. Alternatively, a data base of interchange data derived from FERC-714 forms is commercially available from Platts Global Energy (formerly RDI) in Boulder, Colorado at www.platts.com.

SECTION 4
DESCRIPTION OF DATA ELEMENTS

For 1999 and 2000 data, eGRID2002 has 37 subfiles. The first 15, containing over 1,100 different data elements, are called aggregation subfiles, with names based on the aggregate level and, if appropriate, whether they are aggregated on an owner or location basis. The subfiles are named EGRDBLR, EGRDGEN, EGRDPLNT, EGRDST, EGRDEGCO, EGRDEGCL, EGRDPRO, EGRDPRL, EGRDPCAO, EGRDPCAL, EGRDSRO, EGRDSRL, EGRDNRCO, EGRDNRCL, and EGRDUS, and contain 46, 19, 157, 93, 101, 101, 94, 93, 101, 124, 91, 91, 96, 119, and 94 variables, respectively. The sixteenth subfile, EGRDBMSW, is not included for 1999 or 2000 data. The seventeenth through twentieth subfiles are Note subfiles named EGRDPLCH, EGRDEGCH, EGRDPRCH, and EGRDPCCH, and contain 14 variables each.

The twenty-first through twenty-seventh (State Import-Export) subfiles, EGSTIE94 through EGSTIE00, have 18 variables and can be linked to the fourth subfile, EGRDST. The twenty-eighth subfile, EGRDUSGC, has 49 variables and can be linked to the fifteenth subfile, EGRDUS.

The last ten (Interchange) subfiles are EGPINT94 through EGPINT98 which have 15 variables each, and EGNINT94 through EGNINT98, which have 10 variables each. They can be linked (for 1998 data only) to EGRDPCAO and/or EGRDPCAL, and EGRDNRCO and/or EGRDNRCL, respectively.

Table 1 provides file structures for the eGRID2002 combined data years, which include variable descriptions and data sources. For variables whose data values are unavailable, a value of “N/A” is used.

THE EGRDBLR FILE

There are 46 variables in the first subfile, EGRDBLR, which contains primarily utility boiler-level data.

1. **eGRID2002 2000 File Boiler Sequence Number (SEQBLR00) –**
   The boiler records in this 2000 data file are sorted by State postal code abbreviation, plant name, plant code, and boiler ID, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Boiler Sequence Number (SEQBLR99) –**
   The boiler records in this 1999 data file are sorted by State postal code abbreviation, plant name, plant code, and boiler ID, and are assigned a unique sequential number beginning with 1.

3. **State Abbreviation (PSTATABB) –**
   This field contains the postal code abbreviation of the State where the plant is located.
   Sources: EIA-767, EIA-860A, EIA-860B

THE EGRDBLR FILE

4. Plant Name (PNAME) –
The 60-character name associated with each plant, as reported to the EIA-860A or EIA-860B (or EIA-759).
Sources: EIA-860A, EIA-767

5. DOE/EIA ORIS Plant or Facility Code (ORISPL) –
This plant code was originally developed for utility plants by the Office of the Regulatory Information System (ORIS), which was a part of the Federal Power Commission. It is now assigned by EIA and is used as a unique plant identification code for many EPA electric power data bases, too. If a boiler from a given plant has "moved" to another (existing or new) plant, the ORISPL plant code will have been updated in this file. If the plant code has a value less than 9999, the plant data have been originally filed with EIA on Form EIA-767 and/or EIA-860A. If the plant code has a value of at least 10000, the plant (or facility) data have been filed with EIA on Form EIA-860B. If a utility boiler has been sold to a nonutility, it should retain its ORIS code, with a few exceptions (Chena, Indian River, and Astoria). One plant code, that of Laramie River, has been altered (see the Specific ID and Name Changes section for details).
Sources: EIA-767, EIA-860A, EIA-860B

6. Boiler ID (BLRID) –
This right-justified character code identifies the boiler (in the fossil-fuel steam unit case) or gas- or oil-burning turbine (in the new simple combustion turbine case). In the majority of cases, there is a 1-to-1 correspondence with the generator ID. The source of the boiler identification code is Form EIA-767, ETS/CEM, or a report from the utility (if there was no Form EIA-767 filled out). Boiler IDs that have changed have been updated in this file. If small, planned, or other units do not have an assigned boiler code, a default value of two asterisks followed by the generator ID is used until the boiler is on-line and is assigned an actual BLRID.
Sources: EIA-767, ETS/CEM

7. Affected Flag (AFFECTED) –
For 1998, 1999, and 2000 data years, this field indicates whether the boiler reports ETS/CEM data either annually or for the ozone season under Title IV of the Clean Air Act Amendments of 1990 (=“Y”) or not (=“N”).
Source: ETS/CEM

THE EGRDBLR FILE

8. Boiler Bottom and Firing Types (BOTFIRTY) –

For 1998, 1999, and 2000 data years, this field has a meaningful value. The field is four characters in length, with the first two designating the bottom type and the last two representing the firing type of the boiler. Possible values are:

DBAF = Dry bottom arch firing
DBCF = Dry bottom concentric firing
DBCY = Dry bottom cyclone firing
DBDB = Dry bottom duct burner
DBFB = Dry bottom fluidized bed firing
DBFF = Dry bottom front firing
DBOF = Dry bottom opposed firing
DBOT = Dry bottom other
DBRF = Dry bottom rear firing
DBSF = Dry bottom side firing
DBSS = Dry bottom spreader stoker
DBTF = Dry bottom tangential firing
DBVF = Dry bottom vertical firing
WBAF = Wet bottom arch firing
WBCY = Wet bottom cyclone firing
WBFF = Wet bottom front firing
WBOF = Wet bottom opposed firing
WBTF = Wet bottom tangential firing
WBVF = Wet bottom vertical firing

Source: ARDB

9. Boiler Capacity (BOILCAP) –

This field, based on steam flow, contains the estimated boiler design capacity in MMBtu/hr of (primarily) utility boilers.
Sources: EIA-767, Trends NET steam utility component

10. Number of Associated Generators (NUMGEN) –

This field provides the number of generators associated with each (primarily) utility boiler in the file.
Source: EIA-767

THE EGRDBLR FILE

11. Primary Boiler Fuel (FUELB1) --
This field specifies the primary fuel reported to the EIA-767 or EPA's ETS/CEM. Possible choices are:

C	=	Coal
D	=	Diesel oil
G	=	Gas
O	=	Oil
O/G	=	Oil and Gas
OIL	=	Residual or distillate oil
OTH	=	Other
R,SW	=	Refuse, Solid Waste
W	=	Wood (biomass)

Sources: ETS/CEM, Trends NET steam utility component

12. Hours Connected to Load (LOADHRS) –
This field indicates the reported number of hours per year that the utility boiler operates.
Source: EIA-767

13. Boiler Annual ETS/CEM Heat Input (HTIEAN) –
This field, in MMBtu, is the estimated annual boiler heat input assigned by EPA/CAMD, based on the values reported to EPA's ETS/CEM. When not available, it is zero.
Source: ETS/CEM

14. Boiler Ozone Season ETS/CEM Heat Input (HTIEOZ) –
This field, in MMBtu, provides the ozone season boiler heat input, based on the values reported to EPA's ETS/CEM. If ETS/CEM ozone season data are not available, but ETS/CEM annual data are, then the value in this field is calculated as 5/12 of the annual value. Otherwise, the value is zero.
Source: ETS/CEM

15. Boiler Annual Total EIA-Based Calculated Heat Input (HTIFAN) –
This field, in MMBtu, provides the total annual heat input, calculated using EIA-767, EIA-759 and FERC-423, or EIA-860B data when available. When not available, it is zero.

16. Boiler Ozone Season EIA-Based Calculated Heat Input (HTIFOZ) –
For 1998, 1999, and 2000 data years, this field, in MMBtu, provides the ozone season boiler heat input, calculated using EIA-based data, when it is available. If EIA-based ozone season data are not available, but EIA-based annual data are, then the value in this field is calculated as 5/12 of the annual value. Otherwise, the value is zero.

17. Boiler Annual EIA-Based Calculated Coal Heat Input (HTICL) –
This field, in MMBtu, provides the portion of HTIFAN derived from coal.

18. Boiler Annual EIA-Based Calculated Oil Heat Input (HTIOL) –
This field, in MMBtu, provides the portion of HTIFAN derived from oil.

THE EGRDBLR FILE

19. Boiler Annual EIA-Based Calculated Gas Heat Input (HTIGS) –
This field, in MMBtu, provides the portion of HTIFAN derived from gas.

20. Boiler Annual EIA-Based Calculated Biomass/Wood Heat Input (HTIBM) –
This field, in MMBtu, provides the portion of HTIFAN derived from biomass.

21. Boiler Form EIA-767-Based Calculated Solid Waste Heat Input (HTISW) –
For 1996 and 1997 data years, this field, in MMBtu, provides the portion of HTIFAN derived from solid waste. There will be no value for nonutilities since no information about fuel type or prime mover is now available.

22. Boiler Annual EIA-Based Calculated Other Fuel Heat Input (HTIOT) –
For 1998, 1999, and 2000 data years, this field, in MMBtu, provides the portion of HTIFAN derived from fuels other than those referred to in #16-19.

23. Boiler Annual Best Heat Input (HTIBAN) –
This field, in MMBtu, contains the "best" boiler annual heat input value by taking HTIEAN as its value, if it exists; otherwise, HTIFAN's value is used.

24. Boiler Ozone Season Best Heat Input (HTIBOZ) –
This field, in MMBtu, contains the "best" boiler ozone season heat input value by taking HTIEOZ as its value, if it exists; otherwise, HTIFOZ's value is used.

25. Boiler Annual ETS/CEM NO_x Emissions (NOXEAN) –
This field, in tons, is the estimated annual boiler NO_x emissions assigned by EPA/CAMD based on the values reported to EPA's ETS/CEM. When not available, it is zero.
Source: ETS/CEM

26. Boiler Ozone Season ETS/CEM NO_x Emissions (NOXEOZ) –
This field, in tons, is the estimated ozone season (May through September) boiler NO_x emissions based on values reported to EPA's ETS/CEM. If ETS/CEM ozone season data are not available, but ETS/CEM annual data are, then the value in this field is calculated as 5/12 of the annual value. Otherwise, the value is zero.
Source: ETS/CEM

27. Boiler Annual EIA-Based Calculated NO_x Emissions (NOXFAN) –
This field, in tons, is the estimated annual boiler NO_x emissions calculated from EIA-reported data and AP-42 emission factors. When not available, it is zero.

28. Boiler Ozone Season EIA-Based Calculated NO_x Emissions (NOXFOZ) –
This field, in tons, is the estimated ozone season boiler NO_x emissions calculated from EIA-reported data and AP-42 emission factors. If EIA-based ozone season data are not available, but annual EIA-based data are, then the value in this field is calculated as 5/12 of the annual value. Otherwise, the value is zero.

THE EGRDBLR FILE

29. Boiler Annual ETS/CEM SO_2 Emissions (SO2EAN) –
This field, in tons, is the estimated annual boiler SO_2 emissions assigned by EPA/CAMD based on the values reported to EPA's ETS/CEM. When not available, it is zero.
Source: ETS/CEM

30. Boiler Annual EIA-Based Calculated SO_2 Emissions (SO2FAN) –
This field, in tons, is the estimated annual boiler SO_2 emissions calculated from EIA-reported data and AP-42 emission factors. When not available, it is zero.

31. Boiler Annual ETS/CEM CO_2 Emissions (CO2EAN) –
This field, in tons, is the estimated annual boiler CO_2 emissions assigned by EPA/CAMD based on the values reported to EPA's ETS/CEM. When not available, it is zero.
Source: ETS/CEM

32. Boiler Annual EIA-Based Calculated CO_2 Emissions (CO2FAN) –
This field, in tons, is the estimated annual boiler CO_2 emissions calculated from EIA-reported data and carbon coefficients. When not available, it is zero.

33. Source of "Best" Heat Input, NO_x, SO_2, and CO_2 Data (SRCBEST) –
This field describes the one source of the "best" variables (HTIBAN, NOXBAN, SO2BAN, CO2BAN, HTIBOZ, NOXBOZ) -- either F (="EIA-based data") or E (="ETS/CEM"). This value is not available for the 1996 data year.

34. Boiler Annual Best NO_x Emissions (NOXBAN) –
This field, in tons, contains the "best" boiler annual NO_x value by taking NOXEAN as its value, if it exists; otherwise NOXFAN's value is used.

35. Boiler Ozone Season Best NO_x Emissions (NOXBOZ) –
This field, in tons, contains the "best" boiler ozone season NO_x value by taking NOXEOZ as its value, if it exists; otherwise NOXFOZ's value is used.

36. Boiler Annual Best SO_2 Emissions (SO2BAN) –
This field, in tons, contains the "best" boiler annual SO_2 value by taking SO2EAN as its value, if it exists; otherwise SO2FAN's value is used.

37. Boiler Annual Best CO_2 Emissions (CO2BAN) –
This field, in tons, contains the "best" boiler annual CO_2 value by taking CO2EAN as its value, if it exists; otherwise CO2FAN's value is used.

THE EGRDBLR FILE

38. SO_2 (Scrubber) Control Device for Utilities (SO2CTLDV) –
For 1998, 1999, and 2000 data years, this field contains the SO_2 control device as reported to EIA. Possible values are:

BR	=	Jet bubbling reactor
CD	=	Circulating dry scrubber
OT	=	Other
PA	=	Packed type
SD	=	Spray dryer type
SP	=	Spray type
TR	=	Tray type
VE	=	Venturi type

Sources: EIA-767

39. NO_x Control Device for Utilities (NOXCTLDV) –
For 1998, 1999, and 2000 data years, this field contains the NO_x control device as reported to EIA. Possible values are:

AA	=	Advanced overfire air
BF	=	Biased firing
CF	=	Fluidized bed combustor
FR	=	Flue gas recirculation
FU	=	Fuel reburning
LA	=	Low excess air
LN	=	Low NO_x burner
NA	=	Not applicable
OA, OV	=	Overfire air
OT	=	Other
SN	=	Selective noncatalytic reduction
SR	=	Selective catalytic reduction

Sources: EIA-767

40. Year 2000 Title IV SO_2 1998 Reallocation Plus Repowering Allowance (T4A00) –
For 1998, 1999, and 2000 data years, this field, in tons, contains, for 2000, the sum of the March 1993 Allocation final rule initial SO_2 allocation, the additional reallocation based on the September 1999 Reallocation final rule, and the November 2000 returned repowering allowances that had been previously withheld.
Source: ATS

41. Year 2010 Title IV SO_2 1998 Reallocation Plus Repowering Allowance (T4A10) –
For 1998, 1999, and 2000 data years, this field, in tons, contains, for 2010, the sum of the March 1993 Allocation final rule initial SO_2 allocation, the additional reallocation based on the September 1999 Reallocation final rule, and the November 2000 returned repowering allowances that had been previously withheld.
Source: ATS

THE EGRDBLR FILE

42. Boiler Year On-Line (BLRYRONL) –
The field provides the four digit boiler year on-line date. This variable is not available for the 1996 data year.
Source: EIA-767

43. Unique Boiler Identifier Originating in NADB, and Continuing in ARDB and IMDB Data Files (BLRSEQ) –
For 1998, 1999, and 2000 data years, this field contains the unique boiler identifier, a sequence number, originating in NADB, and continuing in ARDB and IMDB data files.
Source: IMDB

44. eGRID96 1996 File Boiler Sequence Number (SEQBLR) –
This field contains the boiler sequence number from eGRID96. If it is -99 or N/A, then the boiler was not included in eGRID96.

45. eGRID97 1997 File Boiler Sequence Number (SEQBLR97) –
This field contains the boiler sequence number from eGRID97. If it is -99 or N/A, then the boiler was not included in eGRID97 with 1997 data.

46. eGRID2000 1998 File Boiler Sequence Number (SEQBLR98) –
This field contains the boiler sequence number from eGRID2000. If it is -99 or N/A, then the boiler was not included in eGRID2000 with 1998 data.

THE EGRDGEN FILE

There are 19 variables in the second subfile, EGRDGEN, which contains generator-level data.

1. **eGRID2002 2000 File Generator Sequence Number (SEQGEN00) –**
   The generator records in this 2000 data file are sorted by State postal code abbreviation, plant name, plant code, and generator ID, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Generator Sequence Number (SEQGEN99) –**
   The generator records in this 1999 data file are sorted by State postal code abbreviation, plant name, plant code, and generator ID, and are assigned a unique sequential number beginning with 1.

3. **State Abbreviation (PSTATABB) –**
   This field contains the postal code abbreviation of the State where the plant is located.
   Sources: EIA-860A, EIA-860B, EIA-767

4. **Plant Name (PNAME) –**
   The 60-character name associated with each plant, as reported to the EIA-860A or EIA-860B.
   Sources: EIA-860A, EIA-860B, EIA-767

5. **DOE/EIA ORIS Plant or Facility Code (ORISPL) –**
   This plant code was originally developed for utility plants by the Office of the Regulatory Information System (ORIS), which was a part of the Federal Power Commission. It is now assigned by EIA and is used as a unique plant identification code for many EPA electric power data bases, too. If a boiler from a given plant has "moved" to another (existing or new) plant, the ORISPL plant code will have been updated in this file. If the plant code has a value less than 9999, the plant data have been originally filed with EIA on Form EIA-767 and/or EIA-860A. If the plant code has a value of at least 10000, the plant (or facility) data have been filed with EIA on Form EIA-860B. If a utility boiler has been sold to a nonutility, it should retain its ORIS code, with a few exceptions (Chena, Indian River, and Astoria). One plant code, that of Laramie River, has been altered (see the Specific ID and Name Changes section for details).
   Sources: EIA-860A, EIA-860B, EIA-767

6. **Generator ID or Grouped Identifier (GENID) –**
   The right justified character code in this field identifies the electrical generation unit (generator). For 1996 and 1997, there are no nonutility generators. If a utility generator has been sold to a nonutility after 1997, the nonutility generator ID is used. Note that if there is a group of utility nonsteam units for a given plant, there is one generator ID that is formed by the concatenation of the 2-character prime mover and “#”. This generator ID, representing a group of like utility generators, will not have other values for variables related to a unique generator. For 1996-1998 data, prime movers that have been grouped include hydro, solar, geothermal, wind, and turbines; for 1999 and 2000 data, hydro, solar, geothermal, and nuclear prime movers have been grouped.
   Sources: EIA-860A, EIA-860B, EIA-767

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7. Generator Type (GENTYPE) –

This field identifies whether the generator source is a utility (="UT") or nonutility (="NU") survey data file. This does NOT mean that by the end of the data year, the generator actually is classified by the GENTYPE value. This variable is not available for the 1996 data year.

Sources: EIA-767, EIA-860B

8. Number of Associated Boilers (NUMBLR) –

This field provides the number of utility boilers associated with each utility generator in the file. If the generator has a prime mover of GT, CT, CC, IC, then the value is assumed to be 1.

Source: EIA-767

9. Generator Status (GENSTAT) –

This field indicates the reported generator status at the end of the given year for utilities and nonutilities. Possible values are:

CS	=	Cold storage
MR	=	Proposed for deactivation shutdown status
OP	=	Operating
OS	=	In commercial operation, but out of service
RE	=	Retired
SB	=	Cold stand-by (long-term storage)
SD	=	Sold to nonutility

Sources: EIA-860A, EIA-860B

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10. Prime Mover Type (PRMVR) –

This field indicates the reported generator's electric generator type. Possible choices for the different years are:

Prime Mover	Description	1998 Utility	1998 Nonutility	1999 Utility	1999 Nonutility	2000 Utility	2000 Nonutility
AB	Atmospheric or pressurized fluidized bed combustion	X		X			
CA	Combined cycle steam turbine with supplementary firing	X		X		X	X
CC	Combined cycle - total unit			X		X	
CE	Compressed air energy storage	X		X		X	
CH	Steam turbine, common header	X		X			
CS	Combined cycle - single shaft	X		X		X	X
CT	Combined cycle combustion turbine	X		X		X	X
CW	Combined cycle steam turbine with only waste heat capability	X		X			
FC	Fuel cell	X		X		X	X
GB	Geothermal binary		X		X		
GE	Steam turbine - geothermal	X		X			
GT	Combustion (gas) turbine	X	X	X	X	X	X
HL	Hydraulic turbine - pipeline	X		X			
HY	Hydraulic turbine - conventional	X	X	X	X	X	X
IC	Internal combustion (diesel)	X	X	X	X	X	X
IG	Integrated coal gasification combined cycle	X		X			
JE	Jet engine	X		X			
NB	Steam turbine - boiling water nuclear reactor	X		X			
NP	Steam turbine - pressurized water nuclear reactor	X		X			
OT	Other	X	X	X	X	X	X
PS	Hydraulic turbine - reversible (pumped storage)	X		X		X	X
PV	Photovoltaic	X		X		X	
SF	Steam turbine fluidized bed combustion		X		X		
SO	Solar (photovoltaic)		X		X		
ST	Steam turbine - boiler	X	X	X	X	X	X
WT	Wind turbine	X	X	X	X	X	X

Sources: EIA-860A, EIA-860B

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11. Primary Generator Fuel (FUELG1) –
This field indicates the potential primary fuel reported for the generator. Possible choices are:

AB	=	Agricultural byproducts
AC	=	Anthracite culm
ANT, BIT, COL, LIG, PC, SUB, LPG	=	Coal
BFG	=	Blast-furnace gas
BG	=	Bituminous gob
BL	=	Black liquor
BP	=	Butane (liquid)
BU	=	Butane (gas)
CB	=	Coke breeze
DG	=	Digester gas
DI	=	Diesel
FC	=	Fine coal
FO1, FO2, FO4, DFO	=	Distillate, light fuel oil
GAS, NG	=	Natural gas
GE, GEO, GST	=	Geothermal
HY	=	Hydrogen
JF	=	Jet fuel
KE, KER	=	Kerosene
LB	=	Liquid byproduct
LF, LFG	=	Landfill gas
LW	=	Lignite waste
ME, MTE	=	Methane
MF	=	Multi fuel
MSW	=	Municipal solid waste
MW	=	Medical waste
NU, NUC, UR	=	Nuclear
OBG	=	Other biomass gases
OBL	=	Other biomass liquids
OBS	=	Other biomass solids
OG	=	Other gas
OO	=	Other oil
OTH	=	Other
OW	=	Oil waste
PC	=	Petroleum coke
PET, RFO, FO6	=	Petroleum, heavy, residual oil
PG	=	Propane (gas)
PH	=	Pitch
PL, LPG	=	Propane (liquid)
PP	=	Paper pellets
PS	=	Purchased steam
PT	=	Peat
REF	=	Refuse
RG	=	Refinery gas
RL	=	Red liquor

RT	=	Railroad ties
SB	=	Solid byproducts
SL, SU, SUN	=	Solar
SLW, SM	=	Sludge waste
SNG	=	Synthetic natural gas
SP	=	Sludge oil
SS	=	Spent sulfite
SW	=	Sludge wood
TI, TDF	=	Tires
TO	=	Tall oil
UNK	=	Unknown
UP	=	Utility poles
WA	=	Waste alcohol
WC	=	Waste coal
WD, WW	=	Wood/wood waste
WDL	=	Wood/wood waste liquids
WDS	=	Wood/wood waste solids
WH	=	Waste heat
WN, WND	=	Wind
WOC	=	Waste/other coal
WT, WAT	=	Water

Sources: EIA-860A, EIA-860B

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12. Generator Nameplate Capacity (NAMEPCAP) –
This field indicates the nameplate capacity, in MW, of the generator.
Sources: EIA-860A, EIA-767, EIA-860B

13. Generator Capacity Factor (CFACT) –
This field is calculated at the generator level: (GENNTAN)/(8760 hrs/yr * NAMEPCAP). There is a value only for those generators which have unit generation data (generally not CC, CT, GT, or IC utility generators), and it should be between 0 and 1 exclusive. However, there are outliers.

14. Generator Annual Net Generation (GENNTAN) –
This field is reported net generation in MWh. Note that summing the net generation of the generators in a plant may not provide a value that is the same as the plant generation value, PLNGENAN, since the data sources are often different.
Sources: EIA-767, EIA-860B

15. Generator Ozone Season Net Generation (GENNTOZ) –
This field is the estimated five month ozone season (May-September) generator generation. It is estimated to be (5/12) * GENNTAN.

16. Generator Year On-Line (GENYRONL) –
This field provides the four digit generator year on-line date. This variable is not available for the 1996 data year.
Source: EIA-860A, EIA-860B

17. eGRID96 1996 File Generator Sequence Number (SEQGEN) –
This field contains the generator sequence number from eGRID96. If it is -99 or N/A, then the generator was not included in eGRID96.

18. eGRID97 1997 File Generator Sequence Number (SEQGEN97) –
This field contains the generator sequence number from eGRID97. If it is -99 or N/A, then the generator was not included in eGRID97 with 1997 data.

19. eGRID2000 1998 File Generator Sequence Number (SEQGEN98) –
This field contains the generator sequence number from eGRID2000. If it is -99 or N/A, then the generator was not included in eGRID2000 with 1998 data.

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There are 157 variables in the third subfile, EGRDPLNT, which contains utility and nonutility plant (or facility)-level data. Duplicate plants in both the utility and nonutility data files were identified (and removed from one of the files) whenever verified by EIA. Despite our best efforts, it is possible, however, that duplicates still exist.

1. **eGRID2002 2000 File Plant Sequence Number (SEQPLT00) –**
   The plant records in this data file are sorted by State postal code abbreviation, plant name, and boiler ID, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Plant Sequence Number (SEQPLT99) –**
   The plant records in this data file are sorted by State postal code abbreviation, plant name, and boiler ID, and are assigned a unique sequential number beginning with 1.

3. **State Abbreviation (PSTATABB) –**
   This field contains the two character postal code abbreviation of the State in which the plant is located.
   Sources: EIA-767, EIA-860A, EIA-860B

4. **Plant Name (PNAME) –**
   The 60-character name associated with each plant, as reported to the EIA-860 or EIA-860B.

5. **DOE/EIA ORIS Plant or Facility Code (ORISPL) –**
   This plant code was originally developed for utility plants by the Office of the Regulatory Information System (ORIS), which was a part of the Federal Power Commission. It is now assigned by EIA and is used as a unique plant identification code for many EPA electric power data bases, too. If a boiler from a given plant has "moved" to another (existing or new) plant, the ORISPL plant code will have been updated in this file. If the plant code has a value less than 9999, the plant data have been originally filed with EIA on Form EIA-767 and/or EIA-860A. If the plant code has a value of at least 10000, the plant (or facility) data have been filed with EIA on Form EIA-860B. If a utility boiler has been sold or transferred to a nonutility, it should retain its ORIS code, with a few exceptions (Chena, Indian River, and Astoria). One plant code, that of Laramie River, has been altered (see the Specific ID and Name Changes section for details).

6. **Plant Type (PLTYPE) –**
   This field specifies whether the plant is a utility (="UT") or nonutility (="NU"), based on whether the ORISPL is contained in the EIA-860A (for utilities) or EIA-860B (for nonutilities). A nonutility plant is one that is owned or operated by a corporation, agency, authority, or other legal entity that owns or operates electric generating capacity but lacks a designated franchised service area for the sale of electricity, and its sales of electricity are, therefore, not subject to any regulatory authority. If a plant's ownership is shared between nonutility and utility companies, then the plant is deemed a nonutility plant if the operator is a nonutility company. Otherwise, the plant is a utility plant.

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7. Previously a Utility Plant Flag (PREVUTIL) –
For data years 1998, 1999, and 2000, this field has a value of 1 if the plant has been sold by a utility to a nonutility; it has a value of 0 otherwise.
Source: EIA sold file lists plus updates

8. Change (CHANGE) –
For data years 1998, 1999, and 2000, this field has a value of "Y" if a change has occurred in ownership since 1997 or there is something of note. The value is "N" otherwise. Sold plants are power plants where all or part of the plant has been sold since 1997. Changes in ownership through xxx 2002 for the 1999 and 2000 data years and through December 31, 2000 for the 1998 data year are reflected in eGRID2002.

9. Plant Operator Name (OPRNAME) –
The name associated with each operating utility is contained in this field. For nonutilities, the operator is assumed to be the owner, if no operator name is reported.
Sources: EIA-860A, EIA-860B

10. Plant Operator ID (OPRCODE) –
This field contains the operating company ID. Each operating utility has a unique company code assigned by EIA. For nonutilities, some operator names do not have associated codes assigned by EIA; thus, EPA has uniquely assigned negative integers beginning with -101, -1001, or -2001.
Sources: EIA-860A, EIA-860B

11. Nonutility's Service Area Name (UTLSRVNM) –
This field contains the name of the utility service area (a utility company or EGC) in which the nonutility plant is located. Utility service area is determined by the geographic region within which an electric utility has a franchise to sell electricity subject to regulation by State and/or Federal ratemaking authorities. The utility service area is used to determine the nonutility plant's PCA (unlike utilities, whose PCA is based on who the owner or operator is).

12. Nonutility's Service Area ID (UTLSRVID) –
This field contains the unique ID code associated with each utility service area.

13. Location (Operator)-Based Parent Company ID (OPPRNUM) –
This field contains the plant's operating company's location (operator)-based parent company ID, if there is a parent company. It is zero otherwise. EIA did not assign IDs for most parent companies; thus, for parent companies without IDs, EPA assigned unique negative integer IDs beginning with -7001.

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14. Location (Operator)-Based Parent Company Name (OPPRNAME) –
This field contains the plant's operating company's location (operator)-based parent company name, if there is a parent company. It is blank otherwise. Parent company refers to a company (such as a holding company) that owns one or more operating subsidiaries or divisions (ownership-based) that generate electricity. In the list of companies in the eGRID2002 data browser, parent companies are included and are distinguished by an asterisk following the name. Data for parent companies, however, are found in separate parent company spreadsheets, rather than in the company (EGC) spreadsheets. Where eGRID breaks up a company (such as Pacificorp or Basin Electric) that operates in more than one power control area, the entire company is reported as a parent company. Federal entities (such as USBIA, USBR, and USCE) that consist of several companies are treated as parent companies by eGRID. When a given company is an owner and/or operator of both a utility and a nonutility plant, the company must be split into two distinct companies; however, the split companies are united by making them subsidiaries of a single parent company.

15. Location (Operator)-Based Power Control Area Name (PCANAME) –
This field contains the plant's location (operator)-based PCA name. Power Control Area (PCA) is a portion of an integrated power grid for which a single dispatcher has operational control of all electric generators. For utilities, the identity of the power control area is determined from the respondent for the control area, as reported on FERC-714 or EIA-861. For a nonutility plant, PCA is determined by the reported utility service area in which it is located. eGRID2002 includes 131 actual PCAs, ranging in size from small municipal utilities such as New Smyrna Beach (FL), to large power pools such as the Pennsylvania-Jersey-Maryland (PJM) ISO. Every PCA is contained within a single NERC region. However, some electric generating companies may be split among two or more PCAs. In Alaska, isolated electric utility systems which are not part of an integrated power grid, have been grouped into a nominal PCA called 'Alaska Misc'. In Hawaii, isolated electric utility systems which are not part of an integrated power grid, have been grouped into a nominal PCA called 'Hawaii Misc'. Also, nonutilities that are reported in the EIA-860B to be not connected to the grid, are grouped into a nominal PCA called 'OFF-G'. For utility plants, a location (operator)-based PCA includes all generating plants operated by electric generating companies whose system is dispatched by that power control area, including portions of generating plants owned by generating companies outside the control area. An ownership-based PCA for utilities includes the portions of all generating plants owned by electric generating companies whose system is dispatched by that power control area, including portions of generating plants owned by that generating company outside the control area. For nonutility plants, location- and owner-based PCAs are generally assigned according to the utility service area in which the nonutility plant is physically located. A diagram depicting interconnections between power control areas is available at the following web site: ftp://www.nerc.com/pub/sys/all_updl/oc/opman/ctrl_ner.pdf.

Sources: FERC-714, EIA-861 plus updates

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16. Location (Operator)-Based Power Control Area ID (PCAID) –
This field contains the plant's location (operator)-based PCA ID. The unique identifier is derived, whenever possible, from the company code for the respondent for the control area. There are six negative PCA IDs that were assigned for eGRID:

-1 = Alaska Misc.,
-2 = Hawaii Misc.,
-3 = Off-Grid (called Not Connected Nonutilities or NCNU in eGRID96 and eGRID97),
-4 = California ISO,
-5 = FirstEnergy Corp, and
-6 = Southeastern Power Administration.

Sources: FERC-714, EIA-861 plus updates

17. Location (Operator)-Based NERC Region Acronym (NERC) –
This field contains the plant's location (operator)-based NERC region name. This field includes the acronym for one of the NERC defined regions and is the NERC region associated with the PCA. NERC Region refers to a region designated by the North American Electric Reliability Council (NERC). Each NERC region listed in eGRID represents one of twelve regional portions of the North American electricity transmission grid: ten in the contiguous United States, plus Alaska and Hawaii. (Hawaiian companies are not part of a formal NERC region, but they have been given a designation of 'HI' for purposes of eGRID.) The 12 NERC region names for eGRID and their acronyms are as follows:

- Alaska Systems Coordinating Council (ASCC),
- East Central Area Reliability Coordination Agreement (ECAR),
- Electric Reliability Council of Texas (ERCOT),
- Florida Reliability Coordinating Council (FRCC),
- Hawaiian Islands Coordinating Council (HI),
- Mid-America Interconnected Network (MAIN),
- Mid-Atlantic Area Council (MAAC),
- Mid-Continent Area Power Pool (MAPP),
- Northeast Power Coordinating Council (NPCC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP), and
- Western Electricity Coordinating Council (WECC).

For eGRID purposes, to account for those nonutility plants that are not connected to the grid, a thirteenth NERC region, OFF-G, has been created.

Although some NERC regions include portions of Canada and/or Mexico that are integrated with U.S. grids, eGRID data are limited to generation within the United States.

Sources: EIA-861, EIA-860A plus updates

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18. NERC Number Associated with NERC Region (NERCNUM) –
For 1998, 1999, and 2000 data years, this field contains the unique number associated with the NERC region.
Source: EIA-759

19. eGRID Subregion Acronym (SUBRGN) –
For data years 1998, 1999, and 2000, this field contains the acronym for the eGRID subregion that the plant is included in.

20. eGRID Subregion Name (SRNAME) –
For 1998, 1999, and 2000 data years, this field contains the name of one of the 27 eGRID subregions. The eGRID subregion is generally a subset of the NERC region and is composed of entire PCAs, with the exception of the three New York subregions. An eGRID subregion is often, but not always, equivalent to an IPM subregion. The 27 eGRID subregions are:

- ASCC Miscellaneous (AKMS)
- ASCC Alaska Grid (AKGD)
- ECAR Michigan (ECMI)
- ECAR Ohio Valley (ECOV)
- ERCOT All (ERCT)
- FRCC All (FRCC)
- HICC Miscellaneous (HIMS)
- HICC Oahu (HIOA)
- MAAC All (MAAC)
- MAIN North (MANN)
- MAIN South (MANS)
- MAPP All (MAPP)
- NPCC Long Island (NYLI)
- NPCC NYC/Westchester (NYCW)
- NPCC New England (NEWE)
- NPCC Upstate NY (NYUP)
- SERC Mississippi Valley (SRMV)
- SERC South (SRSO)
- SERC Tennessee Valley (SRTV)
- SERC Virginia/Carolina (SRVC)
- SPP North (SPNO)
- SPP South (SPSO)
- WECC California (CALI)
- WECC Great Basin (NWGB)
- WECC Pacific Northwest (NWPN)
- WECC Rockies (ROCK)
- WECC Southwest (WSSW)

A twenty-eighth eGRID subregion, OFF-G, has been created for eGRID purposes, to account for those nonutility plants not connected to the grid.

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21. Plant FIPS State Code (FIPST) –
This field contains the two digit FIPS State code of the State in which the plant is located.
Source: EIA-860A, EIA-759

22. Plant FIPS County Code (FIPSCNY) –
This field contains the three digit FIPS county code of the county in which the plant is located.
Sources: EIA-860A

23. Plant County Name (CNTYNAME) –
The plant's county name is obtained from Form EIA-860A for utilities. For nonutilities, it is derived based on the plant address and zip code from the EIA-860B.
Sources: EIA-767, EIA-860A

24. Plant Latitude (LAT) –
This field contains the latitude, in degrees to four decimal places, associated with the plant. When not available, the plant's county centroid is used.
Source: EIA-767, update files

25. Plant Longitude (LON) –
This field contains the longitude, in degrees to four decimal places, associated with the plant. When not provided, the plant's county centroid is used.
Source: EIA-767, update files

26. Number of Utility Boilers (NUMBLR) –
For 1998, 1999, and 2000 data years, this field contains the number of utility boilers within a plant.

27. Number of Generators (NUMGEN) –
For 1998, 1999, and 2000 data years, this field contains the number of generators within a plant.

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28. Plant Emissions Source(s) (SOURCEM) –

This field describes the source(s) of emissions data for the plant. The choices are:

T	=	ETS/CEM NO_x, SO_2, and CO_2 emissions reported to EPA;
E	=	Emissions estimated by applying EPA AP-42 emission factors (for NO_x and SO_2)/carbon coefficients (for CO_2) to fuel data from EIA-767, EIA-759, EIA-860B, and FERC-423, or default values;
Z	=	Plant utilizes energy resources with zero emissions; and
W	=	EPA's Year 2000 Large Municipal Solid Waste Combustor (MWC) Boiler Data Base for SO_2, NO_x, and Hg.

EPA's 1999 Mercury ICE is the source of coal Hg data.

For 1996 and 1997 only:

B	=	Generation from biomass other than landfill methane is assigned zero emissions for CO_2 because similar emissions would occur in absence of combustion.
S	=	Generation from solid waste is assigned zero emissions because all emissions are assigned to waste incineration.
L	=	Generation from landfill methane, a form of biomass, is assigned zero emissions because similar emissions result from flaring of methane gas in absence of electricity generation.

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29. Plant Primary Fuel (PLPRIMFL) –

For 1998, 1999, and 2000 data years, this field contains the plant's primary fuel based on maximum heat input or assignment (if plant is solar, wind, nuclear, geothermal, or hydro). Possible choices are:

AB	=	Agricultural byproducts
AC	=	Anthracite culm
BFG	=	Blast-furnace gas
BG	=	Bituminous gob
BIOMASS	=	Biomass
BIT, COL, LIG, SUB	=	Coal
BL	=	Black liquor
CB	=	Coke breeze
DFO, FO1	=	Distillate fuel oil
DG	=	Digester gas
DI	=	Diesel
EF	=	E-fuel
GAS, NG	=	Natural Gas
GE, GEO	=	Geothermal
HY	=	Hydrogen
JF	=	Jet fuel
KE, KER	=	Kerosene
LF, LFG	=	Landfill gas
LW	=	Lignite waste
ME	=	Methane
MSW, MW, MWC	=	Municipal solid waste, refuse
NU, NUC, UR	=	Uranium
OBG	=	Other biomass gases
OG, OTG	=	Other gas
OIL	=	Oil
OO	=	Other oil
OTS	=	Other solids
OW	=	Oil waste
PC	=	Petroleum coke
PS	=	Purchased steam
RFO, PET	=	Residual fuel oil
RT	=	Railroad ties
SL, SUN	=	Solar
SS	=	Spent sulfite liquor
SU	=	Sulfur
TDF, TI	=	Tires
WAT, WT	=	Water
WC	=	Waste coal
WDL, WDS, WW	=	Wood and wood waste
WH	=	Waste heat
WN, WND	=	Wind
WOC	=	Waste/other coal

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30. Plant Fossil Fuel Category (PLFFLCTG) –
For 1998, 1999, and 2000 data years, this field contains a "C" if PLPRIMPL is derived from coal, "O" if it is derived from oil, or "G" if it is derived from gas. The value is blank otherwise. Fossil Fuel refers to any naturally occurring organic fuel, such as petroleum, coal, and natural gas.

31. Plant Capacity Factor (CAPFAC) –
This field contains the plant capacity factor, expressed with two decimal places. It is calculated as follows:
CAPFAC = PLNGENAN/(NAMEPCAP * 8760)
Although the value should be between 0 and 1 inclusive, there are outliers.
This variable is not available for the 1996 data year.

32. Utility Plant Boiler Capacity (BOILCAP) –
This field, based on steam flow, contains the estimated boiler design capacity in MMBtu/hr for most fossil fuel steam utility plants.
Sources: EIA-767, Trends steam utility component

33. Plant Generator Capacity (NAMEPCAP) –
This field contains the nameplate capacity of the plant, in MW.
Sources: EIA-860A, EIA-860B

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34. Combined Heat and Power (CHP) (Cogenerator) Plant Flag (CHPFLAG) –
This field contains a flag to indicate whether the plant is a CHP (cogeneration) plant which reports useful thermal output to EIA, or not when the plant is not a CHP plant). Combined Heat & Power (CHP) is a type of generating facility that produces electricity as well as another form of useful thermal energy (such as heat or steam), used for industrial, commercial, heating, or cooling purposes. CHP, also known as cogeneration, converts energy more efficiently than facilities that produce heat and electricity individually. For CHP facilities, emissions reported in eGRID represent electricity generation only, excluding emissions associated with useful thermal output. Thus, a facility's emissions reported in eGRID may be different from that reported in other EPA sources. Furthermore, from data year 1998 on, electricity emissions for CHP are calculated using a different allocation factor than in prior years. For further information, see the Methodology section.

For 1998, 1999, and 2000 data years, possible CHPFLAG values are:

U	=	Useful thermal output provided by utility or nonutility
A	=	Nonutility provided information about the application of its useful thermal output (although none reported)
B	=	Nonutility identified as a bottom-cycling system with useful thermal output (although none reported)
C	=	Utility reported that at least one of its generators was a cogen/CHP (although no useful thermal output reported)
Blank	=	Does not report that it is a cogen/CHP plant

For 1996 and 1997 data years, possible values are:

1	=	Utility reports it is a cogenerator
0	=	Utility does not report that it is a cogenerator

35. CHP Plant Useful Thermal Output (USETHRMO) –
This field, in MMBtu, contains the useful thermal output reported for CHP nonutilities and the converted (from steam sold) useful thermal output reported for CHP utilities. Useful thermal output refers to the amount of heat produced in a CHP facility that is used for purposes other than making electricity. For 1996 and 1997 data years, utilities reported the amount of steam sold in million pounds. To convert from the amount of steam sold (MM lbs) to useful thermal output (MMBtu), the amount of steam sold was multiplied by 1,200.
Sources: EIA-860B, EIA-767

36. CHP Plant Power to Heat Ratio (PWRTOHT) –
This field contains the power to heat ratio in a CHP facility, which is the ratio of heat value of electricity generated (3412 x kWh output) to the facility's useful thermal output.

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37. CHP Plant Electric Allocation Factor (ELCALLOC) –
This field contains the decimal fraction of the emissions that is attributed to electricity. It is derived as the ratio of the electric heat output to the sum of the electric and steam heat outputs, where the steam output = one half the useful thermal output. The electric allocation factor is used to allocate emissions from a CHP facility between electricity generation and useful thermal output. See CHP in the Methodology section for further information. For non-CHP plants, eGRID uses an electric allocation factor of 1.0.

38. Nonutility Plant Connected to Grid Flag (PLNUCONN) –
This field indicates whether the nonutility plant is connected to the grid (="Y") or not (="N"), as reported to EIA-860B. This field is blank for utilities and those nonutilities that did not report to EIA-860B.
Source: EIA-860B

39. Plant Pumped Storage Flag (PSFLG) –
This field indicates whether the plant has at least one pumped storage generator (=1) or not (=0).
Source: EIA-860A

40. ARD Nonutility Flag (ARDBNU) –
For the 1996 data year, this field identifies whether the plant is a nonutility reporting data to the 1996 ETS/CEM (=1) or not (=2).

41. Nonutility Plant Landfill Methane Or Solid Waste Flag (LMSWFLG) –
For the 1996 and 1997 data years, this field indicates whether the nonutility plant was identified as using landfill methane (=LM) or solid waste (=SW) as its primary fuel. Because fuel type data for nonutilities are kept confidential by EIA previous to 1998, nonutilities burning landfill methane or solid waste were identified, where possible, by another data source. Thus, not all landfill methane and solid waste plants are identified by eGRID.
Sources: LMOP, MWC

42. Plant Nonutility Combustion Flag (PLNUCMBS) –
For the 1996 and 1997 data years, this field indicates whether the nonutility plant combusts fuel (="Y") or not (="N").
Source: EIA-867

43. Plant Nonutility Coal Flag (PLNUCOAL) –
For the 1996 and 1997 data years, this field provides information, if known, that the nonutility plant combusts coal (="Y") or that it does not (="N").
Source: Mercury ICE Data Base

44. Now Nonutility Flag (UTNOWNU) –
For the 1996 and 1997 data years, this field identifies whether the plant is a nonutility reporting data to the 1997 ETS/CEM or EIA utility survey (=1) or not (=2).

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45. Generation Value Source (GENERVAL) –
For the 1996 and 1997 data years, this field identifies whether net generation for the plant is (=1) or is not (=2) available. Plants with GENERVAL=1 include all utility plants and the 11 nonutility plants reporting to ETS/CEM. All other nonutility plants (GENERVAL=2) have no generation data (= -99).

46. Emission Value Source (EMISVAL) –
For the 1996 and 1997 data years, this field indicates whether emissions for the plant are (=1) or are not (=2) available. Plants with EMISVAL=1 include all utility plants, the 11 nonutility plants reporting to ETS/CEM, non-combustion nonutility plants, and nonutility plants burning only landfill methane or solid waste. All the other plants – the remaining nonutility plants (with EMISVAL=2) – will have no emissions data; however, nonutility regional averages for emission rates are displayed.

47. Resource Mix Value Source (RESMXVAL) –
For the 1996 and 1997 data years, this field identifies whether resource mix (fuel type generation percentages) for the plant are (=1) or are not (=2) available. Plants with RESMXVAL=1 include all utility plants, the 11 nonutility plants reporting to ETS/CEM, and nonutility plants burning landfill methane or solid waste. All the other plants – the remaining nonutility plants (with RESMXVAL=2) – will display nonutility regional averages for resource mix.

48. Plant Annual Heat Input (PLHTIAN) –
This field, in MMBtu, takes the plant level total of the best boiler-level annual heat input data – ETS/CEM data if it exists, or EIA-derived data if necessary – as its value. Heat input is the amount of heat energy (in Btus) consumed by a generating plant that combusts fuel. It is calculated as the product of fuel consumption (e.g., tons of coal) and the heat content (e.g., Btu per ton). For CHP plants, the value is multiplied by the electric allocation factor.
Sources: ETS/CEM, EIA-767, EIA-759/FERC-423, EIA-860B

49. Plant Ozone Season Heat Input (PLHTIOZ) –
This field is the five month ozone season (May-September) heat input and, for steam utilities, it is the total of the best boiler-level ozone season heat input data. For nonutilities, if ETS/CEM data are available, then the boiler level data are summed to the plant level; otherwise, it is calculated as 5/12 * annual plant heat input. Ozone season is the five-month period from May through September when excessive levels of ozone, or smog, are most likely to form due to a chemical reaction of nitrogen oxides with other pollutants in the presence of sunlight. For CHP plants, the value is multiplied by the electric allocation factor.

50. Plant Annual Gross Generation (PLGGENAN) –
For data years 1996 and 1997, this field, in MWh, contains the utility plant gross generation reported to EPA's ETS/CEM.
Source: ETS/CEM

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51. Plant Annual Net Generation (PLNGENAN) –
This field is the reported net generation, in MWh, for the plant. For utility plants, the values are primarily based on EIA-759 data. For nonutility plants, most values are based on EIA-860B data.
Sources: EIA-759, EIA-767, EIA-860B

52. Plant Ozone Season Net Generation (PLNGENOZ) –
This field is the five month ozone season (May-September) net generation. For utilities that reported monthly data, it is based on monthly plant generation data. For utilities and nonutilities that only reported annual data, it is calculated as 5/12 * annual plant net generation.
Sources: EIA-759, EIA-767, EIA-860B

53. Plant Annual NO_x Emissions (PLNOXAN) –
For steam utilities, this field is the plant level total of NOXEAN or, if missing, NOXFAN, if it exists. For nonsteam utilities, the plant NO_x emissions is estimated using EIA-759 fuel quantity and AP-42 emission factors. For nonutilities, if ETS/CEM data are available, then the boiler data are summed to the plant level; otherwise, the emissions are estimated using plant-level EIA-860B fuel quantity, AP-42 emission factors, and an assigned control efficiency (based on the reported type of control). NO_x is a product of fossil fuel combustion and is a precursor to formation of ozone, or smog, and also contributes to acid rain and other environmental and human health impacts. For CHP plants, the value is multiplied by the electric allocation factor.
Sources: ETS/CEM, EIA-767, EIA-759/FERC-423, EIA-860B

54. Plant Ozone Season NO_x Emissions (PLNOXOZ) –
For steam utilities, this field is the plant level total of NOXEOZ (from the boiler level), if it exists; otherwise NOXFOZ's total is used. For nonutilities, if ETS/CEM data are available, then the boiler data are summed to the plant level; otherwise, it is calculated as 5/12 * annual plant NO_x emissions. For CHP plants, the value is multiplied by the electric allocation factor.
Sources: ETS/CEM, EIA-767, EIA-759/FERC-423, EIA-860B

55. Plant Annual SO_2 Emissions (PLSO2AN) –
For steam utilities, this field is the plant level total of SO2EAN or, if missing, SO2FAN, if it exists. For nonsteam utilities, the plant SO_2 emissions is estimated using EIA-759 fuel quantity, FERC-423 fuels, sulfur content (or default), and AP-42 emission factors. For nonutilities, if ETS/CEM data are available, then the boiler data are summed to the plant level; otherwise, the emissions are estimated using plant-level EIA-860B fuel quantity, AP-42 emission factors, and an assigned control efficiency (based on the reported type of control). SO_2 is an air pollutant emitted primarily by power plants burning fossil fuels, especially coal, which is a precursor to acid rain and is associated with other environmental and human health impacts. For CHP plants, the value is multiplied by the electric allocation factor.
Sources: ETS/CEM, EIA-767, EIA-759/FERC-423, EIA-860B

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56. Plant Annual CO_2 Emissions (PLCO2AN) –
For steam utilities, this field is the plant level total of CO2EAN or, if missing, CO2FAN, if it exists. For nonsteam utilities, the plant CO_2 emissions is estimated using EIA-759 fuel quantity and carbon coefficients factors. For nonutilities, if ETS/CEM data are available, then the boiler data are summed to the plant level; otherwise, the emissions are estimated using plant-level EIA-860B fuel quantity and carbon coefficients. CO_2 is a product of fossil fuel combustion which is a dominant greenhouse gas believed to contribute to global climate change. For CHP plants, the value is multiplied by the electric allocation factor.
Sources: ETS/CEM, EIA-759/FERC-423, EIA-860B

57. Plant Annual Unadjusted Mercury Emissions (PLHGAN) –
Mercury (Hg) is a toxic heavy metal that is a byproduct of the combustion of fossil fuels, especially coal. Mercury emissions, in lbs, are reported for 1999 only and are based on EPA data for 1999. For 1998 and 2000 data years, mercury emissions are estimated by adjusting the 1999 reported mercury emissions by multiplying by the ratio of the plants' 1998 (or 2000) to 1999 coal tons to reflect each plant's actual generation in 1998 (or 2000). No values are assigned for 1996 and 1997 data years. As plant-specific mercury emissions data are available for coal-fired plants only, Hg data are not reported for other fossil fuels. Aggregated mercury values therefore reflect only coal-fired generation. For CHP plants, the value is multiplied by the electric allocation factor.
Source: Mercury ICE

58. Plant Annual NO_x Output Emission Rate (PLNOXRTA) –
This field, in lbs/MWh, is calculated as follows:
PLNOXRTA = 2000 * PLNOXAN/PLNGENAN.

59. Plant Ozone Season NO_x Output Emission Rate (PLNOXRTO) –
This field, in lbs/MWh, is calculated as follows:
PLNOXRTO = 2000 * PLNOXOZ/PLNGENOZ.

60. Plant Annual SO_2 Output Emission Rate (PLSO2RTA) –
This field, in lbs/MWh, is calculated as follows:
PLSO2RTA = 2000 * PLSO2AN/PLNGENAN.

61. Plant Annual CO_2 Output Emission Rate (PLCO2RTA) –
This field, in lbs/MWh, is calculated as follows:
PLCO2RTA = 2000 * PLCO2AN/PLNGENAN.

62. Plant Annual Mercury Output Emission Rate (PLHGRTA) –
For 1998, 1999, and 2000 data years, this field, in lbs/GWh, is calculated as follows:
PLHGRTA = PLHGAN/(PLNGENAN/1000).

63. Plant Annual NO_x Input Emission Rate (PLNOXRA) –
This field, in lbs/MMBtu, is calculated as follows:
PLNOXRA = 2000 * PLNOXAN/PLHTIAN.

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64. Plant Ozone Season NO_x Input Emission Rate (PLNOXRO) –
This field, in lbs/MMBtu, is calculated as follows:
PLNOXRO = 2000 * PLNOXOZ/PLHTIOZ.

65. Plant Annual SO_2 Input Emission Rate (PLSO2RA) –
This field, in lbs/MMBtu, is calculated as follows:
PLSO2RA = 2000 * PLSO2AN/PLHTIAN.

66. Plant Annual CO_2 Input Emission Rate (PLCO2RA) --
This field, in lbs/MMBtu, is calculated as follows:
PLCO2RA = 2000 * PLCO2AN/PLHTIAN.

67. Plant Annual Mercury Input Emission Rate (PLHGRA) –
For 1998, 1999, and 2000 data years, this field, in lbs/BBtu, is calculated as follows:
PLHGRA = PLHGAN/(PLHTIAN * 1000)

68. Plant Nominal Heat Rate (PLHTRT) –
This field, in Btu/KWh, contains the plant nominal heat rate. It is calculated as follows:
PLHTRT = 1000 * PLHTIAN/PLNGENAN.
For CHP plants, the value is, in effect, multiplied by the electric allocation factor, since the heat input has been.

69. Plant Annual Coal Net Generation (PLGENACL) –
This field, in MWh, contains the plant net generation for coal.
Sources: EIA-759, EIA-860B

70. Plant Annual Oil Net Generation (PLGENAOL) –
This field, in MWh, contains the plant net generation for oil.
Sources: EIA-759, EIA-860B

71. Plant Annual Gas Net Generation (PLGENAGS) –
This field, in MWh, contains the plant net generation for natural gas.
Sources: EIA-759, EIA-860B

72. Plant Annual Nuclear Net Generation (PLGENANC) –
This field, in MWh, contains the plant net generation for nuclear.
Sources: EIA-759, EIA-860B

73. Plant Annual Hydro Net Generation (PLGENAHY) –
This field, in MWh, contains the plant net generation for hydro.
Sources: EIA-759, EIA-860B

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74. Plant Annual Biomass/Wood Net Generation (PLGENABM) –
This field, in MWh, contains the plant net generation for biomass/wood. Biomass is a fuel derived from organic matter such as wood and paper products, agricultural waste, or methane (e.g., from landfills). The renewable portion of solid waste (assumed to be 70 percent of generation) is included as biomass. These materials are subject to the natural carbon cycle and are, therefore, assumed not to contribute to global warming. For 1998, 1999, and 2000 data years, generation from the combustion of biomass is assigned zero emissions of CO_2 because these organic materials would otherwise release CO_2 (or other greenhouse gases) through decomposition, and methane emissions from renewables are assigned zero emissions for all pollutants. For 1996 and 1997 data years, biomass generation is assigned zero emissions for CO_2, NO_x, and SO_2. See Methodology section for more information.
Sources: EIA-759, EIA-860B

75. Plant Annual Wind Net Generation (PLGENAWI) –
This field, in MWh, contains the plant net generation for wind.
Sources: EIA-759, EIA-860B

76. Plant Annual Solar Net Generation (PLGENASO) –
This field, in MWh, contains the plant net generation for solar.
Sources: EIA-759, EIA-860B

77. Plant Annual Geothermal Net Generation (PLGENAGT) –
This field, in MWh, contains the plant net generation for geothermal.
Sources: EIA-759, EIA-860B

78. Plant Annual Other Fossil Net Generation (PLGENAOF) –
For 1998, 1999, and 2000 data years, other fossil includes generation from fossil fuel that cannot be categorized as coal, oil, or natural gas. This category includes generation from tires, chemicals, batteries, hydrogen, sulfur, and waste heat. These fuels are assumed to be derived from fossil fuels rather than renewable fuels.
Sources: EIA-759, EIA-860B

79. Plant Annual Solid Waste Net Generation (PLGENASW) –
Solid waste typically consists of a mixture of renewable materials (biomass such as wood, paper, and food waste) and non-renewable materials (fossil-based materials such as plastics and tires). For 1998, 1999, and 2000 data years, eGRID2002 applies a standard assumption that the heat value of the waste stream comes 70 percent from renewable materials and 30 percent from non-renewables. Generation from solid waste is assigned to 'biomass' and 'other fossil' categories according to this ratio. As with all biomass generation, the renewable portion of solid waste is assumed to have zero CO_2 emissions, but other pollutants are reported based on appropriate emission factors. Generation from supplemental fossil fuels co-fired with solid waste is identified if known and reflected in emission rates. Plant-specific mercury emissions are not currently available for solid waste facilities. For 1996 and 1997 data years, solid waste plants are kept intact and its generation is assigned zero emissions for CO_2. For further information, see the Methodology section.
Sources: EIA-759, EIA-860B

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80. Plant Annual Total Nonrenewables Net Generation (PLGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the plant. Nonrenewables are exhaustible energy resources such as coal, oil, natural gas, and nuclear power.

81. Plant Annual Total Renewables Net Generation (PLGENATR) –
This field, in MWh, contains the total renewable net generation for the plant. Renewables are inexhaustible energy resources such as hydro, wind, solar, geothermal, and biomass. The renewable portion of solid waste (assumed to be 70 percent of generation) is included as biomass.

82. Plant Annual Total Nonhydro Renewables Net Generation (PLGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the plant.

83. Plant Coal Generation Percent (PLCLPR) –
This field, the coal resource mix expressed as a coal generation percent, is calculated as follows:
PLCLPR = 100 * PLGENACL/PLNGENAN.

84. Plant Oil Generation Percent (PLOLPR) –
This field, the oil resource mix expressed as an oil generation percent, is calculated as follows:
PLOLPR = 100 * PLGENAOL/PLNGENAN.

85. Plant Gas Generation Percent (PLGSPR) –
This field, the gas resource mix expressed as a gas generation percent, is calculated as follows:
PLGSPR = 100 * PLGENAGS/PLNGENAN.

86. Plant Nuclear Generation Percent (PLNCPR) –
This field, the nuclear resource mix expressed as a nuclear generation percent, is calculated as follows:
PLNCPR = 100 * PLGENANC/PLNGENAN.

87. Plant Hydro Generation Percent (PLHYPR) –
This field, the hydro resource mix expressed as a hydro generation percent, is calculated as follows:
PLHYPR = 100 * PLGENAHY/PLNGENAN.

88. Plant Biomass/Wood Generation Percent (PLBMPR) –
This field, the biomass/wood resource mix expressed as a biomass/wood generation percent, is calculated as follows:
PLBMPR = 100 * PLGENABM/PLNGENAN.

89. Plant Wind Generation Percent (PLWIPR) –
This field, the wind resource mix expressed as a wind generation percent, is calculated as follows:
PLWIPR = 100 * PLGENAWI/PLNGENAN.

90. Plant Solar Generation Percent (PLSOPR) –
This field, the solar resource mix expressed as a solar generation percent, is calculated as follows:
PLSOPR = 100 * PLGENASO/PLNGENAN.

91. Plant Geothermal Generation Percent (PLGTPR) –
This field, the geothermal resource mix expressed as a geothermal generation percent, is calculated as follows:
PLGTPR = 100 * PLGENAGT/PLNGENAN.

92. Plant Other Fossil Generation Percent (PLOFPR) –
For 1998, 1999, and 2000 data years, this field, the other fossil resource mix expressed as an other fossil generation percent, is calculated as follows:
PLOFPR = 100 * PLGENAOF/PLNGENAN.

93. Plant Solid Waste Generation Percent (PLSWPR) –
For 1996 and 1997 data years, this field, the solid waste resource mix expressed as a solid waste generation percent, is calculated as follows:
PLSWPR = 100 (PLGENASW/PLNGENAN.

94. Plant Unspecified Fossil Generation Percent (PLFSPR) –
For 1996 and 1997 data years, this field, the unspecified fossil resource mix expressed as an unspecified fossil generation percent, is calculated as follows:
PLFSPR = 100 (PLGENAFS/PLNGENAN

95. Plant Unspecified Renewable Generation Percent (PLRWPR) –
For 1996 and 1997 data years, this field, the unspecified renewable resource mix expressed as an unspecified renewable generation percent, is calculated as follows:
PLRWPR = 100 (PLGENARW/PLNGENAN

96. Plant Total Nonrenewables Generation Percent (PLTNPR) –
This field, the total nonrenewables resource mix expressed as a total nonrenewables generation percent, is calculated as follows:
PLTNPR = 100 * PLGENATN/PLNGENAN.

97. Plant Total Renewables Generation Percent (PLTRPR) –
This field, the total renewables resource mix expressed as a total renewables generation percent, is calculated as follows:
PLTRPR = 100 * PLGENATR/PLNGENAN.

98. Plant Total Nonhydro Renewables Generation Percent (PLTHPR) –
This field, the total nonhydro renewables resource mix expressed as a total nonhydro renewables generation percent, is calculated as follows:
PLTHPR = 100 * PLGENATH/PLNGENAN.

99. Plant Owner Name (First) (OWNRNM01) –
This field contains the name of the first plant owner.
Sources: EIA-860A, EIA-860B

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100. Plant Owner Code (First) (OWNRUC01) –
This field contains the unique EIA-assigned number associated with OWNRNM01, with some exceptions. For utilities that are divisions (Citizens Communication, Aquila Networks, Pacificorp, West Plains Energy, Basin Electric Power Coop, and Texas-New Mexico Power Co.), EPA assigned IDs with the original integer followed by a decimal value. For nonutilities, some owner names do not have associated codes designed by EIA; thus, EPA has uniquely assigned negative integers starting with -101 or -1001.
Sources: EIA-860A, EIA-860B

101. Plant Owner Percent (First) (OWNRPR01) –
This field contains the percent of the plant that is owned by OWNRNM01. It is calculated based on reported generator ownership data. If no information on ownership is provided, then it is assumed that the operator has 100 percent ownership.
Source: EIA-860A, updates

102. Plant Owner Type (First) (OWNRTY01) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU"). A nonutility company is one that owns or operates nonutility generation but does not have a franchise in the area(s) in which the nonutility generation is located. Otherwise, the company is a utility company.

103. Plant Owner Name (Second) (OWNRNM02) –
This field contains the name of the second plant owner.
Source: EIA-860A, updates

104. Plant Owner Code (Second) (OWNRUC02) –
This field contains the unique EIA-assigned number associated with OWNRNM02.
Source: EIA-860A, updates

105. Plant Owner Percent (Second) (OWNRPR02) –
This field contains the percent of the plant that is owned by OWNRNM02. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

106. Plant Owner Type (Second) (OWNRTY02) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

107. Plant Owner Name (Third) (OWNRNM03) –
This field contains the name of the third plant owner.
Source: EIA-860A, updates

108. Plant Owner Code (Third) (OWNRUC03) –
This field contains the unique EIA-assigned number associated with OWNRNM03.
Source: EIA-860A, updates

109. Plant Owner Percent (Third) (OWNRPR03) –
This field contains the percent of the plant that is owned by OWNRNM03. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

110. Plant Owner Type (Third) (OWNRTY03) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

111. Plant Owner Name (Fourth) (OWNRNM04) –
This field contains the name of the fourth plant owner.
Source: EIA-860A, updates

112. Plant Owner Code (Fourth) (OWNRUC04) –
This field contains the unique EIA-assigned number associated with OWNRNM04.
Source: EIA-860A, updates

113. Plant Owner Percent (Fourth) (OWNRPR04) –
This field contains the percent of the plant that is owned by OWNRNM04. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

114. Plant Owner Type (Fourth) (OWNRTY04) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

115. Plant Owner Name (Fifth) (OWNRNM05) –
This field contains the name of the fifth plant owner.
Source: EIA-860A, updates

116. Plant Owner Code (Fifth) (OWNRUC05) –
This field contains the unique EIA-assigned number associated with OWNRNM05.
Source: EIA-860A, updates

117. Plant Owner Percent (Fifth) (OWNRPR05) –
This field contains the percent of the plant that is owned by OWNRNM05. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

118. Plant Owner Type (Fifth) (OWNRTY05) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

119. Plant Owner Name (Sixth) (OWNRNM06) –
This field contains the name of the sixth plant owner.
Source: EIA-860A, updates

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120. Plant Owner Code (Sixth) (OWNRUC06) –
This field contains the unique EIA-assigned number associated with OWNRNM06.
Source: EIA-860A, updates

121. Plant Owner Percent (Sixth) (OWNRPR06) –
This field contains the percent of the plant that is owned by OWNRNM06. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

122. Plant Owner Type (Sixth) (OWNRTY06) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

123. Plant Owner Name (Seventh) (OWNRNM07) –
This field contains the name of the seventh plant owner.
Source: EIA-860A, updates

124. Plant Owner Code (Seventh) (OWNRUC07) –
This field contains the unique EIA-assigned number associated with OWNRNM07.
Source: EIA-860A, updates

125. Plant 1 Owner Percent (Seventh) (OWNRPR07) –
This field contains the percent of the plant that is owned by OWNRNM07. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

126. Plant Owner Type (Seventh) (OWNRTY07) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

127. Plant Owner Name (Eighth) (OWNRNM08) –
This field contains the name of the eighth plant owner.
Source: EIA-860A, updates

128. Plant Owner Code (Eighth) (OWNRUC08) –
This field contains the unique EIA-assigned number associated with OWNRNM08.
Source: EIA-860A, updates

129. Plant Owner Percent (Eighth) (OWNRPR08) –
This field contains the percent of the plant that is owned by OWNRNM08. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

130. Plant Owner Type (Eighth) (OWNRTY08) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

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131. Plant Owner Name (Ninth) (OWNRNM09) –
This field contains the name of the ninth plant owner.
Source: EIA-860A, updates

132. Plant Owner Code (Ninth) (OWNRUC09) –
This field contains the unique EIA-assigned number associated with OWNRNM09.
Source: EIA-860A, updates

133. Plant Owner Percent (Ninth) (OWNRPR09) –
This field contains the percent of the plant that is owned by OWNRNM09. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

134. Plant Owner Type (Ninth) (OWNRTY09) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

135. Plant Owner Name (Tenth) (OWNRNM10) –
This field contains the name of the tenth plant owner.
Source: EIA-860A, updates

136. Plant Owner Code (Tenth) (OWNRUC10) –
This field contains the unique EIA-assigned number associated with OWNRNM10.
Source: EIA-860A, updates

137. Plant Owner Percent (Tenth) (OWNRPR10) –
This field contains the percent of the plant that is owned by OWNRNM10. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

138. Plant Owner Type (Tenth) (OWNRTY10) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

139. Plant Owner Name (Eleventh) (OWNRNM11) –
This field contains the name of the eleventh plant owner.
Source: EIA-860A, updates

140. Plant Owner Code (Eleventh) (OWNRUC11) --
This field contains the unique EIA-assigned number associated with OWNRNM11.
Source: EIA-860A, updates

141. Plant Owner Percent (Eleventh) (OWNRPR11) –
This field contains the percent of the plant that is owned by OWNRNM11. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

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142. Plant Owner Type (Eleventh) (OWNRTY11) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

143. Plant Owner Name (Twelfth) (OWNRNM12) –
This field contains the name of the twelfth plant owner.
Source: EIA-860A, updates

144. Plant Owner Code (Twelfth) (OWNRUC12) –
This field contains the unique EIA-assigned number associated with OWNRNM12.
Source: EIA-860A, updates

145. Plant Owner Percent (Twelfth) (OWNRPR12) –
This field contains the percent of the plant that is owned by OWNRNM12. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

146. Plant Owner Type (Twelfth) (OWNRTY12) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

147. Plant Owner Name (Thirteenth) (OWNRNM13) –
This field contains the name of the thirteenth plant owner. Four plants have 13 owners.
Source: EIA-860A, updates

148. Plant Owner Code (Thirteenth) (OWNRUC13) –
This field contains the unique EIA-assigned number associated with OWNRNM13.
Source: EIA-860A, updates

149. Plant Owner Percent (Thirteenth) (OWNRPR13) –
This field contains the percent of the plant that is owned by OWNRNM13. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

150. Plant Owner Type (Thirteenth) (OWNRTY13) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

151. Plant Owner Name (Fourteenth) (OWNRNM14) –
This field contains the name of the fourteenth plant owner. Two plants have 14 owners.
Source: EIA-860A, updates

152. Plant Owner Code (Fourteenth) (OWNRUC14) –
This field contains the unique EIA-assigned number associated with OWNRNM14.
Source: EIA-860A, updates

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153. Plant Owner Percent (Fourteenth) (OWNRPR14) –
This field contains the percent of the plant that is owned by OWNRNM14. It is calculated based on reported generator ownership data.
Source: EIA-860A, updates

154. Plant Owner Type (Fourteenth) (OWNRTY14) –
For 1998, 1999, and 2000 data years, this field contains the owner type. Possible choices are utility (="UT") or nonutility (="NU").

155. eGRID96 1996 File Plant Sequence Number (SEQPLT) –
This field contains the plant sequence number from eGRID96. If it is -99 or N/A, then the plant was not included in eGRID96.

156. eGRID97 1997 File Plant Sequence Number (SEQPLT97) –
This field contains the plant sequence number from eGRID97. If it is -99 or N/A, then the plant was not included in eGRID97 with 1997 data.

157. eGRID2000 1998 File Plant Sequence Number (SEQPLT98) –
This field contains the plant sequence number from eGRID2000. If it is -99 or N/A, then the plant was not included in eGRID2000 with 1998 data.

THE EGRDST FILE

There are 93 variables in the fourth subfile, EGRDST, which contains State-level data. All size, generation, and emission values are derived by aggregating from the plant level based on the State in which the plant is located.

1. **eGRID2002 2000 File State Sequence Number (SEQST00) –**
   The State records in this data file are sorted by State postal code abbreviation and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File State Sequence Number (SEQST99) –**
   The State records in this data file are sorted by State postal code abbreviation and are assigned a unique sequential number beginning with 1.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State where the plant is located.
   Source: EIA-860A, EIA-860B

4. **FIPS State Code (FIPST) –**
   This field contains the two digit FIPS State code of the State in which the plant is located.
   Source: EIA-860A, EIA-860B

5. **State Boiler Capacity (BOILCAP) –**
   This field, based on steam flow, contains the estimated boiler design capacity in MMBtu/hr.

6. **State Generator Capacity (NAMEPCAP) –**
   This field indicates the total nameplate capacity, in MW, for the State.

7. **State Annual Heat Input (STHTIAN) –**
   This field, in MMBtu, is the State level total of PLHTIAN (plant level heat input).

8. **State Ozone Season Heat Input (STHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the State.

9. **State Annual Net Generation (STNGENAN) –**
   This field, in MWh, is the reported net generation in MWh for the State.

10. **State Ozone Season Net Generation (STNGENOZ) –**
    This field, in MWh, is the five month ozone season (May-September) net generation for the State.

11. **State Annual NO_x Emissions (STNOXAN) –**
    This field, in tons, is the State level total of PLNOXAN (plant level annual NO_x emissions).

12. **State Ozone Season NO_x Emissions (STNOXOZ) –**
    This field, in tons, is the State level total of PLNOXOZ (plant level ozone season NO_x emissions).

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13. **State Annual SO_2 Emissions (STSO2AN) –**
This field, in tons, is the State level total of PLSO2AN (plant level annual SO_2 emissions).

14. **State Annual CO_2 Emissions (STCO2AN) –**
This field, in tons, is the State level total of PLCO2AN (plant level annual CO_2 emissions).

15. **State Annual Mercury Emissions (STHGAN) –**
This field, in lbs, is the State level total of PLHGAN (plant level annual Hg emissions).

16. **State Annual NO_x Output Emission Rate (STNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
STNOXRTA = 2000 * STNOXAN/STNGENAN.

17. **State Ozone Season NO_x Output Emission Rate (STNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
STNOXRTO = 2000 * STNOXOZ/STNGENOZ.

18. **State Annual SO_2 Output Emission Rate (STSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
STSO2RTA = 2000 * STSO2AN/STNGENAN.

19. **State Annual CO_2 Output Emission Rate (STCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
STCO2RTA = 2000 * STCO2AN/STNGENAN.

20. **State Annual Mercury Output Emission Rate (STHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
STHGRTA = STHGAN/(STNGENAN * 1000).

21. **State Annual NO_x Input Emission Rate (STNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
STNOXRA = 2000 * STNOXAN/STHTIAN

22. **State Ozone Season NO_x Input Emission Rate (STNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
STNOXRO = 2000 * STNOXOZ/STHTIOZ

23. **State Annual SO_2 Input Emission Rate (STSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
STSO2RA = 2000 * STSO2AN/STHTIAN

24. **State Annual CO_2 Input Emission Rate (STCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
STCO2RA = 2000 * STCO2AN/STHTIAN

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25. State Annual Mercury Input Emission Rate (STHGRA) –
This field, in lbs/BBtu, is calculated as follows:
STHGRA = STHGAN/(STHTIAN/1000).

26. State Coal Annual NO_x Output Emission Rate (STCNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

27. State Oil Annual NO_x Output Emission Rate (STONOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. State Gas Annual NO_x Output Emission Rate (STGNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

29. State Fossil Fuel Annual NO_x Output Emission Rate (STFSNXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

30. State Coal Ozone Season NO_x Output Emission Rate (STCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

31. State Oil Ozone Season NO_x Output Emission Rate (STONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. State Gas Ozone Season NO_x Output Emission Rate (STGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

33. State Fossil Fuel Ozone Season NO_x Output Emission Rate (STFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

34. State Coal Annual SO_2 Output Emission Rate (STCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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35. State Oil Annual SO_2 Output Emission Rate (STOSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. State Gas Annual SO_2 Output Emission Rate (STGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. State Fossil Fuel Annual SO_2 Output Emission Rate (STFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

38. State Coal Annual CO_2 Output Emission Rate (STCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. State Oil Annual CO_2 Output Emission Rate (STOCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. State Gas Annual CO_2 Output Emission Rate (STGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. State Fossil Fuel Annual CO_2 Output Emission Rate (STFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

42. State Coal Annual Mercury Output Emission Rate (STCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

43. State Fossil Fuel Annual Mercury Output Emission Rate (STFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

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44. State Coal Annual NO_x Input Emission Rate (STCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

45. State Oil Annual NO_x Input Emission Rate (STONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. State Gas Annual NO_x Input Emission Rate (STGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

47. State Fossil Fuel Annual NO_x Input Emission Rate (STFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

48. State Coal Ozone Season NO_x Input Emission Rate (STCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

49. State Oil Ozone Season NO_x Input Emission Rate (STONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. State Gas Ozone Season NO_x Input Emission Rate (STGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

51. State Fossil Fuel Ozone Season NO_x Input Emission Rate (STFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

52. State Coal Annual SO_2 Input Emission Rate (STCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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53. State Oil Annual SO_2 Input Emission Rate (STOSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. State Gas Annual SO_2 Input Emission Rate (STGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. State Fossil Fuel Annual SO_2 Input Emission Rate (STFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

56. State Coal Annual CO_2 Input Emission Rate (STCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. State Oil Annual CO_2 Input Emission Rate (STOCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. State Gas Annual CO_2 Input Emission Rate (STGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. State Fossil Fuel Annual CO_2 Input Emission Rate (STFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

60. State Coal Annual Mercury Input Emission Rate (STCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

61. State Fossil Fuel Annual Mercury Input Emission Rate (STFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

62. State Annual Coal Net Generation (STGENACL) –
This field, in MWh, contains the State net generation for coal.

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63. State Annual Oil Net Generation (STGENAOL) –
This field, in MWh, contains the State net generation for oil.

64. State Annual Gas Net Generation (STGENAGS) –
This field, in MWh, contains the State net generation for natural gas.

65. State Annual Nuclear Net Generation (STGENANC) –
This field, in MWh, contains the State net generation for nuclear.

66. State Annual Hydro Net Generation (STGENAHY) –
This field, in MWh, contains the State net generation for hydro.

67. State Annual Biomass/Wood Net Generation (STGENABM) –
This field, in MWh, contains the State net generation for biomass/wood.

68. State Annual Wind Net Generation (STGENAWI) –
This field, in MWh, contains the State net generation for wind.

69. State Annual Solar Net Generation (STGENASO) –
This field, in MWh, contains the State net generation for solar.

70. State Annual Geothermal Net Generation (STGENAGT) –
This field, in MWh, contains the State net generation for geothermal.

71. State Annual Other Fossil Net Generation (STGENAOF) –
This field, in MWh, contains the State net generation for other fossil.

72. State Annual Solid Waste Net Generation (STGENASW) –
This field, in MWh, contains the State net generation for solid waste.

73. State Annual Total Nonrenewables Net Generation (STGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the State.

74. State Annual Total Renewables Net Generation (STGENATR) –
This field, in MWh, contains the total renewable net generation for the State.

75. State Annual Total Nonhydro Renewables Net Generation (STGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the State.

76. State Coal Generation Percent (STCLPR) –
This field, a percent, is calculated as follows:
STCLPR = 100 * STGENACL/STNGENAN.

77. State Oil Generation Percent (STOLPR) –
This field, a percent, is calculated as follows:
STOLPR = 100 * STGENAOL/STNGENAN.

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78. State Gas Generation Percent (STGSPR) –
This field, a percent, is calculated as follows:
STGSPR = 100 * STGENAGS/STNGENAN.

79. State Nuclear Generation Percent (STNCPR) –
This field, a percent, is calculated as follows:
STNCPR = 100 * STGENANC/STNGENAN.

80. State Hydro Generation Percent (STHYPR) –
This field, a percent, is calculated as follows:
STHYPR = 100 * STGENAHY/STNGENAN.

81. State Biomass/Wood Generation Percent (STBMPR) –
This field, a percent, is calculated as follows:
STBMPR = 100 * STGENABM/STNGENAN.

82. State Wind Generation Percent (STWIPR) –
This field, a percent, is calculated as follows:
STWIPR = 100 * STGENAWI/STNGENAN.

83. State Solar Generation Percent (STSOPR) –
This field, a percent, is calculated as follows:
STSOPR = 100 * STGENASO/STNGENAN.

84. State Geothermal Generation Percent (STGTPR) –
This field, a percent, is calculated as follows:
STGTPR = 100 * STGENAGT/STNGENAN.

85. State Other Fossil Generation Percent (STOFPR) –
This field, a percent, is calculated as follows:
STOFPR = 100 * STGENAOF/STNGENAN.

86. State Solid Waste Generation Percent (STSWPR) –
This field, a percent, is calculated as follows:
STSWPR = 100 (STGENASW/STGENAN.

87. State Total Nonrenewables Generation Percent (STTNPR) –
This field, a percent, is calculated as follows:
STTNPR = 100 * STGENATN/STNGENAN.

88. State Total Renewables Generation Percent (STTRPR) –
This field, a percent, is calculated as follows:
STTRPR = 100 * STGENATR/STNGENAN.

89. State Total Nonhydro Renewables Generation Percent (STTHPR) –
This field, a percent, is calculated as follows:
STTHPR = 100 * STGENATH/STNGENAN.

THE EGRDST FILE

90. State Inclusion of Nonutilities Flag (STTYP) –
This field indicates whether there are any nonutilities in the State. A value of 1 indicates that there is, and a value of 0 indicates that there is not.

91. eGRID96 1996 File State Sequence Number (SEQST) –
This field contains the State sequence number from eGRID96.

92. eGRID97 1997 File State Sequence Number (SEQST97) –
This field contains the State sequence number from eGRID97.

93. eGRID2000 1998 File State Sequence Number (SEQST98) –
This field contains the State sequence number from eGRID2000.

THE EGRDEGCO FILE

There are 101 variables in the fifth subfile, EGRDEGCO, which contains owner-based electric generating company (EGC) data. All generation and emission values are derived by aggregating from the plant level based on the EGC's plant ownership and ownership percentage. Even if an EGC is owned by a parent (holding) company, all data are reported in this file for individual EGCs.

1. **eGRID2002 2000 File Owner-Based EGC Sequence Number (SEQEGO00) –**
   The owner-based Electric Generating Company (EGC) records in this data file are sorted by electric generating company name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Owner-Based EGC Sequence Number (SEQEGO99) –**
   The owner-based Electric Generating Company (EGC) records in this data file are sorted by electric generating company name, and are assigned a unique sequential number beginning with 1.

3. **EGC Name (EGCNAME) –**
   This field contains the name of the owner-based EGC that is associated with the unique company code assigned by EIA.
   Sources: EIA-860A, EIA-860B, EIA-861

4. **EGC ID (EGCID) –**
   This field contains the unique code assigned to this owner by EIA; EPA assigned codes starting with -101, -1001, or -2001 were assigned when they were not otherwise available. If the code has a value in the negative one hundreds (-1xx), it is a utility or nonutility operator or owner code, that was not assigned one by EIA. If the code has a value in the negative one thousands (-1xxx), it means that it is a nonutility front company that is comprised of more than one nonutility company to which it is related (and which should probably all have the same code). For 1998 and subsequent data years, if the code has a value in the negative two thousands (-2xxx), it is a nonutility operating company not part of a front company, that was not assigned a code by EIA.
   Sources: EIA-860A, EIA-860B

5. **Owner Type (OWNERTYP) –**
   This field describes the EGC owner. Possible values include:

Nonutility	=	A company that generates electricity but is not a utility.
UT/Cooperative	=	A utility that is organized as an electric cooperative and is owned cooperatively by its retail customers.
UT/Federal	=	A utility operated by the Federal government.
UT/IOU	=	An investor-owned utility that is an operating utility.
UT/Municipal	=	A utility operated by a municipal government.
UT/Other	=	A utility that does not fit into any of the other categories.
UT/State	=	A utility operated by a State government.
UT/Subdivision	=	A utility operated by a political subdivision other than a municipal or State government.

   Sources: EIA-861, EIA-860B

THE EGRDEGCO FILE

6. **Change (CHANGE) –**
This field has a value of "Y" if a change has occurred (e.g., name or ID change, it absorbed/merged with another EGC, it has a new parent company/PCA/NERC, or there is a pending change). The user can refer to the EGRDEGCH Note file #18 for further details. The value is "N" otherwise.

7. **EGC State Abbreviation (USTATABB) –**
This field contains the name of the State in which the company headquarters is reported to be located. Beginning with 1999 data, if the EGC is a nonutility, then the EGC State will be missing.
Sources: EIA-861, EIA-860A

8. **Parent Company Name (PRNAME) –**
This field contains the name of the parent company, if it exists, which the EGC is a subsidiary of. The Edison Electric Institute (EEI, 1999, 2001) is the primary source.

9. **Parent Company ID (PRNUM) –**
This field contains a unique number associated with the parent company name. EIA provided a few IDs, but most are dummy values, beginning with -7001.

10. **Power Control Area Name (PCANAME) –**
This field contains the name of the power control area (PCA) associated with the EGC. Nonutility EGCs do not have associated PCAs, so this field will be blank for nonutility EGCs.
Source: EIA-861, FERC 714

11. **Power Control Area ID (PCAID) –**
This unique identifier is derived from the utility code for the respondent for the control area. It will be zero for nonutility EGCs.
Source: EIA-861

12. **NERC Region Acronym (NERC) –**
This field includes the acronym for one of the 13 assigned NERC regions. Nonutility EGCs do not have associated NERC regions so this field will be blank for nonutility EGCs.
Source: EIA-861, EIA-860A

13. **NERC Number Associated with NERC Region (NERCNUM) –**
This field includes the NERC number associated with the NERC region. eGRID assigns negative integers to the eGRID designated OFF-GRID NERC region.

14. **EGC Capacity (NAMEPCAP) –**
This field, in MWh, indicates the total nameplate capacity for the EGC.

15. **EGC Annual Heat Input (EGHTIAN) –**
This field, in MMBtu, is the EGC level total of PLHTIAN (plant level heat input).

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16. **EGC Ozone Season Heat Input (EGHTIOZ) –**
This field is the five month ozone season (May-September) heat input for the EGC.

17. **EGC Annual Net Generation (EGNGENAN) –**
This field, in MWh, is reported net generation for the EGC.

18. **EGC Ozone Season Net Generation (EGNGENOZ) –**
This field, in MWh, is the five month ozone season (May-September) net generation for the EGC.

19. **EGC Annual NO_x Emissions (EGNOXAN) –**
This field, in tons, is the EGC level total of PLNOXAN (plant level annual NO_x emissions).

20. **EGC Ozone Season NO_x Emissions (EGNOXOZ) –**
This field, in tons, is the EGC level total of PLNOXOZ (plant level ozone season NO_x emissions).

21. **EGC Annual SO_2 Emissions (EGSO2AN) –**
This field, in tons, is the EGC level total of PLSO2AN (plant level annual SO_2 emissions).

22. **EGC Annual CO_2 Emissions (EGCO2AN) –**
This field, in tons, is the EGC level total of PLCO2AN (plant level annual CO_2 emissions).

23. **EGC Annual Mercury Emissions (EGHGAN) –**
This field, in lbs, is the EGC level total of PLHGAN (plant level annual Hg emissions).

24. **EGC Average Annual NO_x Output Emission Rate (EGNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
EGNOXRTA = 2000 * EGNOXAN/EGNGENAN.

25. **EGC Average Ozone Season NO_x Output Emission Rate (EGNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
EGNOXRTO = 2000 * EGNOXOZ/EGNGENOZ.

26. **EGC Annual SO_2 Output Emission Rate (EGSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
EGSO2RTA = 2000 * EGSO2AN/EGNGENAN.

27. **EGC Annual CO_2 Output Emission Rate (EGCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
EGCO2RTA = 2000 * EGCO2AN/EGNGENAN.

28. **EGC Annual Mercury Output Emission Rate (EGHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
EGHGRTA = EGHGAN/(EGNGENAN * 1000).

THE EGRDEGCO FILE

29. EGC Annual NO_x Input Emission Rate (EGNOXRA) –
This field, in lbs/MMBtu, is calculated as follows:
EGNOXRA = 2000 * EGNOXAN/EGHTIAN

30. EGC Ozone Season NO_x Input Emission Rate (EGNOXRO) –
This field, in lbs/MMBtu, is calculated as follows:
EGNOXRO = 2000 * EGNOXOZ/EGHTIOZ

31. EGC Annual SO_2 Input Emission Rate (EGSO2RA) –
This field, in lbs/MMBtu, is calculated as follows:
EGSO2RA = 2000 * EGSO2AN/EGHTIAN

32. EGC Annual CO_2 Input Emission Rate (EGCO2RA) –
This field, in lbs/MMBtu, is calculated as follows:
EGCO2RA = 2000 * EGCO2AN/EGHTIAN

33. EGC Annual Mercury Input Emission Rate (EGHGRA) –
This field, in lbs/BBtu, is calculated as follows:
EGHGRA = EGHGAN/(EGHTIAN/1000).

34. EGC Coal Annual NO_x Output Emission Rate (EGCNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

35. EGC Oil Annual NO_x Output Emission Rate (EGONOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. EGC Gas Annual NO_x Output Emission Rate (EGGNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. EGC Fossil Fuel Annual NO_x Output Emission Rate (EGFSNXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

38. EGC Coal Ozone Season NO_x Output Emission Rate (EGCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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39. EGC Oil Ozone Season NO_x Output Emission Rate (EGONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. EGC Gas Ozone Season NO_x Output Emission Rate (EGGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. EGC Fossil Fuel Ozone Season NO_x Output Emission Rate (EGFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

42. EGC Coal Annual SO_2 Output Emission Rate (EGCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

43. EGC Oil Annual SO_2 Output Emission Rate (EGOSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. EGC Gas Annual SO_2 Output Emission Rate (EGGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

45. EGC Fossil Fuel Annual SO_2 Output Emission Rate (EGFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

46. EGC Coal Annual CO_2 Output Emission Rate (EGCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

47. EGC Oil Annual CO_2 Output Emission Rate (EGOCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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48. EGC Gas Annual CO_2 Output Emission Rate (EGGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

49. EGC Fossil Fuel Annual CO_2 Output Emission Rate (EGFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

50. EGC Coal Annual Mercury Output Emission Rate (EGCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

51. EGC Fossil Fuel Annual Mercury Output Emission Rate (EGFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

52. EGC Coal Annual NO_x Input Emission Rate (EGCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

53. EGC Oil Annual NO_x Input Emission Rate (EGONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. EGC Gas Annual NO_x Input Emission Rate (EGGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. EGC Fossil Fuel Annual NO_x Input Emission Rate (EGFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

56. EGC Coal Ozone Season NO_x Input Emission Rate (EGCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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57. EGC Oil Ozone Season NO_x Input Emission Rate (EGONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. EGC Gas Ozone Season NO_x Input Emission Rate (EGGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. EGC Fossil Fuel Ozone Season NO_x Input Emission Rate (EGFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

60. EGC Coal Annual SO_2 Input Emission Rate (EGCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

61. EGC Oil Annual SO_2 Input Emission Rate (EGOSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. EGC Gas Annual SO_2 Input Emission Rate (EGGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

63. EGC Fossil Fuel Annual SO_2 Input Emission Rate (EGFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

64. EGC Coal Annual CO_2 Input Emission Rate (EGCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

65. EGC Oil Annual CO_2 Input Emission Rate (EGOCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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66. EGC Gas Annual CO_2 Input Emission Rate (EGGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

67. EGC Fossil Fuel Annual CO_2 Input Emission Rate (EGFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

68. EGC Coal Annual Mercury Input Emission Rate (EGCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

69. EGC Fossil Fuel Annual Mercury Input Emission Rate (EGFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

70. EGC Annual Coal Net Generation (EGGENACL) –
This field, in MWh, contains the EGC net generation for coal.

71. EGC Annual Oil Net Generation (EGGENAOL) –
This field, in MWh, contains the EGC net generation for oil.

72. EGC Annual Gas Net Generation (EGGENAGS) –
This field, in MWh, contains the EGC net generation for natural gas.

73. EGC Annual Nuclear Net Generation (EGGENANC) –
This field, in MWh, contains the EGC net generation for nuclear.

74. EGC Annual Hydro Net Generation (EGGENAHY) –
This field, in MWh, contains the EGC net generation for hydro.

75. EGC Annual Biomass/Wood Net Generation (EGGENABM) –
This field, in MWh, contains the EGC net generation for biomass/wood.

76. EGC Annual Wind Net Generation (EGGENAWI) –
This field, in MWh, contains the EGC net generation for wind.

77. EGC Annual Solar Net Generation (EGGENASO) –
This field, in MWh, contains the EGC net generation for solar.

78. EGC Annual Geothermal Net Generation (EGGENAGT) –
This field, in MWh, contains the EGC net generation for geothermal.

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79. EGC Annual Other Fossil Net Generation (EGGENAOF) –
This field, in MWh, contains the EGC net generation for other fossil.

80. EGC Annual Solid Waste Net Generation (EGGENASW) –
This field, in MWh, contains the EGC net generation for solid waste.

81. EGC Annual Total Nonrenewables Net Generation (EGGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the EGC.

82. EGC Annual Total Renewables Net Generation (EGGENATR) –
This field, in MWh, contains the total renewable net generation for the EGC.

83. EGC Annual Total Nonhydro Renewables Net Generation (EGGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the EGC.

84. EGC Coal Generation Percent (EGCLPR) –
This field, a percent, is calculated as follows:
EGCLPR = 100 * EGGENACL/EGGENAN.

85. EGC Oil Generation Percent (EGOLPR) –
This field, a percent, is calculated as follows:
EGOLPR = 100 * EGGENAOL/EGGENAN.

86. EGC Gas Generation Percent (EGGSPR) –
This field, a percent, is calculated as follows:
EGGSPR = 100 * EGGENAGS/EGNGENAN.

87. EGC Nuclear Generation Percent (EGNCPR) –
This field, a percent, is calculated as follows:
EGNCPR = 100 * EGGENANC/EGNGENAN.

88. EGC Hydro Generation Percent (EGHYPR) –
This field, a percent, is calculated as follows:
EGHYPR = 100 * EGGENAHY/EGNGENAN.

89. EGC Biomass/Wood Generation Percent (EGBMPR) –
This field, a percent, is calculated as follows:
EGBMPR = 100 * EGGENABM/EGNGENAN.

90. EGC Wind Generation Percent (EGWIPR) –
This field, a percent, is calculated as follows:
EGWIPR = 100 * EGGENAWI/EGNGENAN.

91. EGC Solar Generation Percent (EGSOPR) –
This field, a percent, is calculated as follows:
EGSOPR = 100 * EGGENASO/EGNGENAN.

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92. EGC Geothermal Generation Percent (EGGTPR) –
This field, a percent, is calculated as follows:
EGGTPR = 100 * EGGENAGT/EGNGENAN.

93. EGC Other Fossil Generation Percent (EGOFPR) –
This field, a percent, is calculated as follows:
EGOFPR = 100 * EGGENAOF/EGNGENAN.

94. EGC Solid Waste Generation Percent (EGSWPR) –
This field, a percent, is calculated as follows:
EGSWPR = 100 (EGGENASW/EGGENAN.

95. EGC Total Nonrenewables Generation Percent (EGTNPR) –
This field, a percent, is calculated as follows:
EGTNPR = 100 * EGGENATN/EGNGENAN.

96. EGC Total Renewables Generation Percent (EGTRPR) –
This field, a percent, is calculated as follows:
EGTRPR = 100 * EGGENATR/EGNGENAN.

97. EGC Total Nonhydro Renewables Generation Percent (EGTHPR) –
This field, a percent, is calculated as follows:
EGTHPR = 100 * EGGENATH/EGNGENAN.

98. EGC Inclusion of Nonutilities Flag (EGTYP) –
This field indicates whether there are any nonutilities in the EGC. A value of 1 indicates that there is, and a value of 0 indicates that there is not.

99. eGRID96 1996 File Owner-Based EGC Sequence Number (SEQEGCO) –
This field contains the owner-based EGC sequence number from eGRID96. If it is -99 or N/A, then the EGC owner was not included in eGRID96.

100. eGRID97 1997 File Owner-Based EGC Sequence Number (SEQEGO97) –
This field contains the owner-based EGC sequence number from eGRID97. If it is -99 or N/A, then the EGC owner was not included in eGRID97 with 1997 data.

101. eGRID2000 1998 File Owner-Based EGC Sequence Number (SEQEGO98) –
This field contains the owner-based EGC sequence number from eGRID2000. If it is -99 or N/A, then the EGC owner was not included in eGRID2000 with 1998 data.

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There are 101 variables in the sixth subfile, EGRDEGCL, which contains location (operator)-based electric generating company (EGC) data. All generation and emission values are derived by aggregating from the plant level based on the EGC which operates the plant. Even if an EGC is owned by a parent (holding) company, all data are reported in this file for individual EGCs.

1. **eGRID2002 2000 File Location (Operator)-Based EGC Sequence Number (SEQEGP00) –**
   The location (operator)-based Electric Generating Company (EGC) records in this data file are sorted by electric generating company name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Location (Operator)-Based EGC Sequence Number (SEQEGP99) –**
   The location (operator)-based Electric Generating Company (EGC) records in this data file are sorted by electric generating company name, and are assigned a unique sequential number beginning with 1.

3. **EGC Name (EGCNAME) –**
   This field contains the name of the location (operator)-based EGC that is associated with the unique company code assigned by EIA.
   Sources: EIA-860A, EIA-860B, EIA-861

4. **EGC ID (EGCID) –**
   This field contains the unique code assigned to this operator by EIA; EPA assigned codes starting with -101, -1001, or -2001 were assigned when they were not otherwise available. If the code has a value in the negative one hundreds, it is a utility or nonutility or operator or owner code, that was not assigned one by EIA. If the code has a value in the negative one thousands (-1xxx), it means that it is a nonutility front company that is comprised of more than one nonutility company to which it is related (and which should probably all have the same code). For 1998 and subsequent data years, if the code has a value in the negative two thousands (-2xxx), it is a nonutility operating company not part of a front company, that was not assigned one by EIA.
   Sources: EIA-860A, EIA-860B

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5. Owner Type (OWNERTYP) –

This field describes the EGC owner. Possible values include:

Nonutility	=	A company that generates electricity but is not a utility.
UT/Cooperative	=	A utility that is organized as an electric cooperative and is owned cooperatively by its retail customers.
UT/Federal	=	A utility operated by the Federal government.
UT/IOU	=	An investor-owned utility that is an operating utility but not a parent company.
UT/Municipal	=	A utility operated by a municipal government.
UT/Other	=	A utility for which the type is unknown.
UT/State	=	A utility operated by a State government.
UT/Subdivision	=	A utility operated by a political subdivision other than a municipal or State government.

Sources: EIA-861, EIA-860B

6. Change (CHANGE) –

This field has a value of "Y" if a change has occurred (e.g., name or ID change, it absorbed/merged with another EGC, it has a new parent company/PCA/NERC, or there is a pending change). The user can refer to the EGRDEGCH Note file #18 for further details. The value is "N" otherwise.

7. EGC State Abbreviation (USTATABB) –

This field contains the name of the State in which the company headquarters is reported to be located. Beginning with 1999 data, if the EGC is a nonutility then the EGC State will be missing.
Sources: EIA-861, EIA-860A

8. Parent Company Name (PRNAME) –

This field contains the name of the parent company which controls the EGC, if it exists. The Edison Electric Institute (EEI, 1999, 2001) is the primary source.

9. Parent Company ID (PRNUM) –

This field contains a unique number associated with the Parent Company name. EIA provided a few IDs, but most are dummy values.

10. Power Control Area Name (PCANAME) –

This field contains the name of the power control area (PCA) associated with the EGC. Nonutility EGCs do not have associated PCAs, so this field will be blank for nonutility EGCs.
Source: EIA-861, FERC-714

11. Power Control Area ID (PCAID) –

This unique identifier is derived from the utility code for the respondent for the control area. It will be zero for nonutility EGCs.
Source: EIA-861

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12. NERC Region Acronym (NERC) –
This field includes the acronym for one of the 13 assigned NERC regions. Nonutility EGCs do not have associated NERC regions so this field will be blank for nonutility EGCs.
Source: EIA-861, EIA-860A

13. NERC Number Associated with NERC Region (NERCNUM) –
This field includes the NERC number associated with the NERC region. eGRID assigns negative integers to the eGRID designated OFF-GRID NERC region.

14. EGC Capacity (NAMEPCAP) –
This field, in MWh, indicates the total nameplate capacity for the EGC.

15. EGC Annual Heat Input (EGHTIAN) –
This field, in MMBtu, is the EGC level total of PLHTIAN (plant level heat input).

16. EGC Ozone Season Heat Input (EGHTIOZ) –
This field is the five month ozone season (May-September) heat input for the EGC.

17. EGC Annual Net Generation (EGNGENAN) –
This field, in MWh, is reported net generation for the EGC.

18. EGC Ozone Season Net Generation (EGNGENOZ) –
This field, in MWh, is the five month ozone season (May-September) net generation for the EGC.

19. EGC Annual NO_x Emissions (EGNOXAN) –
This field, in tons, is the EGC level total of PLNOXAN (plant level annual NO_x emissions).

20. EGC Ozone Season NO_x Emissions (EGNOXOZ) –
This field, in tons, is the EGC level total of PLNOXOZ (plant level ozone season NO_x emissions).

21. EGC Annual SO_2 Emissions (EGSO2AN) –
This field, in tons, is the EGC level total of PLSO2AN (plant level annual SO_2 emissions).

22. EGC Annual CO_2 Emissions (EGCO2AN) –
This field, in tons, is the EGC level total of PLCO2AN (plant level annual CO_2 emissions).

23. EGC Annual Mercury Emissions (EGHGAN) –
This field, in lbs, is the EGC level total of PLHGAN (plant level annual Hg emissions).

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24. EGC Annual NO_x Output Emission Rate (EGNOXRTA) –
This field, in lbs/MWh, is calculated as follows:
EGNOXRTA = 2000 * EGNOXAN/EGNGENAN.

25. EGC Ozone Season NO_x Output Emission Rate (EGNOXRTO) –
This field, in lbs/MWh, is calculated as follows:
EGNOXRTO = 2000 * EGNOXOZ/EGNGENOZ.

26. EGC Annual SO_2 Output Emission Rate (EGSO2RTA) –
This field, in lbs/MWh, is calculated as follows:
EGSO2RTA = 2000 * EGSO2AN/EGNGENAN.

27. EGC Annual CO_2 Output Emission Rate (EGCO2RTA) –
This field, in lbs/MWh, is calculated as follows:
EGCO2RTA = 2000 * EGCO2AN/EGNGENAN.

28. EGC Annual Mercury Output Emission Rate (EGHGRTA) –
This field, in lbs/GWh, is calculated as follows:
EGHGRTA = EGHGAN/(EGNGENAN * 1000).

29. EGC Annual NO_x Input Emission Rate (EGNOXRA) –
This field, in lbs/MMBtu, is calculated as follows:
EGNOXRA = 2000 * EGNOXAN/EGHTIAN

30. EGC Ozone Season NO_x Input Emission Rate (EGNOXRO) –
This field, in lbs/MMBtu, is calculated as follows:
EGNOXRO = 2000 * EGNOXOZ/EGHTIOZ

31. EGC Annual SO_2 Input Emission Rate (EGSO2RA) –
This field, in lbs/MMBtu, is calculated as follows:
EGSO2RA = 2000 * EGSO2AN/EGHTIAN

32. EGC Annual CO_2 Input Emission Rate (EGCO2RA) –
This field, in lbs/MMBtu, is calculated as follows:
EGCO2RA = 2000 * EGCO2AN/EGHTIAN

33. EGC Annual Mercury Input Emission Rate (EGHGRA) –
This field, in lbs/BBtu, is calculated as follows:
EGHGRA = EGHGAN/(EGHTIAN/1000).

34. EGC Coal Annual NO_x Output Emission Rate (EGCNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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35. EGC Oil Annual NO_x Output Emission Rate (EGONOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. EGC Gas Annual NO_x Output Emission Rate (EGGNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. EGC Fossil Fuel Annual NO_x Output Emission Rate (EGFSNXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

38. EGC Coal Ozone Season NO_x Output Emission Rate (EGCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. EGC Oil Ozone Season NO_x Output Emission Rate (EGONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. EGC Gas Ozone Season NO_x Output Emission Rate (EGGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. EGC Fossil Fuel Ozone Season NO_x Output Emission Rate (EGFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

42. EGC Coal Annual SO_2 Output Emission Rate (EGCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

43. EGC Oil Annual SO_2 Output Emission Rate (EGOSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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44. EGC Gas Annual SO_2 Output Emission Rate (EGGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

45. EGC Fossil Fuel Annual SO_2 Output Emission Rate (EGFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

46. EGC Coal Annual CO_2 Output Emission Rate (EGCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

47. EGC Oil Annual CO_2 Output Emission Rate (EGOCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

48. EGC Gas Annual CO_2 Output Emission Rate (EGGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

49. EGC Fossil Fuel Annual CO_2 Output Emission Rate (EGFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

50. EGC Coal Annual Mercury Output Emission Rate (EGCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

51. EGC Fossil Fuel Annual Mercury Output Emission Rate (EGFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

52. EGC Coal Annual NO_x Input Emission Rate (EGCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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53. EGC Oil Annual NO_x Input Emission Rate (EGONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. EGC Gas Annual NO_x Input Emission Rate (EGGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. EGC Fossil Fuel Annual NO_x Input Emission Rate (EGFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

56. EGC Coal Ozone Season NO_x Input Emission Rate (EGCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. EGC Oil Ozone Season NO_x Input Emission Rate (EGONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. EGC Gas Ozone Season NO_x Input Emission Rate (EGGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. EGC Fossil Fuel Ozone Season NO_x Input Emission Rate (EGFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

60. EGC Coal Annual SO_2 Input Emission Rate (EGCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

61. EGC Oil Annual SO_2 Input Emission Rate (EGOSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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62. EGC Gas Annual SO_2 Input Emission Rate (EGGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

63. EGC Fossil Fuel Annual SO_2 Input Emission Rate (EGFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

64. EGC Coal Annual CO_2 Input Emission Rate (EGCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

65. EGC Oil Annual CO_2 Input Emission Rate (EGOCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

66. EGC Gas Annual CO_2 Input Emission Rate (EGGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

67. EGC Fossil Fuel Annual CO_2 Input Emission Rate (EGFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

68. EGC Coal Annual Mercury Input Emission Rate (EGCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

69. EGC Fossil Fuel Annual Mercury Input Emission Rate (EGFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

70. EGC Annual Coal Net Generation (EGGENACL) –
This field, in MWh, contains the EGC net generation for coal.

71. EGC Annual Oil Net Generation (EGGENAOL) –
This field, in MWh, contains the EGC net generation for oil.

72. EGC Annual Gas Net Generation (EGGENAGS) –
This field, in MWh, contains the EGC net generation for natural gas.

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73. EGC Annual Nuclear Net Generation (EGGENANC) –
This field, in MWh, contains the EGC net generation for nuclear.

74. EGC Annual Hydro Net Generation (EGGENAHY) –
This field, in MWh, contains the EGC net generation for hydro.

75. EGC Annual Biomass/Wood Net Generation (EGGENABM) –
This field, in MWh, contains the EGC net generation for biomass/wood.

76. EGC Annual Wind Net Generation (EGGENAWI) –
This field, in MWh, contains the EGC net generation for wind.

77. EGC Annual Solar Net Generation (EGGENASO) –
This field, in MWh, contains the EGC net generation for solar.

78. EGC Annual Geothermal Net Generation (EGGENAGT) –
This field, in MWh, contains the EGC net generation for geothermal.

79. EGC Annual Other Fossil Net Generation (EGGENAOF) –
This field, in MWh, contains the EGC net generation for other fossil.

80. EGC Annual Solid Waste Net Generation (EGGENASW) –
This field, in MWh, contains the EGC net generation for solid waste.

81. EGC Annual Total Nonrenewables Net Generation (EGGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the EGC.

82. EGC Annual Total Renewables Net Generation (EGGENATR) –
This field, in MWh, contains the total renewable net generation for the EGC.

83. EGC Annual Total Nonhydro Renewables Net Generation (EGGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the EGC.

84. EGC Coal Generation Percent (EGCLPR) –
This field, a percent, is calculated as follows:
EGCLPR = 100 * EGGENACL/EGNGENAN.

85. EGC Oil Generation Percent (EGOLPR) –
This field, a percent, is calculated as follows:
EGOLPR = 100 * EGGENAOL/EGNGENAN.

86. EGC Gas Generation Percent (EGGSPR) –
This field, a percent, is calculated as follows:
EGGSPR = 100 * EGGENAGS/EGNGENAN.

87. EGC Nuclear Generation Percent (EGNCPR) –
This field, a percent, is calculated as follows:
EGNCPR = 100 * EGGENANC/EGNGENAN.

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88. EGC Hydro Generation Percent (EGHYPR) –
This field, a percent, is calculated as follows:
EGHYPR = 100 * EGGENAHY/EGNGENAN.

89. EGC Biomass/Wood Generation Percent (EGBMPR) –
This field, a percent, is calculated as follows:
EGBMPR = 100 * EGGENABM/EGNGENAN.

90. EGC Wind Generation Percent (EGWIPR) –
This field, a percent, is calculated as follows:
EGWIPR = 100 * EGGENAWI/EGNGENAN.

91. EGC Solar Generation Percent (EGSOPR) –
This field, a percent, is calculated as follows:
EGSOPR = 100 * EGGENASO/EGNGENAN.

92. EGC Geothermal Generation Percent (EGGTPR) –
This field, a percent, is calculated as follows:
EGGTPR = 100 * EGGENAGT/EGNGENAN.

93. EGC Other Fossil Generation Percent (EGOFPR) –
This field, a percent, is calculated as follows:
EGOFPR = 100 * EGGENAOF/EGNGENAN.

94. EGC Solid Waste Generation Percent (EGSWPR) –
This field, a percent, is calculated as follows:
EGSWPR = 100 (EGGENASW/EGGENAN.

95. EGC Total Nonrenewables Generation Percent (EGTNPR) –
This field, a percent, is calculated as follows:
EGTNPR = 100 * EGGENATN/EGNGENAN.

96. EGC Total Renewables Generation Percent (EGTRPR) –
This field, a percent, is calculated as follows:
EGTRPR = 100 * EGGENATR/EGNGENAN.

97. EGC Total Nonhydro Renewables Generation Percent (EGTHPR) –
This field, a percent, is calculated as follows:
EGTHPR = 100 * EGGENATH/EGNGENAN.

98. EGC Inclusion of Nonutilities Flag (EGTYP) –
This field indicates whether there are any nonutilities in the EGC. A value of 1 indicates that there is, and a value of 0 indicates that there is not.

99. eGRID96 1996 File Location (Operator)-Based EGC Sequence Number (SEQEGCP) –
This field contains the location (operator)-based EGC sequence number from eGRID96. If it is -99 or N/A, then the EGC operator was not included in eGRID96.

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100. eGRID97 1997 File Location (Operator)-Based EGC Sequence Number (SEQEGP97) –

This field contains the location (operator)-based EGC sequence number from eGRID97. If it is -99 or N/A, then the EGC operator was not included in eGRID97 with 1997 data.

101. eGRID2000 1998 File Location (Operator)-Based EGC Sequence Number (SEQEGP98) –

This field contains the location (operator)-based EGC sequence number from eGRID2000. If it is -99 or N/A, then the EGC operator was not included in eGRID2000 with 1998 data.

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There are 94 variables in the seventh subfile, EGRDPRO, which contains company data organized by parent company wherever individual generating companies are subsidiaries or divisions of a larger parent (holding) company. All generation and emissions are derived by aggregating from the owner-based EGC level, based on the EGC subsidiaries in the parent company. The totals for data from this file will not be the same as for the other files, since this file is a subset of the others and does not include all aggregated emissions and generation.

1. **eGRID2002 2000 File Owner-Based Parent Company Sequence Number (SEQPRO00) –**
   The owner-based parent company records in this data file are sorted by parent company name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Owner-Based Parent Company Sequence Number (SEQPRO99) –**
   The owner-based parent company records in this data file are sorted by parent company name, and are assigned a unique sequential number beginning with 1.

3. **Parent Company Name (PRNAME) –**
   This field contains the name of the owner-based parent company.

4. **Parent Company ID (PRNUM) –**
   This field contains a unique number associated with the parent company.

5. **Change (CHANGE) –**
   This field has a value of "Y" if a change has occurred (e.g., name change, it absorbed/merged with another EGC or parent company, it has a new PCA/NERC, or there is a pending change). The user can refer to the EGRDPRCH Note file #19 for further details. The value is "N" otherwise.

6. **Parent Company State (PRSTATE) –**
   This field contains the State in which the parent company is located or headquartered.

7. **Parent Company Capacity (NAMEPCAP) –**
   This field, in MWh, indicates the total nameplate capacity for the parent company.

8. **Parent Company Annual Heat Input (PRHTIAN) –**
   This field, in MMBtu, is the parent company level total of PLHTIAN (plant level heat input).

9. **Parent Company Ozone Season Heat Input (PRHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the parent company.

10. **Parent Company Annual Net Generation (PRNGENAN) –**
    This field, in MWh, is reported net generation for the parent company.

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11. **Parent Company Ozone Season Net Generation (PRNGENOZ) –**
This field, in MWh, is the five month ozone season (May-September) net generation for the parent company.

12. **Parent Company Annual NO_x Emissions (PRNOXAN) –**
This field, in tons, is the parent company level total of PLNOXAN (plant level annual NO_x emissions).

13. **Parent Company Ozone Season NO_x Emissions (PRNOXOZ) –**
This field, in tons, is the parent company level total of PLNOXOZ (plant level ozone season NO_x emissions).

14. **Parent Company Annual SO_2 Emissions (PRSO2AN) –**
This field, in tons, is the parent company level total of PLSO2AN (plant level annual SO_2 emissions).

15. **Parent Company Annual CO_2 Emissions (PRCO2AN) –**
This field, in tons, is the parent company level total of PLCO2AN (plant level annual CO_2 emissions).

16. **Parent Company Annual Mercury Emissions (PRHGAN) –**
This field, in lbs, is the parent company level total of PLHGAN (plant level annual Hg emissions).

17. **Parent Company Annual NO_x Output Emission Rate (PRNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
PRNOXRTA = 2000 * PRNOXAN/PRNGENAN.

18. **Parent Company Ozone Season NO_x Output Emission Rate (PRNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
PRNOXRTO = 2000 * PRCNOXOZ/PRNGENOZ.

19. **Parent Company Annual SO_2 Output Emission Rate (PRSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PRSO2RTA = 2000 * PRSO2AN/PRNGENAN.

20. **Parent Company Annual CO_2 Output Emission Rate (PRCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PRCO2RTA = 2000 * PRCO2AN/PRNGENAN.

21. **Parent Company Annual Mercury Output Emission Rate (PRHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
PRHGRTA = PRHGAN/(PRNGENAN * 1000).

22. **Parent Company Annual NO_x Input Emission Rate (PRNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
PRNOXRA = 2000 * PRNOXAN/PRHTIAN

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23. **Parent Company Ozone Season NO_x Input Emission Rate (PRNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
PRNOXRO = 2000 * PRNOXOZ/PRHTIOZ

24. **Parent Company Annual SO_2 Input Emission Rate (PRSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PRSO2RA = 2000 * PRSO2AN/PRHTIAN

25. **Parent Company Annual CO_2 Input Emission Rate (PRCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PRCO2RA = 2000 * PRCO2AN/PRHTIAN

26. **Parent Company Annual Mercury Input Emission Rate (PRHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
PRHGRA = PRHGAN/(PRHTIAN/1000).

27. **Parent Company Coal Annual NO_x Output Emission Rate (PRCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. **Parent Company Oil Annual NO_x Output Emission Rate (PRONOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

29. **Parent Company Gas Annual NO_x Output Emission Rate (PRGNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. **Parent Company Fossil Fuel Annual NO_x Output Emission Rate (PRFSNXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

31. **Parent Company Coal Ozone Season NO_x Output Emission Rate (PRCNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. **Parent Company Oil Ozone Season NO_x Output Emission Rate (PRONXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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33. **Parent Company Gas Ozone Season NO_x Output Emission Rate (PRGNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

34. **Parent Company Fossil Fuel Ozone Season NO_x Output Emission Rate (PRFSNORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

35. **Parent Company Coal Annual SO_2 Output Emission Rate (PRCSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. **Parent Company Oil Annual SO_2 Output Emission Rate (PROSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. **Parent Company Gas Annual SO_2 Output Emission Rate (PRGSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. **Parent Company Fossil Fuel Annual SO_2 Output Emission Rate (PRFSS2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

39. **Parent Company Coal Annual CO_2 Output Emission Rate (PRCCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. **Parent Company Oil Annual CO_2 Output Emission Rate (PROCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. **Parent Company Gas Annual CO_2 Output Emission Rate (PRGCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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42. **Parent Company Fossil Fuel Annual CO_2 Output Emission Rate (PRFSC2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

43. **Parent Company Coal Annual Mercury Output Emission Rate (PRCHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. **Parent Company Fossil Fuel Annual Mercury Output Emission Rate (PRFSHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

45. **Parent Company Coal Annual NO_x Input Emission Rate (PRCNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. **Parent Company Oil Annual NO_x Input Emission Rate (PRONOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

47. **Parent Company Gas Annual NO_x Input Emission Rate (PRGNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. **Parent Company Fossil Fuel Annual NO_x Input Emission Rate (PRFSNXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

49. **Parent Company Coal Ozone Season NO_x Input Emission Rate (PRCNXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. **Parent Company Oil Ozone Season NO_x Input Emission Rate (PRONXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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51. **Parent Company Gas Ozone Season NO_x Input Emission Rate (PRGNXOR) –** This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

52. **Parent Company Fossil Fuel Ozone Season NO_x Input Emission Rate (PRFSNOR) –** This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

53. **Parent Company Coal Annual SO_2 Input Emission Rate (PRCSO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. **Parent Company Oil Annual SO_2 Input Emission Rate (PROSO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. **Parent Company Gas Annual SO_2 Input Emission Rate (PRGSO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. **Parent Company Fossil Fuel Annual SO_2 Input Emission Rate (PRFSS2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

57. **Parent Company Coal Annual CO_2 Input Emission Rate (PRCCO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. **Parent Company Oil Annual CO_2 Input Emission Rate (PROCO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. **Parent Company Gas Annual CO_2 Input Emission Rate (PRGCO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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60. Parent Company Fossil Fuel Annual CO_2 Input Emission Rate (PRFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

61. Parent Company Coal Annual Mercury Input Emission Rate (PRCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. Parent Company Fossil Fuel Annual Mercury Input Emission Rate (PRFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

63. Parent Company Annual Coal Net Generation (PRGENACL) –
This field, in MWh, contains the parent company net generation for coal.

64. Parent Company Annual Oil Net Generation (PRGENAOL) –
This field, in MWh, contains the parent company net generation for oil.

65. Parent Company Annual Gas Net Generation (PRGENAGS) –
This field, in MWh, contains the parent company net generation for natural gas.

66. Parent Company Annual Nuclear Net Generation (PRGENANC) –
This field, in MWh, contains the parent company net generation for nuclear.

67. Parent Company Annual Hydro Net Generation (PRGENAHY) –
This field, in MWh, contains the parent company net generation for hydro.

68. Parent Company Annual Biomass/Wood Net Generation (PRGENABM) –
This field, in MWh, contains the parent company net generation for biomass/wood.

69. Parent Company Annual Wind Net Generation (PRGENAWI) –
This field, in MWh, contains the parent company net generation for wind.

70. Parent Company Annual Solar Net Generation (PRGENASO) –
This field, in MWh, contains the parent company net generation for solar.

71. Parent Company Annual Geothermal Net Generation (PRGENAGT) –
This field, in MWh, contains the parent company net generation for geothermal.

72. Parent Company Annual Other Fossil Net Generation (PRGENAOF) –
This field, in MWh, contains the parent company net generation for other fossil.

73. Parent Company Annual Solid Waste Net Generation (PRGENASW) –
This field, in MWh, contains the parent company net generation for solid waste.

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74. Parent Company Annual Total Nonrenewables Net Generation (PRGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the parent company.

75. Parent Company Annual Total Renewables Net Generation (PRGENATR) –
This field, in MWh, contains the total renewable net generation for the parent company.

76. Parent Company Annual Total Nonhydro Renewables Net Generation (PRGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the parent company.

77. Parent Company Coal Generation Percent (PRCLPR) –
This field, a percent, is calculated as follows:
PRCLPR = 100 * PRGENACL/PRNGENAN.

78. Parent Company Oil Generation Percent (PROLPR) –
This field, a percent, is calculated as follows:
PROLPR = 100 * PRGENAOL/PRNGENAN.

79. Parent Company Gas Generation Percent (PRGSPR) –
This field, a percent, is calculated as follows:
PRGSPR = 100 * PRGENAGS/PRNGENAN.

80. Parent Company Nuclear Generation Percent (PRNCPR) –
This field, a percent, is calculated as follows:
PRNCPR = 100 * PRGENANC/PRNGENAN.

81. Parent Company Hydro Generation Percent (PRHYPR) –
This field, a percent, is calculated as follows:
PRHYPR = 100 * PRGENAHY/PRNGENAN.

82. Parent Company Biomass/Wood Generation Percent (PRBMPR) –
This field, a percent, is calculated as follows:
PRBMPR = 100 * PRGENABM/PRNGENAN.

83. Parent Company Wind Generation Percent (PRWIPR) –
This field, a percent, is calculated as follows:
PRWIPR = 100 * PRGENAWI/PRNGENAN.

84. Parent Company Solar Generation Percent (PRSOPR) –
This field, a percent, is calculated as follows:
PRSOPR = 100 * PRGENASO/PRNGENAN.

85. Parent Company Geothermal Generation Percent (PRGTPR) –
This field, a percent, is calculated as follows:
PRGTPR = 100 * PRGENAGT/PRNGENAN.

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86. Parent Company Other Fossil Generation Percent (PROFPR) –
This field, a percent, is calculated as follows:
PROFPR = 100 * PRGENAOF/PRNGENAN.

87. Parent Company Solid Waste Generation Percent (PRSWPR) –
This field, a percent, is calculated as follows:
PRSWPR = 100 (PRGENASW/PRGENAN.

88 Parent Company Total Nonrenewables Generation Percent (PRTNPR) –
This field, a percent, is calculated as follows:
PRTNPR = 100 * PRGENATN/PRNGENAN.

89. Parent Company Total Renewables Generation Percent (PRTRPR) –
This field, a percent, is calculated as follows:
PRTRPR = 100 * PRGENATR/PRNGENAN.

90. Parent Company Total Nonhydro Renewables Generation Percent (PRTHPR) –
This field, a percent, is calculated as follows:
PRTHPR = 100 * PRGENATH/PRNGENAN.

91. Parent Company Inclusion of Nonutilities Flag (PRTYP) –
This field indicates whether there are any nonutilities in the parent company. A value of 1 indicates that there is, and a value of 0 indicates that there is not.

92. eGRID96 1996 File Owner-Based Holding Company Sequence Number (SEQHC) –
This field contains the owner-based holding company sequence number from eGRID96. If it is -99 or N/A, then the parent company was not included in eGRID96.

93. eGRID97 1997 File Owner-Based Parent Company Sequence Number (SEQPRO97) –
This field contains the owner-based parent company sequence number from eGRID97. If it is -99 or N/A, then the parent company was not included in eGRID97 with 1997 data.

94. eGRID2000 1998 File Owner-Based Parent Company Sequence Number (SEQPRO98) –
This field contains the owner-based parent company sequence number from eGRID2000. If it is -99 or N/A, then the parent company was not included in eGRID2000 with 1998 data.

THE EGRDPRL FILE

There are 93 variables in the eighth subfile, EGRDPRL, which contains company data organized by parent company wherever individual generating companies are subsidiaries or divisions of a larger parent (holding) company. All generation and emissions are derived by aggregating from the location (operator)-based EGC level based on the EGC subsidiaries in the parent company. The totals for data from this file will not be the same as for the other files, since this file is a subset of the others and does not include all aggregated emissions and generation.

1. **eGRID2002 2000 File Location (Operator)-Based Parent Company Sequence Number (SEQPRP00) –**
   The location (operator)-based parent company records in this data file are sorted by parent company name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Location (Operator)-Based Parent Company Sequence Number (SEQPRP99) –**
   The location (operator)-based parent company records in this data file are sorted by parent company name, and are assigned a unique sequential number beginning with 1.

3. **Parent Company Name (PRNAME) –**
   This field contains the name of the location (operator)-based parent company.

4. **Parent Company ID (PRNUM) –**
   This field contains a unique number associated with the parent company.

5. **Change (CHANGE) –**
   This field has a value of "Y" if a change has occurred (e.g., name change, it absorbed/merged with another EGC or parent company, it has a new PCA/NERC, or there is a pending change). The user can refer to the EGRDPRCH Note file #19 for further details. The value is "N" otherwise.

6. **Parent Company State (PRSTATE) –**
   This field contains the State in which the parent company is located or headquartered

7. **Parent Company Capacity (NAMEPCAP) –**
   This field, in MWh, indicates the total nameplate capacity for the parent company.

8. **Parent Company Annual Heat Input (PRHTIAN) –**
   This field, in MMBtu, is the parent company level total of PLHTIAN (plant level heat input).

9. **Parent Company Ozone Season Heat Input (PRHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the parent company.

10. **Parent Company Annual Net Generation (PRNGENAN) –**
    This field, in MWh, is reported net generation for the parent company.

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11. **Parent Company Ozone Season Net Generation (PRNGENOZ) –**
This field, in MWh, is the five month ozone season (May-September) net generation for the parent company.

12. **Parent Company Annual NO_x Emissions (PRNOXAN) –**
This field, in tons, is the parent company level total of PLNOXAN (plant level annual NO_x emissions).

13. **Parent Company Ozone Season NO_x Emissions (PRNOXOZ) –**
This field, in tons, is the parent company level total of PLNOXOZ (plant level ozone season NO_x emissions).

14. **Parent Company Annual SO_2 Emissions (PRSO2AN) –**
This field, in tons, is the parent company level total of PLSO2AN (plant level annual SO_2 emissions).

15. **Parent Company Annual CO_2 Emissions (PRCO2AN) –**
This field, in tons, is the parent company level total of PLCO2AN (plant level annual CO_2 emissions).

16. **Parent Company Annual Mercury Emissions (PRHGAN) –**
This field, in lbs, is the parent company level total of PLHGAN (plant level annual Hg emissions).

17. **Parent Company Annual NO_x Output Emission Rate (PRNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
PRNOXRTA = 2000 * PRNOXAN/PRNGENAN.

18. **Parent Company Ozone Season NO_x Output Emission Rate (PRNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
PRNOXRTO = 2000 * PRCNOXOZ/PRNGENOZ.

19. **Parent Company Annual SO_2 Output Emission Rate (PRSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PRSO2RTA = 2000 * PRSO2AN/PRNGENAN.

20. **Parent Company Annual CO_2 Output Emission Rate (PRCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PRCO2RTA = 2000 * PRCO2AN/PRNGENAN.

21. **Parent Company Annual Mercury Output Emission Rate (PRHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
PRHGRTA = PRHGAN/(PRNGENAN * 1000).

22. **Parent Company Annual NO_x Input Emission Rate (PRNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
PRNOXRA = 2000 * PRNOXAN/PRHTIAN

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23. **Parent Company Ozone Season NO_x Input Emission Rate (PRNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
PRNOXRO = 2000 * PRNOXOZ/PRHTIOZ

24. **Parent Company Annual SO_2 Input Emission Rate (PRSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PRSO2RA = 2000 * PRSO2AN/PRHTIAN

25. **Parent Company Annual CO_2 Input Emission Rate (PRCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PRCO2RA = 2000 * PRCO2AN/PRHTIAN

26. **Parent Company Annual Mercury Input Emission Rate (PRHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
PRHGRA = PRHGAN/(PRHTIAN/1000).

27. **Parent Company Coal Annual NO_x Output Emission Rate (PRCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. **Parent Company Oil Annual NO_x Output Emission Rate (PRONOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

29. **Parent Company Gas Annual NO_x Output Emission Rate (PRGNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. **Parent Company Fossil Fuel Annual NO_x Output Emission Rate (PRFSNXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

31. **Parent Company Coal Ozone Season NO_x Output Emission Rate (PRCNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. **Parent Company Oil Ozone Season NO_x Output Emission Rate (PRONXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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33. **Parent Company Gas Ozone Season NO_x Output Emission Rate (PRGNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

34. **Parent Company Fossil Fuel Ozone Season NO_x Output Emission Rate (PRFSNORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

35. **Parent Company Coal Annual SO_2 Output Emission Rate (PRCSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. **Parent Company Oil Annual SO_2 Output Emission Rate (PROSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. **Parent Company Gas Annual SO_2 Output Emission Rate (PRGSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. **Parent Company Fossil Fuel Annual SO_2 Output Emission Rate (PRFSS2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

39. **Parent Company Coal Annual CO_2 Output Emission Rate (PRCCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. **Parent Company Oil Annual CO_2 Output Emission Rate (PROCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. **Parent Company Gas Annual CO_2 Output Emission Rate (PRGCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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42. **Parent Company Fossil Fuel Annual CO_2 Output Emission Rate (PRFSC2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

43. **Parent Company Coal Annual Mercury Output Emission Rate (PRCHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. **Parent Company Fossil Fuel Annual Mercury Output Emission Rate (PRFSHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

45. **Parent Company Coal Annual NO_x Input Emission Rate (PRCNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. **Parent Company Oil Annual NO_x Input Emission Rate (PRONOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

47. **Parent Company Gas Annual NO_x Input Emission Rate (PRGNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. **Parent Company Fossil Fuel Annual NO_x Input Emission Rate (PRFSNXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

49. **Parent Company Coal Ozone Season NO_x Input Emission Rate (PRCNXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. **Parent Company Oil Ozone Season NO_x Input Emission Rate (PRONXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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51. **Parent Company Gas Ozone Season NO_x Input Emission Rate (PRGNXOR) –** This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

52. **Parent Company Fossil Fuel Ozone Season NO_x Input Emission Rate (PRFSNOR) –** This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

53. **Parent Company Coal Annual SO_2 Input Emission Rate (PRCSO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. **Parent Company Oil Annual SO_2 Input Emission Rate (PROSO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. **Parent Company Gas Annual SO_2 Input Emission Rate (PRGSO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. **Parent Company Fossil Fuel Annual SO_2 Input Emission Rate (PRFSS2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

57. **Parent Company Coal Annual CO_2 Input Emission Rate (PRCCO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. **Parent Company Oil Annual CO_2 Input Emission Rate (PROCO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. **Parent Company Gas Annual CO_2 Input Emission Rate (PRGCO2R) –** This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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60. Parent Company Fossil Fuel Annual CO_2 Input Emission Rate (PRFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

61. Parent Company Coal Annual Mercury Input Emission Rate (PRCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. Parent Company Fossil Fuel Annual Mercury Input Emission Rate (PRFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

63. Parent Company Annual Coal Net Generation (PRGENACL) –
This field, in MWh, contains the parent company net generation for coal.

64. Parent Company Annual Oil Net Generation (PRGENAOL) –
This field, in MWh, contains the parent company net generation for oil.

65. Parent Company Annual Gas Net Generation (PRGENAGS) –
This field, in MWh, contains the parent company net generation for natural gas.

66. Parent Company Annual Nuclear Net Generation (PRGENANC) –
This field, in MWh, contains the parent company net generation for nuclear.

67. Parent Company Annual Hydro Net Generation (PRGENAHY) –
This field, in MWh, contains the parent company net generation for hydro.

68. Parent Company Annual Biomass/Wood Net Generation (PRGENABM) –
This field, in MWh, contains the parent company net generation for biomass/wood.

69. Parent Company Annual Wind Net Generation (PRGENAWI) –
This field, in MWh, contains the parent company net generation for wind.

70. Parent Company Annual Solar Net Generation (PRGENASO) –
This field, in MWh, contains the parent company net generation for solar.

71. Parent Company Annual Geothermal Net Generation (PRGENAGT) –
This field, in MWh, contains the parent company net generation for geothermal.

72. Parent Company Annual Other Fossil Net Generation (PRGENAOF) –
This field, in MWh, contains the parent company net generation for other fossil.

73. Parent Company Annual Solid Waste Net Generation (PCGENASW) –
This field, in MWh, contains the parent company net generation for solid waste.

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74. Parent Company Annual Total Nonrenewables Net Generation (PRGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the parent company.

75. Parent Company Annual Total Renewables Net Generation (PRGENATR) –
This field, in MWh, contains the total renewable net generation for the parent company.

76. Parent Company Annual Total Nonhydro Renewables Net Generation (PRGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the parent company.

77. Parent Company Coal Generation Percent (PRCLPR) –
This field, a percent, is calculated as follows:
PRCLPR = 100 * PRGENACL/PRNGENAN.

78. Parent Company Oil Generation Percent (PROLPR) –
This field, a percent, is calculated as follows:
PROLPR = 100 * PRGENAOL/PRNGENAN.

79. Parent Company Gas Generation Percent (PRGSPR) –
This field, a percent, is calculated as follows:
PRGSPR = 100 * PRGENAGS/PRNGENAN.

80. Parent Company Nuclear Generation Percent (PRNCPR) –
This field, a percent, is calculated as follows:
PRNCPR = 100 * PRGENANC/PRNGENAN.

81. Parent Company Hydro Generation Percent (PRHYPR) –
This field, a percent, is calculated as follows:
PRHYPR = 100 * PRGENAHY/PRNGENAN.

82. Parent Company Biomass/Wood Generation Percent (PRBMPR) –
This field, a percent, is calculated as follows:
PRBMPR = 100 * PRGENABM/PRNGENAN.

83. Parent Company Wind Generation Percent (PRWIPR) –
This field, a percent, is calculated as follows:
PRWIPR = 100 * PRGENAWI/PRNGENAN.

84. Parent Company Solar Generation Percent (PRSOPR) –
This field, a percent, is calculated as follows:
PRSOPR = 100 * PRGENASO/PRNGENAN.

85. Parent Company Geothermal Generation Percent (PRGTPR) –
This field, a percent, is calculated as follows:
PRGTPR = 100 * PRGENAGT/PRNGENAN.

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86. Parent Company Other Fossil Generation Percent (PROFPR) –
This field, a percent, is calculated as follows:
PROFPR = 100 * PRGENAOF/PRNGENAN.

87. Parent Company Solid Waste Generation Percent (PRSWPR) –
This field, a percent, is calculated as follows:
PRSWPR = 100 (PRGENASW/PRGENAN.

88. Parent Company Total Nonrenewables Generation Percent (PRTNPR) –
This field, a percent, is calculated as follows:
PRTNPR = 100 * PRGENATN/PRNGENAN.

89. Parent Company Total Renewables Generation Percent (PRTRPR) –
This field, a percent, is calculated as follows:
PRTRPR = 100 * PRGENATR/PRNGENAN.

90. Parent Company Total Nonhydro Renewables Generation Percent (PRTHPR) –
This field, a percent, is calculated as follows:
PRTHPR = 100 * PRGENATH/PRNGENAN.

91. Parent Company Inclusion of Nonutilities Flag (PRTYP) –
This field indicates whether there are any nonutilities in the parent company. A value of 1 indicates that there is, and a value of 0 indicates that there is not.

92. eGRID97 1997 File Location (Operator)-Based Parent Company Sequence Number (SEQPRP97) –
This field contains the location (operator)-based parent company sequence number for eGRID97. If it is -99 or N/A, then the parent company was not included in eGRID97 with 1997 data.

93. eGRID2000 1998 File Location (Operator)-Based Parent Company Sequence Number (SEQPRP98) –
This field contains the location (operator)-based parent company sequence number for eGRID2000. If it is -99 or N/A, then the parent company was not included in eGRID2000 with 1998 data.

THE EGRDPCAO FILE

There are 101 variables in the ninth subfile, EGRDPCAO, which contains owner-based power control area (PCA) data. All generation and emission values are derived by aggregating from the plant level based on the PCA in which the utility plant's owner(s) or nonutility plant's utility service area is (are) located.

1. **eGRID2002 2000 File Owner-Based Power Control Area Sequence Number (SEQPCO00) –**
   The owner-based power control area records in this data file are sorted by PCA name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Owner-Based Power Control Area Sequence Number (SEQPCO99) –**
   The owner-based power control area records in this data file are sorted by PCA name, and are assigned a unique sequential number beginning with 1.

3. **Power Control Area Name (PCANAME) –**
   This field contains the name of the owner-based power control area (PCA).
   Source: EIA-861, FERC-714

4. **Power Control Area ID (PCAID) –**
   This unique identifier is derived from the company code for the respondent for the control area. It will be zero for nonutility EGCs.
   Source: EIA-861, FERC-714

5. **NERC Region Acronym (NERC) –**
   This field includes the acronym for one of the 13 assigned NERC regions.
   Source: EIA-861, EIA-860A

6. **NERC Number Associated with NERC Region (NERCNUM) –**
   This field includes the NERC number associated with the NERC region. eGRID assigns negative integers to the eGRID designated NERC region.

7. **Change (CHANGE) –**
   For 1998, 1999, and 2000 data years, this field has a value of "Y" if a change has occurred (e.g., name change, it absorbed/merged with another PCA, it is a new PCA, it has a new NERC, or there is a pending change). The user can refer to the EGRDPCCH Note file #20 for further details. The value is "N" otherwise.

8. **Nonutility PCA Emission Rate Suppression Flag (SUPPRER) –**
   For 1996 and 1997 data years, this field indicates whether the PCA nonutility emissions are actual aggregated data (=0) or whether they are estimated data (=1). SUPPRER=9 if the PCA only includes utilities.

9. **Nonutility PCA Resource Mix Suppression Flag (SUPPRRM) –**
   For 1996 and 1997 data years, this field indicates whether the PCA nonutility fuel type generation are actual aggregated data (=0) or whether they are estimated data (=1). SUPPRRM=9 if the PCA only includes utilities.

THE EGRDPCAO FILE

10. **PCA Capacity (NAMEPCAP) –**
This field, in MWh, indicates the total nameplate capacity for the PCA.

11. **PCA Annual Heat Input (PCHTIAN) –**
This field, in MMBtu, is the PCA level total of PLHTIAN (plant level heat input).

12. **PCA Ozone Season Heat Input (PCHTIOZ) –**
This field is the five month ozone season (May-September) heat input for the PCA.

13. **PCA Annual Net Generation (PCNGENAN) –**
This field, in MWh, is reported net generation for the PCA.

14. **PCA Ozone Season Net Generation (PCNGENOZ) –**
This field, in MWh, is the five month ozone season (May-September) net generation for the PCA.

15. **PCA Annual NO_x Emissions (PCNOXAN) –**
This field, in tons, is the PCA level total of PLNOXAN (plant level annual NO_x emissions).

16. **PCA Ozone Season NO_x Emissions (PCNOXOZ) –**
This field, in tons, is the PCA level total of PLNOXOZ (plant level ozone season NO_x emissions).

17. **PCA Annual SO_2 Emissions (PCSO2AN) –**
This field, in tons, is the PCA level total of PLSO2AN (plant level annual SO_2 emissions).

18. **PCA Annual CO_2 Emissions (PCCO2AN) –**
This field, in tons, is the PCA level total of PLCO2AN (plant level annual CO_2 emissions).

19. **PCA Annual Mercury Emissions (PCHGAN) –**
This field, in lbs, is the PCA level total of PLHGAN (plant level annual Hg emissions).

20. **PCA Annual NO_x Output Emission Rate (PCNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
PCNOXRTA = 2000 * PCNOXAN/PCNGENAN.

21. **PCA Ozone Season NO_x Output Emission Rate (PCNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
PCNOXRTO = 2000 * PCNOXOZ/PCNGENOZ.

22. **PCA Annual SO_2 Output Emission Rate (PCSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PCSO2RTA = 2000 * PCSO2AN/PCNGENAN.

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23. **PCA Annual CO_2 Output Emission Rate (PCCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PCCO2RTA = 2000 * PCCO2AN/PCNGENAN.

24. **PCA Annual Mercury Output Emission Rate (PCHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
PCHGRTA = PCHGAN/(PCNGENAN * 1000).

25. **PCA Annual NO_x Input Emission Rate (PCNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
PCNOXRA = 2000 * PCNOXAN/PCHTIAN

26. **PCA Ozone Season NO_x Input Emission Rate (PCNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
PCNOXRO = 2000 * PCNOXOZ/PCHTIOZ

27. **PCA Annual SO_2 Input Emission Rate (PCSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PCSO2RA = 2000 * PCSO2AN/PCHTIAN

28. **PCA Annual CO_2 Input Emission Rate (PCCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PCCO2RA = 2000 * PCCO2AN/PCHTIAN

29. **PCA Annual Mercury Input Emission Rate (PCHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
PCHGRA = PCHGAN/(PCHTIAN/1000).

30. **PCA Coal Annual NO_x Output Emission Rate (PCCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

31. **PCA Oil Annual NO_x Output Emission Rate (PCONOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. **PCA Gas Annual NO_x Output Emission Rate (PCGNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

33. **PCA Fossil Fuel Annual NO_x Output Emission Rate (PCFSNXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

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34. PCA Coal Ozone Season NO_x Output Emission Rate (PCCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

35. PCA Oil Ozone Season NO_x Output Emission Rate (PCONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. PCA Gas Ozone Season NO_x Output Emission Rate (PCGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. PCA Fossil Fuel Ozone Season NO_x Output Emission Rate (PCFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

38. PCA Coal Annual SO_2 Output Emission Rate (PCCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. PCA Oil Annual SO_2 Output Emission Rate (PCOSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. PCA Gas Annual SO_2 Output Emission Rate (PCGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. PCA Fossil Fuel Annual SO_2 Output Emission Rate (PCFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

42. PCA Coal Annual CO_2 Output Emission Rate (PCCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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43. PCA Oil Annual CO_2 Output Emission Rate (PCOCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. PCA Gas Annual CO_2 Output Emission Rate (PCGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

45. PCA Fossil Fuel Annual CO_2 Output Emission Rate (PCFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

46. PCA Coal Annual Mercury Output Emission Rate (PCCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

47. PCA Fossil Fuel Annual Mercury Output Emission Rate (PCFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

48. PCA Coal Annual NO_x Input Emission Rate (PCCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

49. PCA Oil Annual NO_x Input Emission Rate (PCONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. PCA Gas Annual NO_x Input Emission Rate (PCGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

51. PCA Fossil Fuel Annual NO_x Input Emission Rate (PCFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

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52. PCA Coal Ozone Season NO_x Input Emission Rate (PCCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

53. PCA Oil Ozone Season NO_x Input Emission Rate (PCONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. PCA Gas Ozone Season NO_x Input Emission Rate (PCGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. PCA Fossil Fuel Ozone Season NO_x Input Emission Rate (PCFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

56. PCA Coal Annual SO_2 Input Emission Rate (PCCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. PCA Oil Annual SO_2 Input Emission Rate (PCOSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. PCA Gas Annual SO_2 Input Emission Rate (PCGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. PCA Fossil Fuel Annual SO_2 Input Emission Rate (PCFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

60. PCA Coal Annual CO_2 Input Emission Rate (PCCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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61. PCA Oil Annual CO_2 Input Emission Rate (PCOCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. PCA Gas Annual CO_2 Input Emission Rate (PCGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

63. PCA Fossil Fuel Annual CO_2 Input Emission Rate (PCFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

64. PCA Coal Annual Mercury Input Emission Rate (PCCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

65. PCA Fossil Fuel Annual Mercury Input Emission Rate (PCFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

66. PCA Annual Coal Net Generation (PCGENACL) –
This field, in MWh, contains the PCA net generation for coal.

67. PCA Annual Oil Net Generation (PCGENAOL) –
This field, in MWh, contains the PCA net generation for oil.

68. PCA Annual Gas Net Generation (PCGENAGS) –
This field, in MWh, contains the PCA net generation for natural gas.

69. PCA Annual Nuclear Net Generation (PCGENANC) –
This field, in MWh, contains the PCA net generation for nuclear.

70. PCA Annual Hydro Net Generation (PCGENAHY) –
This field, in MWh, contains the PCA net generation for hydro. For 1996 and 1997 data years, this field is the sum of the PCA utility hydro and PCA nonutility aggregated annual unspecified hydro net generation (#119 in EGRDPCAL file).

71. PCA Annual Biomass/Wood Net Generation (PCGENABM) –
This field, in MWh, contains the PCA net generation for biomass/wood.

72. PCA Annual Wind Net Generation (PCGENAWI) –
This field, in MWh, contains the PCA net generation for wind.

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73. PCA Annual Solar Net Generation (PCGENASO) –
This field, in MWh, contains the PCA net generation for solar.

74. PCA Annual Geothermal Net Generation (PCGENAGT) –
This field, in MWh, contains the PCA net generation for geothermal.

75. PCA Annual Other Fossil Net Generation (PCGENAOF) –
This field, in MWh, contains the PCA net generation for other fossil.

76. PCA Annual Solid Waste Net Generation (PCGENASW) –
This field, in MWh, contains the PCA net generation for solid waste.

77. PCA Annual Unspecified Fossil Net Generation (PCGENAFS) –
For 1996 and 1997 data years, this field, in MWh, contains the PCA net generation for nonutility fossil fuel units. Coal, oil, and natural gas generation are included. For PCAs in the ERCOT and FRCC NERC regions, this category includes some hydro power, which could not be segregated from fossil energy; for PCAs in the ASCC and HICC NERC regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy. The field SUPPRRM indicates whether this field contains actual or estimated data.

78. PCA Annual Unspecified Renewable Net Generation (PCGENARW) –
For 1996 and 1997 data years, this field, in MWh, contains the PCA net generation for nonutility renewable units. Wind, biomass, solar, geothermal, and solid waste generation are included. For PCAs in the ASCC and HICC NERC regions, PCGENARW is included in PCGENAFS, so PCGENARW = -99 or N/A. The field SUPPRRM indicates whether this is actual or estimated data.

79. PCA Annual Total Nonrenewables Net Generation (PCGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the PCA.

80. PCA Annual Total Renewables Net Generation (PCGENATR) –
This field, in MWh, contains the total renewable net generation for the PCA.

81. PCA Annual Total Nonhydro Renewables Net Generation (PCGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the PCA.

82. PCA Coal Generation Percent (PCCLPR) –
This field, a percent, is calculated as follows:
PCCLPR = 100 * PCGENACL/PCNGENAN.

83. PCA Oil Generation Percent (PCOLPR) –
This field, a percent, is calculated as follows:
PCOLPR = 100 * PCGENAOL/PCNGENAN.

84. PCA Gas Generation Percent (PCGSPR) –
This field, a percent, is calculated as follows:
PCGSPR = 100 * PCGENAGS/PCNGENAN.

THE EGRDPCAO FILE

85. PCA Nuclear Generation Percent (PCNCPR) –
This field, a percent, is calculated as follows:
PCNCPR = 100 * PCGENANC/PCNGENAN.

86. PCA Hydro Generation Percent (PCHYPR) –
This field, a percent, is calculated as follows:
PCHYPR = 100 * PCGENAHY/PCNGENAN.

87. PCA Biomass/Wood Generation Percent (PCBMPR) –
This field, a percent, is calculated as follows:
PCBMPR = 100 * PCGENABM/PCNGENAN.

88. PCA Wind Generation Percent (PCWIPR) –
This field, a percent, is calculated as follows:
PCWIPR = 100 * PCGENAWI/PCNGENAN.

89. PCA Solar Generation Percent (PCSOPR) –
This field, a percent, is calculated as follows:
PCSOPR = 100 * PCGENASO/PCNGENAN.

90. PCA Geothermal Generation Percent (PCGTPR) –
This field, a percent, is calculated as follows:
PCGTPR = 100 * PCGENAGT/PCNGENAN.

91. PCA Other Fossil Generation Percent (PCOFPR) –
This field, a percent, is calculated as follows:
PCOFPR = 100 * PCGENAOF/PCNGENAN.

92. PCA Solid Waste Generation Percent (PCSWPR) –
This field, a percent, is calculated as follows:
PCSWPR = 100 (PCGENASW/PCGENAN.

93. PCA Unspecified Fossil Generation Percent (PCFSPR) –
This field, a percent, is calculated as follows:
PCFSPR = 100 (PCGENAFS/PCNGENAN

94. PCA Unspecified Renewable Generation Percent (PCRWPR) –
This field, a percent, is calculated as follows:
PCRWPR = 100 (PCGENARW/PCNGENAN

95. PCA Total Nonrenewables Generation Percent (PCTNPR) –
This field, a percent, is calculated as follows:
PCTNPR = 100 * PCGENATN/PCNGENAN.

96. PCA Total Renewables Generation Percent (PCTRPR) –
This field, a percent, is calculated as follows:
PCTRPR = 100 * PCGENATR/PCNGENAN.

THE EGRDPCAO FILE

97. PCA Total Nonhydro Renewables Generation Percent (PCTHPR) –
This field, a percent, is calculated as follows:
PCTHPR = 100 * PCGENATH/PCNGENAN.

98. PCA Inclusion of Nonutilities Flag (PCTYP) –
This field indicates whether there are any nonutilities in the PCA. A value of 1 indicates that there are, and a value of 0 indicates that there are not.

99. eGRID96 1996 File Owner-Based Power Control Area Sequence Number (SEQPCAO) –
This field contains the owner-based PCA sequence number from eGRID96. If it is -99 or N/A, then the PCA was not included in eGRID96.

100. eGRID97 1997 File Owner-Based Power Control Area Sequence Number (SEQPCO97) –
This field contains the owner-based PCA sequence number from eGRID97. If it is -99 or N/A, then the PCA was not included in eGRID97 with 1997 data.

101. eGRID2000 1998 File Owner-Based Power Control Area Sequence Number (SEQPCO98) –
This field contains the owner-based PCA sequence number from eGRID2000. If it is -99 or N/A, then the PCA was not included in eGRID2000 with 1998 data.

THE EGRDPCAL FILE

There are 124 variables in the tenth subfile, EGRDPCAL, which contains location (operator)-based power control area (PCA) data. All generation and emission values are derived by aggregating from the plant level based on the PCA in which the utility plant's operator or nonutility plant's utility service area is located.

1. **eGRID2002 2000 File Location (Operator)-Based Power Control Area Sequence Number (SEQPCP00) –**
   The location (operator)-based power control area records in this data file are sorted by PCA name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Location (Operator)-Based Power Control Area Sequence Number (SEQPCP99) –**
   The location (operator)-based power control area records in this data file are sorted by PCA name, and are assigned a unique sequential number beginning with 1.

3. **Power Control Area Name (PCANAME) –**
   This field contains the name of the location (operator)-based power control area (PCA).
   Source: EIA-861, FERC-714

4. **Power Control Area ID (PCAID) –**
   This unique identifier is derived from the company code for the respondent for the control area. It will be zero for nonutility EGCs.
   Source: EIA-861, FERC-714

5. **NERC Region Acronym (NERC) –**
   This field includes the acronym for one of the 13 assigned NERC regions.
   Source: EIA-861, EIA-860A

6. **NERC Number Associated with NERC Region (NERCNUM) –**
   This field includes the NERC number associated with the NERC region. eGRID assigns negative integers to the eGRID designated NERC region.

7. **Change (CHANGE) –**
   For 1998, 1999, and 2000 data years, this field has a value of "Y" if a change has occurred (e.g., name change, it absorbed/merged with another PCA, it is a new PCA, it has a new NERC, or there is a pending change). The user can refer to the EGRDPCCH Note file #20 for further details. The value is "N" otherwise.

8. **Nonutility PCA Emission Rate Suppression Flag (SUPPRER) –**
   For 1996 and 1997 data years, this field indicates whether the PCA nonutility emissions is actual aggregated data (=0) or whether it is estimated data (=1). SUPPRER=9 if the PCA only includes utilities.

9. **Nonutility PCA Resource Mix Suppression Flag (SUPPRRM) –**
   For 1996 and 1997 data years, this field indicates whether the PCA nonutility fuel type generation is actual aggregated data (=0) or whether it is estimated data (=1). SUPPRRM=9 if the PCA only includes utilities.

THE EGRDPCAL FILE

10. **PCA Capacity (NAMEPCAP) –**
This field, in MWh, indicates the total nameplate capacity for the PCA.

11. **PCA Annual Heat Input (PCHTIAN) –**
This field, in MMBtu, is the PCA level total of PLHTIAN (plant level heat input).

12. **PCA Ozone Season Heat Input (PCHTIOZ) –**
This field is the five month ozone season (May-September) heat input for the PCA.

13. **PCA Annual Net Generation (PCNGENAN) –**
This field, in MWh, is reported net generation for the PCA.

14. **PCA Ozone Season Net Generation (PCNGENOZ) –**
This field, in MWh, is the five month ozone season (May-September) net generation for the PCA.

15. **PCA Annual NO_x Emissions (PCNOXAN) –**
This field, in tons, is the PCA level total of PLNOXAN (plant level annual NO_x emissions).

16. **PCA Ozone Season NO_x Emissions (PCNOXOZ) –**
This field, in tons, is the PCA level total of PLNOXOZ (plant level ozone season NO_x emissions).

17. **PCA Annual SO_2 Emissions (PCSO2AN) –**
This field, in tons, is the PCA level total of PLSO2AN (plant level annual SO_2 emissions).

18. **PCA Annual CO_2 Emissions (PCCO2AN) –**
This field, in tons, is the PCA level total of PLCO2AN (plant level annual CO_2 emissions).

19. **PCA Annual Mercury Emissions (PCHGAN) –**
This field, in lbs, is the PCA level total of PLHGAN (plant level annual Hg emissions).

20. **PCA Annual NO_x Output Emission Rate (PCNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
PCNOXRTA = 2000 * PCNOXAN/PCNGENAN.

21. **PCA Ozone Season NO_x Output Emission Rate (PCNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
PCNOXRTO = 2000 * PCNOXOZ/PCNGENOZ.

22. **PCA Annual SO_2 Output Emission Rate (PCSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PCSO2RTA = 2000 * PCSO2AN/PCNGENAN.

THE EGRDPCAL FILE

23. **PCA Annual CO_2 Output Emission Rate (PCCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
PCCO2RTA = 2000 * PCCO2AN/PCNGENAN.

24. **PCA Annual Mercury Output Emission Rate (PCHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
PCHGRTA = PCHGAN/(PCNGENAN * 1000).

25. **PCA Annual NO_x Input Emission Rate (PCNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
PCNOXRA = 2000 * PCNOXAN/PCHTIAN

26. **PCA Ozone Season NO_x Input Emission Rate (PCNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
PCNOXRO = 2000 * PCNOXOZ/PCHTIOZ

27. **PCA Annual SO_2 Input Emission Rate (PCSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PCSO2RA = 2000 * PCSO2AN/PCHTIAN

28. **PCA Annual CO_2 Input Emission Rate (PCCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
PCCO2RA = 2000 * PCCO2AN/PCHTIAN

29. **PCA Annual Mercury Input Emission Rate (PCHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
PCHGRA = PCHGAN/(PCHTIAN/1000).

30. **PCA Coal Annual NO_x Output Emission Rate (PCCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

31. **PCA Oil Annual NO_x Output Emission Rate (PCONOXRT) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

32. **PCA Gas Annual NO_x Output Emission Rate (PCGNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

33. **PCA Fossil Fuel Annual NO_x Output Emission Rate (PCFSNXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

THE EGRDPCAL FILE

34. PCA Coal Ozone Season NO_x Output Emission Rate (PCCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

35. PCA Oil Ozone Season NO_x Output Emission Rate (PCONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. PCA Gas Ozone Season NO_x Output Emission Rate (PCGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. PCA Fossil Fuel Ozone Season NO_x Output Emission Rate (PCFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

38. PCA Coal Annual SO_2 Output Emission Rate (PCCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. PCA Oil Annual SO_2 Output Emission Rate (PCOSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. PCA Gas Annual SO_2 Output Emission Rate (PCGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. PCA Fossil Fuel Annual SO_2 Output Emission Rate (PCFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

42. PCA Coal Annual CO_2 Output Emission Rate (PCCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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43. PCA Oil Annual CO_2 Output Emission Rate (PCOCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. PCA Gas Annual CO_2 Output Emission Rate (PCGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

45. PCA Fossil Fuel Annual CO_2 Output Emission Rate (PCFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

46. PCA Coal Annual Mercury Output Emission Rate (PCCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

47. PCA Fossil Fuel Annual Mercury Output Emission Rate (PCFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

48. PCA Coal Annual NO_x Input Emission Rate (PCCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

49. PCA Oil Annual NO_x Input Emission Rate (PCONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. PCA Gas Annual NO_x Input Emission Rate (PCGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

51. PCA Fossil Fuel Annual NO_x Input Emission Rate (PCFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

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52. PCA Coal Ozone Season NO_x Input Emission Rate (PCCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

53. PCA Oil Ozone Season NO_x Input Emission Rate (PCONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. PCA Gas Ozone Season NO_x Input Emission Rate (PCGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. PCA Fossil Fuel Ozone Season NO_x Input Emission Rate (PCFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

56. PCA Coal Annual SO_2 Input Emission Rate (PCCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. PCA Oil Annual SO_2 Input Emission Rate (PCOSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. PCA Gas Annual SO_2 Input Emission Rate (PCGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. PCA Fossil Fuel Annual SO_2 Input Emission Rate (PCFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

60. PCA Coal Annual CO_2 Input Emission Rate (PCCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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61. PCA Oil Annual CO_2 Input Emission Rate (PCOCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. PCA Gas Annual CO_2 Input Emission Rate (PCGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

63. PCA Fossil Fuel Annual CO_2 Input Emission Rate (PCFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

64. PCA Coal Annual Mercury Input Emission Rate (PCCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

65. PCA Fossil Fuel Annual Mercury Input Emission Rate (PCFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

66. PCA Annual Coal Net Generation (PCGENACL) –
This field, in MWh, contains the PCA net generation for coal.

67. PCA Annual Oil Net Generation (PCGENAOL) –
This field, in MWh, contains the PCA net generation for oil.

68. PCA Annual Gas Net Generation (PCGENAGS) –
This field, in MWh, contains the PCA net generation for natural gas.

69. PCA Annual Nuclear Net Generation (PCGENANC) –
This field, in MWh, contains the PCA net generation for nuclear.

70. PCA Annual Hydro Net Generation (PCGENAHY) –
This field, in MWh, contains the PCA net generation for hydro. For 1996 and 1997 data years, this field is the sum of the PCA utility hydro and PCA nonutility aggregated annual unspecified hydro net generation (see #119).

71. PCA Annual Biomass/Wood Net Generation (PCGENABM) –
This field, in MWh, contains the PCA net generation for biomass/wood.

72. PCA Annual Wind Net Generation (PCGENAWI) –
This field, in MWh, contains the PCA net generation for wind.

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73. PCA Annual Solar Net Generation (PCGENASO) –
This field, in MWh, contains the PCA net generation for solar.

74. PCA Annual Geothermal Net Generation (PCGENAGT) –
This field, in MWh, contains the PCA net generation for geothermal.

75. PCA Annual Other Fossil Net Generation (PCGENAOF) –
This field, in MWh, contains the PCA net generation for other fossil.

76. PCA Annual Solid Waste Net Generation (PCGENASW) –
This field, in MWh, contains the PCA net generation for solid waste.

77. PCA Annual Unspecified Fossil Net Generation (PCGENAFS) –
For 1996 and 1997 data years, this field, in MWh, contains the PCA net generation for nonutility fossil fuel units. Coal, oil, and natural gas generation are included. For PCAs in the ERCOT and FRCC NERC regions, this category includes some hydro power, which could not be segregated from fossil energy; for PCAs in the ASCC and HICC NERC regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy. The field SUPPRRM indicates whether this field contains actual or estimated data.

78. PCA Annual Unspecified Renewable Net Generation (PCGENARW) –
For 1996 and 1997 data years, this field, in MWh, contains the PCA net generation for nonutility renewable units. Wind, biomass, solar, geothermal, and solid waste generation are included. For PCAs in the ASCC and HICC NERC regions, PCGENARW is included in PCGENAFS, so PCGENARW = -99 or N/A. The field SUPPRRM indicates whether this is actual or estimated data.

79. PCA Annual Total Nonrenewables Net Generation (PCGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the PCA.

80. PCA Annual Total Renewables Net Generation (PCGENATR) –
This field, in MWh, contains the total renewable net generation for the PCA.

81. PCA Annual Total Nonhydro Renewables Net Generation (PCGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the PCA.

82. PCA Coal Generation Percent (PCCLPR) –
This field, a percent, is calculated as follows:
PCCLPR = 100 * PCGENACL/PCNGENAN.

83. PCA Oil Generation Percent (PCOLPR) –
This field, a percent, is calculated as follows:
PCOLPR = 100 * PCGENAOL/PCNGENAN.

84. PCA Gas Generation Percent (PCGSPR) –
This field, a percent, is calculated as follows:
PCGSPR = 100 * PCGENAGS/PCNGENAN.

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85. PCA Nuclear Generation Percent (PCNCPR) –
This field, a percent, is calculated as follows:
PCNCPR = 100 * PCGENANC/PCNGENAN.

86. PCA Hydro Generation Percent (PCHYPR) –
This field, a percent, is calculated as follows:
PCHYPR = 100 * PCGENAHY/PCNGENAN.

87. PCA Biomass/Wood Generation Percent (PCBMPR) –
This field, a percent, is calculated as follows:
PCBMPR = 100 * PCGENABM/PCNGENAN.

88. PCA Wind Generation Percent (PCWIPR) –
This field, a percent, is calculated as follows:
PCWIPR = 100 * PCGENAWI/PCNGENAN.

89. PCA Solar Generation Percent (PCSOPR) –
This field, a percent, is calculated as follows:
PCSOPR = 100 * PCGENASO/PCNGENAN.

90. PCA Geothermal Generation Percent (PCGTPR) –
This field, a percent, is calculated as follows:
PCGTPR = 100 * PCGENAGT/PCNGENAN.

91. PCA Other Fossil Generation Percent (PCOFPR) –
This field, a percent, is calculated as follows:
PCOFPR = 100 * PCGENAOF/PCNGENAN.

92. PCA Solid Waste Generation Percent (PCSWPR) –
This field, a percent, is calculated as follows:
PCSWPR = 100 (PCGENASW/PCGENAN.

93. PCA Unspecified Fossil Generation Percent (PCFSPR) –
This field, a percent, is calculated as follows:
PCFSPR = 100 (PCGENAFS/PCNGENAN

94. PCA Unspecified Renewable Generation Percent (PCRWPR) –
This field, a percent, is calculated as follows:
PCRWPR = 100 (PCGENARW/PCNGENAN

95. PCA Total Nonrenewables Generation Percent (PCTNPR) –
This field, a percent, is calculated as follows:
PCTNPR = 100 * PCGENATN/PCNGENAN.

96. PCA Total Renewables Generation Percent (PCTRPR) –
This field, a percent, is calculated as follows:
PCTRPR = 100 * PCGENATR/PCNGENAN.

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97. PCA Total Nonhydro Renewables Generation Percent (PCTHPR) –
This field, a percent, is calculated as follows:
PCTHPR = 100 * PCGENATH/PCNGENAN.

98. PCA Nonutility Aggregated Capacity (NPCMW) –
For 1996 and 1997 data years, this field contains the capacity, in MW, of the nonutility plants aggregated to the PCA level.

99. PCA Nonutility Aggregated Annual Heat Input (NPCHTI) –
For 1996 and 1997 data years, this field contains the heat input, in MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

100. PCA Nonutility Aggregated Ozone Season Heat Input (NPCHTIO) –
For 1996 and 1997 data years, this field contains the five month ozone season (May-September) heat input of the nonutility plants aggregated or estimated to the PCA level. It is calculated as 5/12 (the annual heat input.

101. PCA Nonutility Aggregated Annual NO_x Emissions (NPCNOX) –
For 1996 and 1997 data years, this field contains the NO_x emissions, in tons, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

102. PCA Nonutility Aggregated Ozone Season NO_x Emissions (NPCNOXO) –
For 1996 and 1997 data years, this field contains the five month ozone season (May-September) NO_x emissions of the nonutility plants aggregated or estimated to the PCA level. It is calculated as 5/12 (the annual NO_x emissions.

103. PCA Nonutility Aggregated Annual SO_2 Emissions (NPCSO2) --
For 1996 and 1997 data years, this field contains the SO_2 emissions, in tons, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

104. PCA Nonutility Aggregated Annual CO_2 Emissions (NPCCO2) --
For 1996 and 1997 data years, this field contains the CO_2 emissions, in tons, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

105. PCA Nonutility Aggregated Average Annual NO_x Rate (NPCNRTA) –
For 1996 and 1997 data years, this field contains the average annual NO_x rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

106. PCA Nonutility Aggregated Average Ozone Season NO_x Rate (NPCNRTO) –
For 1996 and 1997 data years, this field contains the average five month ozone season (May-September) NO_x rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

107. PCA Nonutility Aggregated Average Annual SO_2 Rate (NPCSRTA) –
For 1996 and 1997 data years, this field contains the average annual SO_2 rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

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108. PCA Nonutility Aggregated Average Annual CO_2 Rate (NPCCRTA) –
For 1996 and 1997 data years, this field contains the average annual CO_2 rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

109. PCA Nonutility Aggregated Average Annual NO_x Rate (NPCNRA) –
For 1996 and 1997 data years, this field contains the average annual NO_x rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

110. PCA Nonutility Aggregated Average Ozone Season NO_x Rate (NPCNRO) –
For 1996 and 1997 data years, this field contains the average five month ozone season (May-September) NO_x rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

111. PCA Nonutility Aggregated Average Annual SO_2 Rate (NPCSRA) –
For 1996 and 1997 data years, this field contains the average annual SO_2 rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

112. PCA Nonutility Aggregated Average Annual CO_2 Rate (NPCCRA) –
For 1996 and 1997 data years, this field contains the average annual CO_2 rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

113. PCA Total Nonutility Aggregated Annual Net Generation (NPCNGEN) –
For 1996 and 1997 data years, this field contains the net generation, in MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the PCA level.

114. PCA Nonutility Aggregated Ozone Season Net Generation (NPCNGENO) –
For 1996 and 1997 data years, this field contains the five month ozone season (May-September) net generation of the nonutility plants aggregated or estimated to the PCA level. It is calculated as 5/12 (the annual net generation.

115. PCA Nonutility Aggregated Annual Unspecified Fossil Net Generation (NPCGENFS) –
For 1996 and 1997 data years, this field, in MWh, contains the unspecified fossil net generation of the nonutility plants aggregated or estimated (based on SUPPRRM value) to the PCA level. For PCAs in the ERCOT and FRCC NERC regions, this category includes some hydro power which could not be segregated from fossil energy; for PCAs in the ASCC and HICC regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy. This value is the same as that for PCGENAFS.

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116. PCA Nonutility Aggregated Annual Unspecified Hydro Net Generation (NPCGENHY) –
For 1996 and 1997 data years, this field, in MWh, contains the unspecified hydro net generation of the nonutility plants aggregated or estimated (based on SUPPRRM value) to the PCA level. For PCAs in the ERCOT and FRCC NERC regions, NPCGENHY is included in NPCGENFS, so NPCGENHY= -99.

117. PCA Nonutility Aggregated Annual Unspecified Renewable Net Generation (NPCGENRW) –
For 1996 and 1997 data years, this field, in MWh, contains the unspecified renewable net generation of the nonutility plants aggregated or estimated (based on SUPPRRM value) to the PCA level. For PCAs in the ASCC and HICC NERC regions, NPCGENRW is included in NPCGENFS, so NPCGENRW= -99. This value is the same as that for PCGENARW.

118. PCA Nonutility Aggregated Unspecified Fossil Generation Percent (NPCFSPR) –
For 1996 and 1997 data years, this field contains the unspecified fossil resource mix as a percent of total generation for the nonutility plant aggregated or estimated to the PCA level.

119. PCA Nonutility Aggregated Unspecified Hydro Generation Percent (NPCHYPR) –
For 1996 and 1997 data years, this field contains the unspecified hydro resource mix as a percent of total generation for the nonutility plant aggregated or estimated to the PCA level.

120. PCA Nonutility Aggregated Unspecified Renewable Generation Percent (NPCRWPR) –
For 1996 and 1997 data years, this field contains the unspecified renewable resource mix as a percent of total generation for the nonutility plant aggregated or estimated to the PCA level.

121. PCA Inclusion of Nonutilities Flag (PCTYP) –
This field indicates whether there are any nonutilities in the PCA. A value of 1 indicates that there are, and a value of 0 indicates that there are not.

122. eGRID96 1996 File Location (Operator)-Based Power Control Area Sequence Number (SEQPCAP) –
This field contains the location (operator)-based PCA sequence number from eGRID96. If it is -99 or N/A, then the PCA was not included in eGRID96.

123. eGRID97 1997 File Location (Operator)-Based Power Control Area Sequence Number (SEQPCP97) –
This field contains the location (operator)-based PCA sequence number from eGRID97. If it is -99 or N/A, then the PCA was not included in eGRID97 with 1997 data.

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124. eGRID2000 1998 File Location (Operator)-Based Power Control Area Sequence Number (SEQPCP98) –

This field contains the location (operator)-based PCA sequence number from eGRID2000. If it is -99 or N/A, then the PCA was not included in eGRID2000 with 1998 data.

THE EGRDSRO FILE

There are 91 variables in the eleventh subfile, EGRDSRO, which contains 28 owner-based eGRID defined subregions.

1. **eGRID2002 2000 File Owner-Based eGRID Subregion Sequence Number (SEQSRO00) –**
   The owner-based eGRID subregion records in this data file are sorted by eGRID subregion name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Owner-Based eGRID Subregion Sequence Number (SEQSRO99) –**
   The owner-based eGRID subregion records in this data file are sorted by eGRID subregion name, and are assigned a unique sequential number beginning with 1.

3. **eGRID Subregion Name (SRNAME) –**
   This field contains the name of the owner-based eGRID subregion, one of 28 eGRID defined regions of the country.

4. **eGRID Subregion Acronym (SUBRGN) –**
   This field contains the acronym for one of the 28 eGRID subregions.

5. **IPM Subregion Acronym Equivalent to the eGRID Subregion Acronym (IPMEQUIV) –**
   This field contains the acronym for the Integrated Planning Model (IPM) subregion, if it exists, that is equivalent to the eGRID subregion.

6. **NERC Region Acronym (NERC) –**
   This field includes the acronym for one of the 13 assigned NERC regions.
   Sources: EIA-861, EIA-860A

7. **eGRID Subregion Capacity (NAMEPCAP) –**
   This field, in MWh, indicates the total nameplate capacity for the eGRID subregion.

8. **eGRID Subregion Annual Heat Input (SRHTIAN) –**
   This field, in MMBtu, is the eGRID subregion level total of PLHTIAN (plant level heat input).

9. **eGRID Subregion Ozone Season Heat Input (SRHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the eGRID subregion.

10. **eGRID Subregion Annual Net Generation (SRNGENAN) –**
    This field, in MWh, is reported net generation for the eGRID subregion.

11. **eGRID Subregion Ozone Season Net Generation (SRNGENOZ) –**
    This field, in MWh, is the five month ozone season (May-September) net generation for the eGRID subregion.

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12. **eGRID Subregion Annual NO_x Emissions (SRNOXAN) –**
This field, in tons, is the eGRID subregion total of annual NO_x emissions.

13. **eGRID Subregion Ozone Season NO_x Emissions (SRNOXOZ) –**
This field, in tons, is the eGRID subregion total of ozone season NO_x emissions.

14. **eGRID Subregion Annual SO_2 Emissions (SRSO2AN) –**
This field, in tons, is the eGRID subregion total of annual SO_2 emissions.

15. **eGRID Subregion Annual CO_2 Emissions (SRCO2AN) –**
This field, in tons, is the eGRID subregion total of annual CO_2 emissions.

16. **eGRID Subregion Annual Mercury Emissions (SRHGAN) –**
This field, in lbs, is the eGRID subregion total of SRHGAN Hg emissions.

17. **eGRID Subregion Annual NO_x Output Emission Rate (SRNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
SRNOXRTA = 2000 * SRNOXAN/SRNGENAN.

18. **eGRID Subregion Ozone Season NO_x Output Emission Rate (SRNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
SRNOXRTO = 2000 * SRNOXOZ/SRNGENOZ.

19. **eGRID Subregion Annual SO_2 Output Emission Rate (SRSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
SRSO2RTA = 2000 * SRSO2AN/SRNGENAN.

20. **eGRID Subregion Annual CO_2 Output Emission Rate (SRCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
SRCO2RTA = 2000 * SRCO2AN/SRNGENAN.

21. **eGRID Subregion Annual Mercury Output Emission Rate (SRHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
SRHGRTA = SRHGAN/(SRNGENAN * 1000).

22. **eGRID Subregion Annual NO_x Input Emission Rate (SRNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
SRNOXRA = 2000 * SRNOXAN/SRHTIAN

23. **eGRID Subregion Ozone Season NO_x Input Emission Rate (SRNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
SRNOXRO = 2000 * SRNOXOZ/SRHTIOZ

24. **eGRID Subregion Annual SO_2 Input Emission Rate (SRSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
SRSO2RA = 2000 * SRSO2AN/SRHTIAN

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25. **eGRID Subregion Annual CO_2 Input Emission Rate (SRCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
SRCO2RA = 2000 * SRCO2AN/SRHTIAN

26. **eGRID Subregion Annual Mercury Input Emission Rate (SRHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
SRHGRA = SRHGAN/(SRHTIAN/1000).

27. **eGRID Subregion Coal Annual NO_x Output Emission Rate (SRCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. **eGRID Subregion Oil Annual NO_x Output Emission Rate (SRONOXRT) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

29. **eGRID Subregion Gas Annual NO_x Output Emission Rate (SRGNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. **eGRID Subregion Fossil Fuel Annual NO_x Output Emission Rate (SRFSNXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

31. **eGRID Subregion Coal Ozone Season NO_x Output Emission Rate (SRCNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. **eGRID Subregion Oil Ozone Season NO_x Output Emission Rate (SRONXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

33. **eGRID Subregion Gas Ozone Season NO_x Output Emission Rate (SRGNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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34. eGRID Subregion Fossil Fuel Ozone Season NO_x Output Emission Rate (SRFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

35. eGRID Subregion Coal Annual SO_2 Output Emission Rate (SRCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. eGRID Subregion Oil Annual SO_2 Output Emission Rate (SROSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. eGRID Subregion Gas Annual SO_2 Output Emission Rate (SRGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. eGRID Subregion Fossil Fuel Annual SO_2 Output Emission Rate (SRFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

39. eGRID Subregion Coal Annual CO_2 Output Emission Rate (SRCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. eGRID Subregion Oil Annual CO_2 Output Emission Rate (SROCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. eGRID Subregion Gas Annual CO_2 Output Emission Rate (SRGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

42. eGRID Subregion Fossil Fuel Annual CO_2 Output Emission Rate (SRFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

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43. **eGRID Subregion Coal Annual Mercury Output Emission Rate (SRCHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. **eGRID Subregion Fossil Fuel Annual Mercury Output Emission Rate (SRFSHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

45. **eGRID Subregion Coal Annual NO_x Input Emission Rate (SRCNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. **eGRID Subregion Oil Annual NO_x Input Emission Rate (SRONOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

47. **eGRID Subregion Gas Annual NO_x Input Emission Rate (SRGNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. **eGRID Subregion Fossil Fuel Annual NO_x Input Emission Rate (SRFSNXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

49. **eGRID Subregion Coal Ozone Season NO_x Input Emission Rate (SRCNXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. **eGRID Subregion Oil Ozone Season NO_x Input Emission Rate (SRONXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

51. **eGRID Subregion Gas Ozone Season NO_x Input Emission Rate (SRGNXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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52. eGRID Subregion Fossil Fuel Ozone Season NO_x Input Emission Rate (SRFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

53. eGRID Subregion Coal Annual SO_2 Input Emission Rate (SRCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. eGRID Subregion Oil Annual SO_2 Input Emission Rate (SROSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. eGRID Subregion Gas Annual SO_2 Input Emission Rate (SRGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. eGRID Subregion Fossil Fuel Annual SO_2 Input Emission Rate (SRFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

57. eGRID Subregion Coal Annual CO_2 Input Emission Rate (SRCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. eGRID Subregion Oil Annual CO_2 Input Emission Rate (SROCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. eGRID Subregion Gas Annual CO_2 Input Emission Rate (SRGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

60. eGRID Subregion Fossil Fuel Annual CO_2 Input Emission Rate (SRFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

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61. **eGRID Subregion Coal Annual Mercury Input Emission Rate (SRCHGR) –**
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. **eGRID Subregion Fossil Fuel Annual Mercury Input Emission Rate (SRFSHGR) –**
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

63. **eGRID Subregion Annual Coal Net Generation (SRGENACL) –**
This field, in MWh, contains the eGRID subregion net generation for coal.

64. **eGRID Subregion Annual Oil Net Generation (SRGENAOL) –**
This field, in MWh, contains the eGRID subregion net generation for oil.

65. **eGRID Subregion Annual Gas Net Generation (SRGENAGS) –**
This field, in MWh, contains the eGRID subregion net generation for natural gas.

66. **eGRID Subregion Annual Nuclear Net Generation (SRGENANC) –**
This field, in MWh, contains the eGRID subregion net generation for nuclear.

67. **eGRID Subregion Annual Hydro Net Generation (SRGENAHY) –**
This field, in MWh, contains the eGRID subregion net generation for hydro.

68. **eGRID Subregion Annual Biomass/Wood Net Generation (SRGENABM) –**
This field, in MWh, contains the eGRID subregion net generation for biomass/wood.

69. **eGRID Subregion Annual Wind Net Generation (SRGENAWI) –**
This field, in MWh, contains the eGRID subregion net generation for wind.

70. **eGRID Subregion Annual Solar Net Generation (SRGENASO) –**
This field, in MWh, contains the eGRID subregion net generation for solar.

71. **eGRID Subregion Annual Geothermal Net Generation (SRGENAGT) –**
This field, in MWh, contains the eGRID subregion net generation for geothermal.

72. **eGRID Subregion Annual Other Fossil Net Generation (SRGENAOF) –**
This field, in MWh, contains the eGRID subregion net generation for other fossil.

73. **eGRID Subregion Annual Solid Waste Net Generation (SRGENASW) –**
This field, in MWh, contains the eGRID subregion net generation for solid waste.

74. **eGRID Subregion Annual Total Nonrenewables Net Generation (SRGENATN) –**
This field, in MWh, contains the total nonrenewable net generation for the eGRID subregion.

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75. eGRID Subregion Annual Total Renewables Net Generation (SRGENATR) –
This field, in MWh, contains the total renewable net generation for the eGRID subregion.

76. eGRID Subregion Annual Total Nonhydro Renewables Net Generation (SRGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the eGRID subregion.

77. eGRID Subregion Coal Generation Percent (SRCLPR) –
This field, a percent, is calculated as follows:
SRCLPR = 100 * SRGENACL/SRNGENAN.

78. eGRID Subregion Oil Generation Percent (SROLPR) –
This field, a percent, is calculated as follows:
SROLPR = 100 * SRGENAOL/SRNGENAN.

79. eGRID Subregion Gas Generation Percent (SRGSPR) –
This field, a percent, is calculated as follows:
SRGSPR = 100 * SRGENAGS/SRNGENAN.

80. eGRID Subregion Nuclear Generation Percent (SRNCPR) –
This field, a percent, is calculated as follows:
SRNCPR = 100 * SRGENANC/SRNGENAN.

81. eGRID Subregion Hydro Generation Percent (SRHYPR) –
This field, a percent, is calculated as follows:
SRHYPR = 100 * SRGENAHY/SRNGENAN.

82. eGRID Subregion Biomass/Wood Generation Percent (SRBMPR) –
This field, a percent, is calculated as follows:
SRBMPR = 100 * SRGENABM/SRNGENAN.

83. eGRID Subregion Wind Generation Percent (SRWIPR) –
This field, a percent, is calculated as follows:
SRWIPR = 100 * SRGENAWI/SRNGENAN.

84. eGRID Subregion Solar Generation Percent (SRSOPR) –
This field, a percent, is calculated as follows:
SRSOPR = 100 * SRGENASO/SRNGENAN.

85. eGRID Subregion Geothermal Generation Percent (SRGTPR) –
This field, a percent, is calculated as follows:
SRGTPR = 100 * SRGENAGT/SRNGENAN.

86. eGRID Subregion Other Fossil Generation Percent (SROFPR) –
This field, a percent, is calculated as follows:
SROFPR = 100 * SRGENAOF/SRNGENAN.

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87. eGRID Subregion Total Nonrenewables Generation Percent (SRTNPR) –
This field, a percent, is calculated as follows:
SRTNPR = 100 * SRGENATN/SRNGENAN.

88. eGRID Subregion Total Renewables Generation Percent (SRTRPR) –
This field, a percent, is calculated as follows:
SRTRPR = 100 * SRGENATR/SRNGENAN.

89. eGRID Subregion Total Nonhydro Renewables Generation Percent (SRTHPR) –
This field, a percent, is calculated as follows:
SRTHPR = 100 * SRGENATH/SRNGENAN.

90. eGRID Subregion Inclusion of Nonutilities Flag (SRTYP) –
This field indicates whether there are any nonutilities in the eGRID subregion. A value of 1 indicates that there are, and a value of 0 indicates that there are not.

91. eGRID2000 1998 File Owner-Based eGRID Subregion Sequence Number (SEQSRO98) –
This field contains the owner-based eGRID subregion sequence number.

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There are 91 variables in the twelfth subfile, EGRDSRL, which contains 28 location (operator)-based eGRID defined subregions.

1. **eGRID2002 2000 File Location (Operator)-Based eGRID Subregion Sequence Number (SEQSRP00) –**
   The location (operator)-based eGRID subregion records in this data file are sorted by eGRID subregion name, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File Location (Operator)-Based eGRID Subregion Sequence Number (SEQSRP99) –**
   The location (operator)-based eGRID subregion records in this data file are sorted by eGRID subregion name, and are assigned a unique sequential number beginning with 1.

3. **eGRID Subregion Name (SRNAME) –**
   This field contains the name of the location (operator)-based eGRID subregion, one of 28 eGRID defined regions of the country.

4. **eGRID Subregion Acronym (SUBRGN) –**
   This field contains the acronym for one of the 28 eGRID subregions.

5. **IPM Subregion Acronym Equivalent to the eGRID Subregion Acronym (IPMEQUIV) –**
   This field contains the acronym for the IPM subregion, if it exists, that is equivalent to the eGRID subregion.

6. **NERC Region Acronym (NERC) –**
   This field includes the acronym for one of the 13 assigned NERC regions.
   Sources: EIA-861, EIA-860A

7. **eGRID Subregion Capacity (NAMEPCAP) –**
   This field, in MWh, indicates the total nameplate capacity for the eGRID subregion.

8. **eGRID Subregion Annual Heat Input (SRHTIAN) –**
   This field, in MMBtu, is the eGRID subregion level total of PLHTIAN (plant level heat input).

9. **eGRID Subregion Ozone Season Heat Input (SRHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the eGRID subregion.

10. **eGRID Subregion Annual Net Generation (SRNGENAN) –**
    This field, in MWh, is reported net generation for the eGRID subregion.

11. **eGRID Subregion Ozone Season Net Generation (SRNGENOZ) –**
    This field, in MWh, is the five month ozone season (May-September) net generation for the eGRID subregion.

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12. **eGRID Subregion Annual NO_x Emissions (SRNOXAN) –**
This field, in tons, is the eGRID subregion total of annual NO_x emissions.

13. **eGRID Subregion Ozone Season NO_x Emissions (SRNOXOZ) –**
This field, in tons, is the eGRID subregion total of ozone season NO_x emissions.

14. **eGRID Subregion Annual SO_2 Emissions (SRSO2AN) –**
This field, in tons, is the eGRID subregion total of annual SO_2 emissions.

15. **eGRID Subregion Annual CO_2 Emissions (SRCO2AN) –**
This field, in tons, is the eGRID subregion total of annual CO_2 emissions.

16. **eGRID Subregion Annual Mercury Emissions (SRHGAN) –**
This field, in lbs, is the eGRID subregion total of SRHGAN Hg emissions.

17. **eGRID Subregion Annual NO_x Output Emission Rate (SRNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
SRNOXRTA = 2000 * SRNOXAN/SRNGENAN.

18. **eGRID Subregion Ozone Season NO_x Output Emission Rate (SRNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
SRNOXRTO = 2000 * SRNOXOZ/SRNGENOZ.

19. **eGRID Subregion Annual SO_2 Output Emission Rate (SRSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
SRSO2RTA = 2000 * SRSO2AN/SRNGENAN.

20. **eGRID Subregion Annual CO_2 Output Emission Rate (SRCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
SRCO2RTA = 2000 * SRCO2AN/SRNGENAN.

21. **eGRID Subregion Annual Mercury Output Emission Rate (SRHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
SRHGRTA = SRHGAN/(SRNGENAN * 1000).

22. **eGRID Subregion Annual NO_x Input Emission Rate (SRNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
SRNOXRA = 2000 * SRNOXAN/SRHTIAN

23. **eGRID Subregion Ozone Season NO_x Input Emission Rate (SRNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
SRNOXRO = 2000 * SRNOXOZ/SRHTIOZ

24. **eGRID Subregion Annual SO_2 Input Emission Rate (SRSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
SRSO2RA = 2000 * SRSO2AN/SRHTIAN

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25. **eGRID Subregion Annual CO_2 Input Emission Rate (SRCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
SRCO2RA = 2000 * SRCO2AN/SRHTIAN

26. **eGRID Subregion Annual Mercury Input Emission Rate (SRHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
SRHGRA = SRHGAN/(SRHTIAN/1000).

27. **eGRID Subregion Coal Annual NO_x Output Emission Rate (SRCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. **eGRID Subregion Oil Annual NO_x Output Emission Rate (SRONOXRT) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

29. **eGRID Subregion Gas Annual NO_x Output Emission Rate (SRGNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. **eGRID Subregion Fossil Fuel Annual NO_x Output Emission Rate (SRFSNXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

31. **eGRID Subregion Coal Ozone Season NO_x Output Emission Rate (SRCNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. **eGRID Subregion Oil Ozone Season NO_x Output Emission Rate (SRONXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

33. **eGRID Subregion Gas Ozone Season NO_x Output Emission Rate (SRGNXORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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34. **eGRID Subregion Fossil Fuel Ozone Season NO_x Output Emission Rate (SRFSNORT) –**
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

35. **eGRID Subregion Coal Annual SO_2 Output Emission Rate (SRCSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. **eGRID Subregion Oil Annual SO_2 Output Emission Rate (SROSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. **eGRID Subregion Gas Annual SO_2 Output Emission Rate (SRGSO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. **eGRID Subregion Fossil Fuel Annual SO_2 Output Emission Rate (SRFSS2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

39. **eGRID Subregion Coal Annual CO_2 Output Emission Rate (SRCCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. **eGRID Subregion Oil Annual CO_2 Output Emission Rate (SROCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. **eGRID Subregion Gas Annual CO_2 Output Emission Rate (SRGCO2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

42. **eGRID Subregion Fossil Fuel Annual CO_2 Output Emission Rate (SRFSC2RT) –**
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

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43. **eGRID Subregion Coal Annual Mercury Output Emission Rate (SRCHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

44. **eGRID Subregion Fossil Fuel Annual Mercury Output Emission Rate (SRFSHGRT) –**
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

45. **eGRID Subregion Coal Annual NO_x Input Emission Rate (SRCNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. **eGRID Subregion Oil Annual NO_x Input Emission Rate (SRONOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

47. **eGRID Subregion Gas Annual NO_x Input Emission Rate (SRGNOXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. **eGRID Subregion Fossil Fuel Annual NO_x Input Emission Rate (SRFSNXR) –**
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

49. **eGRID Subregion Coal Ozone Season NO_x Input Emission Rate (SRCNXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. **eGRID Subregion Oil Ozone Season NO_x Input Emission Rate (SRONXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

51. **eGRID Subregion Gas Ozone Season NO_x Input Emission Rate (SRGNXOR) –**
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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52. eGRID Subregion Fossil Fuel Ozone Season NO_x Input Emission Rate (SRFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

53. eGRID Subregion Coal Annual SO_2 Input Emission Rate (SRCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. eGRID Subregion Oil Annual SO_2 Input Emission Rate (SROSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. eGRID Subregion Gas Annual SO_2 Input Emission Rate (SRGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. eGRID Subregion Fossil Fuel Annual SO_2 Input Emission Rate (SRFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

57. eGRID Subregion Coal Annual CO_2 Input Emission Rate (SRCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. eGRID Subregion Oil Annual CO_2 Input Emission Rate (SROCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. eGRID Subregion Gas Annual CO_2 Input Emission Rate (SRGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

60. eGRID Subregion Fossil Fuel Annual CO_2 Input Emission Rate (SRFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

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61. **eGRID Subregion Coal Annual Mercury Input Emission Rate (SRCHGR) –**
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

62. **eGRID Subregion Fossil Fuel Annual Mercury Input Emission Rate (SRFSHGR) –**
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

63. **eGRID Subregion Annual Coal Net Generation (SRGENACL) –**
This field, in MWh, contains the eGRID subregion net generation for coal.

64. **eGRID Subregion Annual Oil Net Generation (SRGENAOL) –**
This field, in MWh, contains the eGRID subregion net generation for oil.

65. **eGRID Subregion Annual Gas Net Generation (SRGENAGS) –**
This field, in MWh, contains the eGRID subregion net generation for natural gas.

66. **eGRID Subregion Annual Nuclear Net Generation (SRGENANC) –**
This field, in MWh, contains the eGRID subregion net generation for nuclear.

67. **eGRID Subregion Annual Hydro Net Generation (SRGENAHY) –**
This field, in MWh, contains the eGRID subregion net generation for hydro.

68. **eGRID Subregion Annual Biomass/Wood Net Generation (SRGENABM) –**
This field, in MWh, contains the eGRID subregion net generation for biomass/wood.

69. **eGRID Subregion Annual Wind Net Generation (SRGENAWI) –**
This field, in MWh, contains the eGRID subregion net generation for wind.

70. **eGRID Subregion Annual Solar Net Generation (SRGENASO) –**
This field, in MWh, contains the eGRID subregion net generation for solar.

71. **eGRID Subregion Annual Geothermal Net Generation (SRGENAGT) –**
This field, in MWh, contains the eGRID subregion net generation for geothermal.

72. **eGRID Subregion Annual Other Fossil Net Generation (SRGENAOF) –**
This field, in MWh, contains the eGRID subregion net generation for other fossil.

73. **eGRID Subregion Annual Solid Waste Net Generation (SRGENASW) –**
This field, in MWh, contains the eGRID subregion net generation for solid waste.

74. **eGRID Subregion Annual Total Nonrenewables Net Generation (SRGENATN) –**
This field, in MWh, contains the total nonrenewable net generation for the eGRID subregion.

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75. eGRID Subregion Annual Total Renewables Net Generation (SRGENATR) –
This field, in MWh, contains the total renewable net generation for the eGRID subregion.

76. eGRID Subregion Annual Total Nonhydro Renewables Net Generation (SRGENATH) –
This field, in MWh, contains the total nonhydro renewable net generation for the eGRID subregion.

77. eGRID Subregion Coal Generation Percent (SRCLPR) –
This field, a percent, is calculated as follows:
SRCLPR = 100 * SRGENACL/SRNGENAN.

78. eGRID Subregion Oil Generation Percent (SROLPR) –
This field, a percent, is calculated as follows:
SROLPR = 100 * SRGENAOL/SRNGENAN.

79. eGRID Subregion Gas Generation Percent (SRGSPR) –
This field, a percent, is calculated as follows:
SRGSPR = 100 * SRGENAGS/SRNGENAN.

80. eGRID Subregion Nuclear Generation Percent (SRNCPR) –
This field, a percent, is calculated as follows:
SRNCPR = 100 * SRGENANC/SRNGENAN.

81. eGRID Subregion Hydro Generation Percent (SRHYPR) –
This field, a percent, is calculated as follows:
SRHYPR = 100 * SRGENAHY/SRNGENAN.

82. eGRID Subregion Biomass/Wood Generation Percent (SRBMPR) –
This field, a percent, is calculated as follows:
SRBMPR = 100 * SRGENABM/SRNGENAN.

83. eGRID Subregion Wind Generation Percent (SRWIPR) –
This field, a percent, is calculated as follows:
SRWIPR = 100 * SRGENAWI/SRNGENAN.

84. eGRID Subregion Solar Generation Percent (SRSOPR) –
This field, a percent, is calculated as follows:
SRSOPR = 100 * SRGENASO/SRNGENAN.

85. eGRID Subregion Geothermal Generation Percent (SRGTPR) –
This field, a percent, is calculated as follows:
SRGTPR = 100 * SRGENAGT/SRNGENAN.

86. eGRID Subregion Other Fossil Generation Percent (SROFPR) –
This field, a percent, is calculated as follows:
SROFPR = 100 * SRGENAOF/SRNGENAN.

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87. eGRID Subregion Total Nonrenewables Generation Percent (SRTNPR) –
This field, a percent, is calculated as follows:
SRTNPR = 100 * SRGENATN/SRNGENAN.

88. eGRID Subregion Total Renewables Generation Percent (SRTRPR) –
This field, a percent, is calculated as follows:
SRTRPR = 100 * SRGENATR/SRNGENAN.

89. eGRID Subregion Total Nonhydro Renewables Generation Percent (SRTHPR) –
This field, a percent, is calculated as follows:
SRTHPR = 100 * SRGENATH/SRNGENAN.

90. eGRID Subregion Inclusion of Nonutilities Flag (SRTYP) –
This field indicates whether there are any nonutilities in the eGRID subregion. A value of 1 indicates that there are, and a value of 0 indicates that there are not.

91. eGRID2000 1998 File Location (Operator)-Based eGRID Subregion Sequence Number (SEQSRP98) –
This field contains the location (operator)-based eGRID subregion sequence number. If it is -99 or N/A, then the subregion was not included with 1998 data.

THE EGRDNRCO FILE

There are 96 variables in the thirteenth subfile, EGRDNRCO, which contains owner-based NERC region data. All generation and emission values are derived by aggregating from the owner-based PCA level based on the NERC region in which the PCA is located.

1. **eGRID2002 2000 File NERC Region Sequence Number (SEQNR00) –**
   The NERC records in this data file are sorted by NERC region acronym, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File NERC Region Sequence Number (SEQNR99) –**
   The NERC records in this data file are sorted by NERC region acronym, and are assigned a unique sequential number beginning with 1.

3. **NERC Region Acronym (NERC) –**
   This field includes the acronym for one of the 13 assigned owner-based NERC regions.
   Source: EIA-861, EIA-860A

4. **NERC Number Associated with NERC Region (NERCNUM) –**
   This field includes the NERC number associated with the NERC region. eGRID assigns a negative integer to the eGRID designated NERC region.
   Source: EIA-759

5. **NERC Capacity (NAMEPCAP) –**
   This field, in MW, indicates the total nameplate capacity for the NERC region.

6. **NERC Annual Heat Input (NRHTIAN) –**
   This field, in MMBtu, is the NERC region level total of PCHTIAN.

7. **NERC Ozone Season Heat Input (NRHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the NERC region.

8. **NERC Annual Net Generation (NRNGENAN) –**
   This field, in MWh, is reported net generation for the NERC region.

9. **NERC Ozone Season Net Generation (NRNGENOZ) –**
   This field, in MWh, is the five month ozone season (May-September) net generation for the NERC region.

10. **NERC Annual NO_x Emissions (NRNOXAN) –**
    This field, in tons, is the NERC region level total of PCNOXAN (PCA level annual NO_x emissions).

11. **NERC Ozone Season NO_x Emissions (NRNOXOZ) –**
    This field, in tons, is the NERC region level total of PCNOXOZ (PCA level ozone season NO_x emissions).

THE EGRDNRCO FILE

12. **NERC Annual SO_2 Emissions (NRSO2AN) –**
This field, in tons, is the NERC region level total of PCSO2AN (PCA level annual SO_2 emissions).

13. **NERC Annual CO_2 Emissions (NRCO2AN) –**
This field, in tons, is the NERC region level total of PCCO2AN (PCA level annual CO_2 emissions).

14. **NERC Annual Mercury Emissions (NRHGAN) –**
This field, in lbs, is the NERC region level total of PCHGAN (PCA level annual Hg emissions).

15. **NERC Annual NO_x Output Emission Rate (NRNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
NRNOXRTA = 2000 * NRNOXAN/NRNGENAN.

16. **NERC Ozone Season NO_x Output Emission Rate (NRNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
NRNOXRTO = 2000 * NRNOXOZ/NRNGENOZ.

17. **NERC Annual SO_2 Output Emission Rate (NRSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
NRSO2RTA = 2000 * NRSO2AN/NRNGENAN.

18. **NERC Annual CO_2 Output Emission Rate (NRCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
NRCO2RTA = 2000 * NRCO2AN/NRNGENAN.

19. **NERC Annual Mercury Output Emission Rate (NRHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
NRHGRTA = NRHGAN/(NRNGENAN * 1000).

20. **NERC Annual NO_x Input Emission Rate (NRNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
NRNOXRA = 2000 * NRNOXAN/NRHTIAN

21. **NERC Ozone Season NO_x Input Emission Rate (NRNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
NRNOXRO = 2000 * NRNOXOZ/NRHTIOZ

22. **NERC Annual SO_2 Input Emission Rate (NRSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
NRSO2RA = 2000 * NRSO2AN/NRHTIAN

23. **NERC Annual CO_2 Input Emission Rate (NRCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
NRCO2RA = 2000 * NRCO2AN/NRHTIAN

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24. NERC Annual Mercury Input Emission Rate (NRHGRA) –
This field, in lbs/BBtu, is calculated as follows:
NRHGRA = NRHGAN/(NRHTIAN/1000).

25. NERC Coal NO_x Annual Output Emission Rate (NRCNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

26. NERC Oil NO_x Annual Output Emission Rate (NRONOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

27. NERC Gas NO_x Annual Output Emission Rate (NRGNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. NERC Fossil Fuel Annual NO_x Output Emission Rate (NRFSNXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

29. NERC Coal Ozone Season NO_x Output Emission Rate (NRCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. NERC Oil Ozone Season NO_x Output Emission Rate (NRONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

31. NERC Gas Ozone Season NO_x Output Emission Rate (NRGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. NERC Fossil Fuel Ozone Season NO_x Output Emission Rate (NRFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

33. NERC Coal Annual SO_2 Output Emission Rate (NRCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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34. NERC Oil Annual SO_2 Output Emission Rate (NROSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

35. NERC Gas Annual SO_2 Output Emission Rate (NRGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. NERC Fossil Fuel Annual SO_2 Output Emission Rate (NRFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

37. NERC Coal Annual CO_2 Output Emission Rate (NRCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. NERC Oil Annual CO_2 Output Emission Rate (NROCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. NERC Gas Annual CO_2 Output Emission Rate (NRGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. NERC Fossil Fuel Annual CO_2 Output Emission Rate (NRFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

41. NERC Coal Annual Mercury Output Emission Rate (NRCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

42. NERC Fossil Fuel Annual Mercury Output Emission Rate (NRFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

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43. NERC Coal Annual NO_x Input Emission Rate (NRCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

44. NERC Oil Annual NO_x Input Emission Rate (NRONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

45. NERC Gas Annual NO_x Input Emission Rate (NRGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. NERC Fossil Fuel Annual NO_x Input Emission Rate (NRFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

47. NERC Coal Ozone Season NO_x Input Emission Rate (NRCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. NERC Oil Ozone Season NO_x Input Emission Rate (NRONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

49. NERC Gas Ozone Season NO_x Input Emission Rate (NRGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. NERC Fossil Fuel Ozone Season NO_x Input Emission Rate (NRFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

51. NERC Coal Annual SO_2 Input Emission Rate (NRCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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52. NERC Oil Annual SO_2 Input Emission Rate (NROSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

53. NERC Gas Annual SO_2 Input Emission Rate (NRGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. NERC Fossil Fuel Annual SO_2 Input Emission Rate (NRFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

55. NERC Coal Annual CO_2 Input Emission Rate (NRCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. NERC Oil Annual CO_2 Input Emission Rate (NROCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. NERC Gas Annual CO_2 Input Emission Rate (NRGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. NERC Fossil Fuel Annual CO_2 Input Emission Rate (NRFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

59. NERC Coal Annual Mercury Input Emission Rate (NRCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

60. NERC Fossil Fuel Annual Mercury Input Emission Rate (NRFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

61. NERC Annual Coal Net Generation (NRGENACL) –
This field, in MWh, contains the NERC region net generation for coal.

THE EGRDNRCO FILE

62. NERC Annual Oil Net Generation (NRGENAOL) –
This field, in MWh, contains the NERC region net generation for oil.

63. NERC Annual Gas Net Generation (NRGENAGS) –
This field, in MWh, contains the NERC region net generation for natural gas.

64. NERC Annual Nuclear Net Generation (NRGENANC) –
This field, in MWh, contains the NERC region net generation for nuclear.

65. NERC Annual Hydro Net Generation (NRGENAHY) –
This field, in MWh, contains the NERC region net generation for hydro. For 1996 and 1997 data years, this field is the sum of the NERC utility hydro and NERC nonutility aggregated annual unspecified hydro net generation (#114 in EGRDNRCL file).

66. NERC Annual Biomass/Wood Net Generation (NRGENABM) –
This field, in MWh, contains the NERC region net generation for biomass/wood.

67. NERC Annual Wind Net Generation (NRGENAWI) –
This field, in MWh, contains the NERC region net generation for wind.

68. NERC Annual Solar Net Generation (NRGENASO) –
This field, in MWh, contains the NERC region net generation for solar.

69. NERC Annual Geothermal Net Generation (NRGENAGT) –
This field, in MWh, contains the NERC region net generation for geothermal.

70. NERC Annual Other Fossil Net Generation (NRGENAOF) –
This field, in MWh, contains the NERC region net generation for other fossil.

71. NERC Annual Solid Waste Net Generation (NRGENASW) –
This field, in MWh, contains the NERC region net generation for solid waste.

72. NERC Annual Unspecified Fossil Net Generation (NRGENAFS) –
For 1996 and 1997 data years, this field, in MWh, contains the NERC region net generation for nonutility fossil fuel units. Coal, oil, and natural gas generation are included. In the ERCOT and FRCC NERC regions, this category includes some hydro power, which could not be segregated from fossil energy; for the ASCC and HICC NERC regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy.

73. NERC Annual Unspecified Renewable Net Generation (NRGENARW) –
For 1996 and 1997 data years, this field, in MWh, contains the NERC region net generation for nonutility renewable units. Wind, biomass, solar, geothermal, and solid waste generation are included. For the ASCC and HICC NERC regions, NRGENARW is included in NRGENAFS, so NRGENARW = -99 or N/A.

74. NERC Annual Total Nonrenewables Net Generation (NRGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the NERC region.

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75. NERC Annual Total Renewables Net Generation (NRGENATR) –
This field, in MWh, contains the total renewable net generation for the NERC region.

76. NERC Annual Total Nonhydro Renewables Net Generation (NRGENATH) –
This field, in MWh, contains the total nonhydro net generation for the NERC region.

77. NERC Coal Generation Percent (NRCLPR) –
This field, a percent, is calculated as follows:
NRCLPR = 100 * NRGENACL/NRNGENAN.

78. NERC Oil Generation Percent (NROLPR) –
This field, a percent, is calculated as follows:
NROLPR = 100 * NRGENAOL/NRNGENAN.

79. NERC Gas Generation Percent (NRGSPR) –
This field, a percent, is calculated as follows:
NRGSPR = 100 * NRGENAGS/NRNGENAN.

80. NERC Nuclear Generation Percent (NRNCPR) –
This field, a percent, is calculated as follows:
NRNCPR = 100 * NRGENANC/NRNGENAN.

81. NERC Hydro Generation Percent (NRHYPR) –
This field, a percent, is calculated as follows:
NRHYPR = 100 * NRGENAHY/NRNGENAN.

82. NERC Biomass/Wood Generation Percent (NRBMPR) –
This field, a percent, is calculated as follows:
NRBMPR = 100 * NRGENABM/NRNGENAN.

83. NERC Wind Generation Percent (NRWIPR) –
This field, a percent, is calculated as follows:
NRWIPR = 100 * NRGENAWI/NRNGENAN.

84. NERC Solar Generation Percent (NRSOPR) –
This field, a percent, is calculated as follows:
NRSOPR = 100 * NRGENASO/NRNGENAN.

85. NERC Geothermal Generation Percent (NRGTPR) –
This field, a percent, is calculated as follows:
NRGTPR = 100 * NRGENAGT/NRNGENAN.

86. NERC Other Fossil Generation Percent (NROFPR) –
This field, a percent, is calculated as follows:
NROFPR = 100 * NRGENAOF/NRNGENAN.

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87. NERC Solid Waste Generation Percent (NRSWPR) –
This field, a percent, is calculated as follows:
NRSWPR = 100 (NRGENASW/NRGENAN.

88. NERC Unspecified Fossil Generation Percent (NRFSPR) –
This field, a percent, is calculated as follows:
NRFSPR = 100 (NRGENAFS/NRNGENAN

89. NERC Unspecified Renewable Generation Percent (NRRWPR) –
This field, a percent, is calculated as follows:
NRRWPR = 100 (NRGENARW/NRNGENAN

90. NERC Total Nonrenewables Generation Percent (NRTNPR) –
This field, a percent, is calculated as follows:
NRTNPR = 100 * NRGENATN/NRNGENAN.

91. NERC Total Renewables Generation Percent (NRTRPR) –
This field, a percent, is calculated as follows:
NRTRPR = 100 * NRGENATR/NRNGENAN.

92. NERC Total Nonhydro Renewables Generation Percent (NRTHPR) –
This field, a percent, is calculated as follows:
NRTHPR = 100 * NRGENATH/NRNGENAN.

93. NERC Inclusion of Nonutilities Flag (NRTYP) –
This field indicates whether there are any nonutilities in the NERC. A value of 1 indicates that there are, and a value of 0 indicates that there are not.

94. eGRID96 1996 File NERC Region Sequence Number (SEQNERC) –
This field contains the owner-based NERC region sequence number from eGRID96. If it is -99 or N/A, then the NERC was not included in eGRID96.

95. eGRID97 1997 File NERC Region Sequence Number (SEQNR97) –
This field contains the owner-based NERC region sequence number from eGRID97. If it is -99 or N/A, then the NERC was not included in eGRID97 with 1997 data.

96. eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –
This field contains the owner-based NERC region sequence number from eGRID2000. If it is -99 or N/A, then the NERC was not included in eGRID2000 with 1998 data.

THE EGRDNRCL FILE

There are 119 variables in the fourteenth subfile, EGRDNRCL, which contains location (operator)-based NERC region data. All generation and emission values are derived by aggregating from the location (operator)-based PCA level based on the NERC in which the PCA is located.

1. **eGRID2002 2000 File NERC Region Sequence Number (SEQNR00) –**
   The NERC records in this data file are sorted by NERC region acronym, and are assigned a unique sequential number beginning with 1.

2. **eGRID2002 1999 File NERC Region Sequence Number (SEQNR99) –**
   The NERC records in this data file are sorted by NERC region acronym, and are assigned a unique sequential number beginning with 1.

3. **NERC Region Acronym (NERC) –**
   This field includes the acronym for one of the 13 assigned location (operator)-based NERC regions.
   Source: EIA-861, EIA-860A

4. **NERC Number Associated with NERC Region (NERCNUM) –**
   This field includes the NERC number associated with the NERC region. eGRID assigns a negative integer to the eGRID designated NERC region.
   Source: EIA-759

5. **NERC Capacity (NAMEPCAP) –**
   This field, in MW, indicates the total nameplate capacity for the NERC region.

6. **NERC Annual Heat Input (NRHTIAN) –**
   This field, in MMBtu, is the NERC region level total of PCHTIAN.

7. **NERC Ozone Season Heat Input (NRHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the NERC region.

8. **NERC Annual Net Generation (NRNGENAN) –**
   This field, in MWh, is reported net generation for the NERC region.

9. **NERC Ozone Season Net Generation (NRNGENOZ) –**
   This field, in MWh, is the five month ozone season (May-September) net generation for the NERC region.

10. **NERC Annual NO_x Emissions (NRNOXAN) –**
    This field, in tons, is the NERC region level total of PCNOXAN (PCA level annual NO_x emissions).

11. **NERC Ozone Season NO_x Emissions (NRNOXOZ) –**
    This field, in tons, is the NERC region level total of PCNOXOZ (PCA level ozone season NO_x emissions).

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12. **NERC Annual SO_2 Emissions (NRSO2AN) –**
This field, in tons, is the NERC region level total of PCSO2AN (PCA level annual SO_2 emissions).

13. **NERC Annual CO_2 Emissions (NRCO2AN) –**
This field, in tons, is the NERC region level total of PCCO2AN (PCA level annual CO_2 emissions).

14. **NERC Annual Mercury Emissions (NRHGAN) –**
This field, in lbs, is the NERC region level total of PCHGAN (PCA level annual Hg emissions).

15. **NERC Annual NO_x Output Emission Rate (NRNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
NRNOXRTA = 2000 * NRNOXAN/NRNGENAN.

16. **NERC Ozone Season NO_x Output Emission Rate (NRNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
NRNOXRTO = 2000 * NRNOXOZ/NRNGENOZ.

17. **NERC Annual SO_2 Output Emission Rate (NRSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
NRSO2RTA = 2000 * NRSO2AN/NRNGENAN.

18. **NERC Annual CO_2 Output Emission Rate (NRCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
NRCO2RTA = 2000 * NRCO2AN/NRNGENAN.

19. **NERC Annual Mercury Output Emission Rate (NRHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
NRHGRTA = NRHGAN/(NRNGENAN * 1000).

20. **NERC Annual NO_x Input Emission Rate (NRNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
NRNOXRA = 2000 * NRNOXAN/NRHTIAN.

21. **NERC Ozone Season NO_x Input Emission Rate (NRNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
NRNOXRO = 2000 * NRNOXOZ/NRHTIOZ

22. **NERC Annual SO_2 Input Emission Rate (NRSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
NRSO2RA = 2000 * NRSO2AN/NRHTIAN

23. **NERC Annual CO_2 Input Emission Rate (NRCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
NRCO2RA = 2000 * NRCO2AN/NRHTIAN

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24. NERC Annual Mercury Input Emission Rate (NRHGRA) –
This field, in lbs/BBtu, is calculated as follows:
NRHGRA = NRHGAN/(NRHTIAN/1000).

25. NERC Coal Annual NO_x Output Emission Rate (NRCNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

26. NERC Oil Annual NO_x Output Emission Rate (NRONOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

27. NERC Gas Annual NO_x Output Emission Rate (NRGNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

28. NERC Fossil Fuel Annual NO_x Output Emission Rate (NRFSNXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

29. NERC Coal Ozone Season NO_x Output Emission Rate (NRCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. NERC Oil Ozone Season NO_x Output Emission Rate (NRONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

31. NERC Gas Ozone Season NO_x Output Emission Rate (NRGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

32. NERC Fossil Fuel Ozone Season NO_x Output Emission Rate (NRFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

33. NERC Coal Annual SO_2 Output Emission Rate (NRCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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34. NERC Oil Annual SO_2 Output Emission Rate (NROSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

35. NERC Gas Annual SO_2 Output Emission Rate (NRGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

36. NERC Fossil Fuel Annual SO_2 Output Emission Rate (NRFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

37. NERC Coal Annual CO_2 Output Emission Rate (NRCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. NERC Oil Annual CO_2 Output Emission Rate (NROCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. NERC Gas Annual CO_2 Output Emission Rate (NRGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

40. NERC Fossil Fuel Annual CO_2 Output Emission Rate (NRFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

41. NERC Coal Annual Mercury Output Emission Rate (NRCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

42. NERC Fossil Fuel Annual Mercury Output Emission Rate (NRFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

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43. NERC Coal Annual NO_x Input Emission Rate (NRCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

44. NERC Oil Annual NO_x Input Emission Rate (NRONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

45. NERC Gas Annual NO_x Input Emission Rate (NRGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

46. NERC Fossil Fuel Annual NO_x Input Emission Rate (NRFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

47. NERC Coal Ozone Season NO_x Input Emission Rate (NRCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. NERC Oil Ozone Season NO_x Input Emission Rate (NRONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

49. NERC Gas Ozone Season NO_x Input Emission Rate (NRGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

50. NERC Fossil Fuel Ozone Season NO_x Input Emission Rate (NRFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

51. NERC Coal Annual SO_2 Input Emission Rate (NRCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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52. NERC Oil Annual SO_2 Input Emission Rate (NROSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

53. NERC Gas Annual SO_2 Input Emission Rate (NRGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

54. NERC Fossil Fuel Annual SO_2 Input Emission Rate (NRFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

55. NERC Coal Annual CO_2 Input Emission Rate (NRCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. NERC Oil Annual CO_2 Input Emission Rate (NROCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. NERC Gas Annual CO_2 Input Emission Rate (NRGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

58. NERC Fossil Fuel Annual CO_2 Input Emission Rate (NRFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

59. NERC Coal Annual Mercury Input Emission Rate (NRCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

60. NERC Fossil Fuel Annual Mercury Input Emission Rate (NRFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

61. NERC Annual Coal Net Generation (NRGENACL) –
This field, in MWh, contains the NERC region net generation for coal.

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62. NERC Annual Oil Net Generation (NRGENAOL) –
This field, in MWh, contains the NERC region net generation for oil.

63. NERC Annual Gas Net Generation (NRGENAGS) –
This field, in MWh, contains the NERC region net generation for natural gas.

64. NERC Annual Nuclear Net Generation (NRGENANC) –
This field, in MWh, contains the NERC region net generation for nuclear.

65. NERC Annual Hydro Net Generation (NRGENAHY) –
This field, in MWh, contains the NERC region net generation for hydro. For 1996 and 1997 data years, this field is the sum of the NERC utility hydro and NERC nonutility aggregated annual unspecified hydro net generation (see #114).

66. NERC Annual Biomass/Wood Net Generation (NRGENABM) –
This field, in MWh, contains the NERC region net generation for biomass/wood.

67. NERC Annual Wind Net Generation (NRGENAWI) –
This field, in MWh, contains the NERC region net generation for wind.

68. NERC Annual Solar Net Generation (NRGENASO) –
This field, in MWh, contains the NERC region net generation for solar.

69. NERC Annual Geothermal Net Generation (NRGENAGT) –
This field, in MWh, contains the NERC region net generation for geothermal.

70. NERC Annual Other Fossil Net Generation (NRGENAOF) –
This field, in MWh, contains the NERC region net generation for other fossil.

71. NERC Annual Solid Waste Net Generation (NRGENASW) –
This field, in MWh, contains the NERC region net generation for solid waste.

72. NERC Annual Unspecified Fossil Net Generation (NRGENAFS) –
For 1996 and 1997 data years, this field, in MWh, contains the NERC region net generation for nonutility fossil fuel units. Coal, oil, and natural gas generation are included. In the ERCOT and FRCC NERC regions, this category includes some hydro power, which could not be segregated from fossil energy; for the ASCC and HICC NERC regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy.

73. NERC Annual Unspecified Renewable Net Generation (NRGENARW) –
For 1996 and 1997 data years, this field, in MWh, contains the NERC region net generation for nonutility renewable units. Wind, biomass, solar, geothermal, and solid waste generation are included. For the ASCC and HICC NERC regions, NRGENARW is included in NRGENAFS, so NRGENARW = -99 or N/A.

74. NERC Annual Total Nonrenewables Net Generation (NRGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the NERC region.

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75. NERC Annual Total Renewables Net Generation (NRGENATR) –
This field, in MWh, contains the total renewable net generation for the NERC region.

76. NERC Annual Total Nonhydro Renewables Net Generation (NRGENATH) –
This field, in MWh, contains the total nonhydro net generation for the NERC region.

77. NERC Coal Generation Percent (NRCLPR) –
This field, a percent, is calculated as follows:
NRCLPR = 100 * NRGENACL/NRNGENAN.

78. NERC Oil Generation Percent (NROLPR) –
This field, a percent, is calculated as follows:
NROLPR = 100 * NRGENAOL/NRNGENAN.

79. NERC Gas Generation Percent (NRGSPR) –
This field, a percent, is calculated as follows:
NRGSPR = 100 * NRGENAGS/NRNGENAN.

80. NERC Nuclear Generation Percent (NRNCPR) –
This field, a percent, is calculated as follows:
NRNCPR = 100 * NRGENANC/NRNGENAN.

81. NERC Hydro Generation Percent (NRHYPR) –
This field, a percent, is calculated as follows:
NRHYPR = 100 * NRGENAHY/NRNGENAN.

82. NERC Biomass/Wood Generation Percent (NRBMPR) –
This field, a percent, is calculated as follows:
NRBMPR = 100 * NRGENABM/NRNGENAN.

83. NERC Wind Generation Percent (NRWIPR) –
This field, a percent, is calculated as follows:
NRWIPR = 100 * NRGENAWI/NRNGENAN.

84. NERC Solar Generation Percent (NRSOPR) –
This field, a percent, is calculated as follows:
NRSOPR = 100 * NRGENASO/NRNGENAN.

85. NERC Geothermal Generation Percent (NRGTPR) –
This field, a percent, is calculated as follows:
NRGTPR = 100 * NRGENAGT/NRNGENAN.

86. NERC Other Fossil Generation Percent (NROFPR) –
This field, a percent, is calculated as follows:
NROFPR = 100 * NRGENAOF/NRNGENAN.

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87. NERC Solid Waste Generation Percent (NRSWPR) –
This field, a percent, is calculated as follows:
NRSWPR = 100 (NRGENASW/NRGENAN.

88. NERC Unspecified Fossil Generation Percent (NRFSPR) –
This field, a percent, is calculated as follows:
NRFSPR = 100 (NRGENAFS/NRNGENAN

89. NERC Unspecified Renewable Generation Percent (NRRWPR) –
This field, a percent, is calculated as follows:
NRRWPR = 100 (NRGENARW/NRNGENAN

90. NERC Total Nonrenewables Generation Percent (NRTNPR) –
This field, a percent, is calculated as follows:
NRTNPR = 100 * NRGENATN/NRNGENAN.

91. NERC Total Renewables Generation Percent (NRTRPR) –
This field, a percent, is calculated as follows:
NRTRPR = 100 * NRGENATR/NRNGENAN.

92. NERC Total Nonhydro Renewables Generation Percent (NRTHPR) –
This field, a percent, is calculated as follows:
NRTHPR = 100 * NRGENATH/NRNGENAN.

93. NERC Nonutility Aggregated Capacity (NNRMW) –
For 1996 and 1997 data years, this field contains the capacity, in MW, of the nonutility plants aggregated to the NERC region level.

94. NERC Nonutility Aggregated Annual Heat Input (NNRHTI) –
For 1996 and 1997 data years, this field contains the heat input, in MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

95. NERC Nonutility Aggregated Ozone Season Heat Input (NNRHTIO) –
For 1996 and 1997 data years, this field contains the five month ozone season (May-September) heat input of the nonutility plants aggregated or estimated to the NERC region level. It is calculated as 5/12 (the annual heat input.

96. NERC Nonutility Aggregated Annual NO_x Emissions (NNRNOX) –
For 1996 and 1997 data years, this field contains the NO_x emissions, in tons, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

97. NERC Nonutility Aggregated Ozone Season NO_x Emissions (NNRNOXO) –
For 1996 and 1997 data years, this field contains the five month ozone season (May-September) NO_x emissions of the nonutility plants aggregated or estimated to the NERC region level. It is calculated as 5/12 (the annual NO_x emissions.

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98. NERC Nonutility Aggregated Annual SO_2 Emissions (NNRSO2) –
For 1996 and 1997 data years, this field contains the SO_2 emissions, in tons, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

99. NERC Nonutility Aggregated Annual CO_2 Emissions (NNRCO2) –
For 1996 and 1997 data years, this field contains the CO_2 emissions, in tons, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

100. NERC Nonutility Aggregated Average Annual NO_x Rate (NNRNRTA) –
For 1996 and 1997 data years, this field contains the average annual NO_x rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

101. NERC Nonutility Aggregated Average Ozone Season NO_x Rate (NNRNRTO) –
For 1996 and 1997 data years, this field contains the average five month ozone season (May-September) NO_x rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

102. NERC Nonutility Aggregated Average Annual SO_2 Rate (NNRSRTA) –
For 1996 and 1997 data years, this field contains the average annual SO_2 rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

103. NERC Nonutility Aggregated Average Annual CO_2 Rate (NNRCRTA) –
For 1996 and 1997 data years, this field contains the average annual CO_2 rate, in lbs/MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

104. NERC Nonutility Aggregated Average Annual NO_x Rate (NNRNRA) –
For 1996 and 1997 data years, this field contains the average annual NO_x rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

105. NERC Nonutility Aggregated Average Ozone Season NO_x Rate (NNRNRO) –
For 1996 and 1997 data years, this field contains the average five month ozone season (May-September) NO_x rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

106. NERC Nonutility Aggregated Average Annual SO_2 Rate (NNRSRA) –
For 1996 and 1997 data years, this field contains the average annual SO_2 rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

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107. NERC Nonutility Aggregated Average Annual CO_2 Rate (NNRCRA) –
For 1996 and 1997 data years, this field contains the average annual CO_2 rate, in lbs/MMBtu, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

108. NERC Total Nonutility Aggregated Annual Net Generation (NNRNGEN) –
For 1996 and 1997 data years, this field contains the net generation, in MWh, of the nonutility plants aggregated or estimated (based on SUPPRER value) to the NERC region level.

109. NERC Nonutility Aggregated Ozone Season Net Generation (NNRNGENO) –
For 1996 and 1997 data years, this field contains the five month ozone season (May-September) net generation of the nonutility plants aggregated or estimated to the NERC region level. It is calculated as 5/12 (the annual net generation.

110. NERC Nonutility Aggregated Annual Unspecified Fossil Net Generation (NNRGENFS) –
For 1996 and 1997 data years, this field, in MWh, contains the unspecified fossil net generation of the nonutility plants aggregated or estimated (based on SUPPRRM value) to the NERC region level. In the ERCOT and FRCC NERC regions, this category includes some hydro power which could not be segregated from fossil energy; for the ASCC and HICC NERC regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy. This value is the same as that for NRGENAFS.

111. NERC Nonutility Aggregated Annual Unspecified Hydro Net Generation (NNRGENHY) –
For 1996 and 1997 data years, this field, in MWh, contains the unspecified hydro net generation of the nonutility plants aggregated or estimated (based on SUPPRRM value) to the NERC region level. For ERCOT and FRCC NERC regions, NNRGENHY is included in NNRGENFS, so NNRGENHY= -99.

112. NERC Nonutility Aggregated Annual Unspecified Renewable Net Generation (NNRGENRW) –
For 1996 and 1997 data years, this field, in MWh, contains the unspecified renewable net generation of the nonutility plants aggregated or estimated (based on SUPPRRM value) to the NERC region level. For the ASCC and HICC regions, NNRGENRW is included in NNRGENFS, so NNRGENRW= -99. This value is the same as that for NRGENARW.

113. NERC Nonutility Aggregated Unspecified Fossil Generation Percent (NNRFSPR) –
For 1996 and 1997 data years, this field contains the unspecified fossil resource mix as a percent of total generation for the nonutility plant aggregated or estimated to the NERC region level.

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114. NERC Nonutility Aggregated Unspecified Hydro Generation Percent (NNRHYPR) –
For 1996 and 1997 data years, this field contains the unspecified hydro resource mix as a percent of total generation for the nonutility plant aggregated or estimated to the NERC region level.

115. NERC Nonutility Aggregated Unspecified Renewable Generation Percent (NNRRWPR) –
For 1996 and 1997 data years, this field contains the unspecified renewable resource mix as a percent of total generation for the nonutility plant aggregated or estimated to the NERC region level.

116. NERC Inclusion of Nonutilities Flag (NRTYP) –
This field indicates whether there are any nonutilities in the NERC. A value of 1 indicates that there are, and a value of 0 indicates that there are not.

117. eGRID96 1996 File NERC Region Sequence Number (SEQNERC) –
This field contains the location (operator)-based NERC region sequence number from eGRID96. If it is -99 or N/A, then the NERC was not included in eGRID96.

118. eGRID97 1997 File NERC Region Sequence Number (SEQNR97) –
This field contains the location (operator)-based NERC region sequence number from eGRID97. If it is -99 or N/A, then the NERC was not included in eGRID97 with 1997 data.

119. eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –
This field contains the location (operator)-based NERC region sequence number from eGRID2000. If it is -99 or N/A, then the NERC was not included in eGRID2000 with 1998 data.

THE EGRDUS FILE

There are 94 variables in the fifteenth subfile, EGRDUS, which contains data for the entire United States. All generation and emission values are derived by aggregation from the NERC region level. This file is new for 1999 data; in 1997 and 1996, U.S. totals were included as a record in the NERC region file.

1. **eGRID 2002 2000 File U.S. Sequence Number (SEQUS00) –**
   The U.S. record in this data file has a value of 1.

2. **eGRID 2002 1999 File U.S. Sequence Number (SEQUS99) –**
   The U.S. record in this data file has a value of 1.

3. **United States Name (USNAME) –**
   This field includes the United States name.

4. **U.S. Capacity (NAMEPCAP) –**
   This field, in MW, indicates the total nameplate capacity for the United States.

5. **U.S. Annual Heat Input (USHTIAN) –**
   This field, in MMBtu, is the U.S. level total of PCHTIAN.

6. **U.S. Ozone Season Heat Input (USHTIOZ) –**
   This field is the five month ozone season (May-September) heat input for the United States.

7. **U.S. Annual Net Generation (USNGENAN) –**
   This field, in MWh, is reported net generation for the United States.

8. **U.S. Ozone Season Net Generation (USNGENOZ) –**
   This field, in MWh, is the five month ozone season (May-September) net generation for the United States.

9. **U.S. Annual NO_x Emissions (USNOXAN) –**
   This field, in tons, is the U.S. level total of NRNOXAN (NERC level annual NO_x emissions).

10. **U.S. Ozone Season NO_x Emissions (USNOXOZ) –**
    This field, in tons, is the U.S. level total of NRNOXOZ (NERC level ozone season NO_x emissions).

11. **U.S. Annual SO_2 Emissions (USSO2AN) –**
    This field, in tons, is the U.S. level total of NRSO2AN (NERC level annual SO_2 emissions).

12. **U.S. Annual CO_2 Emissions (USCO2AN) –**
    This field, in tons, is the U.S. level total of NRCO2AN (NERC level annual CO_2 emissions).

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13. **U.S. Annual Mercury Emissions (USHGAN) –**
This field, in lbs, is the U.S. level total of NRHGAN (NERC level annual Hg emissions).

14. **U.S. Annual NO_x Output Emission Rate (USNOXRTA) –**
This field, in lbs/MWh, is calculated as follows:
USNOXRTA = 2000 * USNOXAN/USNGENAN.

15. **U.S. Ozone Season NO_x Output Emission Rate (USNOXRTO) –**
This field, in lbs/MWh, is calculated as follows:
USNOXRTO = 2000 * USNOXOZ/USNGENOZ.

16. **U.S. Annual SO_2 Output Emission Rate (USSO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
USSO2RTA = 2000 * USSO2AN/USNGENAN.

17. **U.S. Annual CO_2 Output Emission Rate (USCO2RTA) –**
This field, in lbs/MWh, is calculated as follows:
USCO2RTA = 2000 * USCO2AN/USNGENAN.

18. **U.S. Annual Mercury Output Emission Rate (USHGRTA) –**
This field, in lbs/GWh, is calculated as follows:
USHGRTA = USHGAN/(USNGENAN * 1000).

19. **U.S. Annual NO_x Input Emission Rate (USNOXRA) –**
This field, in lbs/MMBtu, is calculated as follows:
USNOXRA = 2000 * USNOXAN/USHTIAN

20. **U.S. Ozone Season NO_x Input Emission Rate (USNOXRO) –**
This field, in lbs/MMBtu, is calculated as follows:
USNOXRO = 2000 * USNOXOZ/USHTIOZ

21. **U.S. Annual SO_2 Input Emission Rate (USSO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
USSO2RA = 2000 * USSO2AN/USHTIAN

22. **U.S. Annual CO_2 Input Emission Rate (USCO2RA) –**
This field, in lbs/MMBtu, is calculated as follows:
USCO2RA = 2000 * USCO2AN/USHTIAN

23. **U.S. Annual Mercury Input Emission Rate (USHGRA) –**
This field, in lbs/BBtu, is calculated as follows:
USHGRA = USHGAN/(USHTIAN/1000).

24. **U.S. Coal Annual NO_x Output Emission Rate (USCNOXRT) –**
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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25. U.S. Oil Annual NO_x Output Emission Rate (USONOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

26. U.S. Gas Annual NO_x Output Emission Rate (USGNOXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

27. U.S. Fossil Fuel Annual NO_x Output Emission Rate (USFSNXRT) –
This field, in lbs/MWh, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

28. U.S. Coal Ozone Season NO_x Output Emission Rate (USCNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

29. U.S. Oil Ozone Season NO_x Output Emission Rate (USONXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

30. U.S. Gas Ozone Season NO_x Output Emission Rate (USGNXORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

31. U.S. Fossil Fuel Ozone Season NO_x Output Emission Rate (USFSNORT) –
This field, in lbs/MWh, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

32. U.S. Coal Annual SO_2 Output Emission Rate (USCSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

33. U.S. Oil Annual SO_2 Output Emission Rate (USOSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

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34. U.S. Gas Annual SO_2 Output Emission Rate (USGSO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

35. U.S. Fossil Fuel Annual SO_2 Output Emission Rate (USFSS2RT) –
This field, in lbs/MWh, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

36. U.S. Coal Annual CO_2 Output Emission Rate (USCCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

37. U.S. Oil Annual CO_2 Output Emission Rate (USOCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

38. U.S. Gas Annual CO_2 Output Emission Rate (USGCO2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

39. U.S. Fossil Fuel Annual CO_2 Output Emission Rate (USFSC2RT) –
This field, in lbs/MWh, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

40. U.S. Coal Annual Mercury Output Emission Rate (USCHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any output emission rate.

41. U.S. Fossil Fuel Annual Mercury Output Emission Rate (USFSHGRT) –
This field, in lbs/GWh, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any output emission rate.

42. U.S. Coal Annual NO_x Input Emission Rate (USCNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

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43. U.S. Oil Annual NO_x Input Emission Rate (USONOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

44. U.S. Gas Annual NO_x Input Emission Rate (USGNOXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

45. U.S. Fossil Fuel Annual NO_x Input Emission Rate (USFSNXR) –
This field, in lbs/MMBtu, is based on all of a plant's annual NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

46. U.S. Coal Ozone Season NO_x Input Emission Rate (USCNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

47. U.S. Oil Ozone Season NO_x Input Emission Rate (USONXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

48. U.S. Gas Ozone Season NO_x Input Emission Rate (USGNXOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

49. U.S. Fossil Fuel Ozone Season NO_x Input Emission Rate (USFSNOR) –
This field, in lbs/MMBtu, is based on all of a plant's ozone season NO_x emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

50. U.S. Coal Annual SO_2 Input Emission Rate (USCSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

51. U.S. Oil Annual SO_2 Input Emission Rate (USOSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

52. U.S. Gas Annual SO_2 Input Emission Rate (USGSO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

53. U.S. Fossil Fuel Annual SO_2 Input Emission Rate (USFSS2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual SO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

54. U.S. Coal Annual CO_2 Input Emission Rate (USCCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

55. U.S. Oil Annual CO_2 Input Emission Rate (USOCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to oil if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

56. U.S. Gas Annual CO_2 Input Emission Rate (USGCO2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned to gas if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

57. U.S. Fossil Fuel Annual CO_2 Input Emission Rate (USFSC2R) –
This field, in lbs/MMBtu, is based on all of a plant's annual CO_2 emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

58. U.S. Coal Annual Mercury Input Emission Rate (USCHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned to coal if that is its primary fuel (PLPRIMFL). It is calculated in the same manner as is any input emission rate.

59. U.S. Fossil Fuel Annual Mercury Input Emission Rate (USFSHGR) –
This field, in lbs/BBtu, is based on all of a plant's annual Hg emissions and generation being assigned as fossil fuel if its primary fuel (PLPRIMFL) is coal, oil, or gas. It is calculated in the same manner as is any input emission rate.

60. U.S. Annual Coal Net Generation (USGENACL) –
This field, in MWh, contains the U.S. net generation for coal.

61. U.S. Annual Oil Net Generation (USGENAOL) –
This field, in MWh, contains the U.S. net generation for oil.

62. U.S. Annual Gas Net Generation (USGENAGS) –
This field, in MWh, contains the U.S. net generation for natural gas.

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63. U.S. Annual Nuclear Net Generation (USGENANC) –
This field, in MWh, contains the U.S. net generation for nuclear.

64. U.S. Annual Hydro Net Generation (USGENAHY) –
This field, in MWh, contains the U.S. net generation for hydro.

65. U.S. Annual Biomass/Wood Net Generation (USGENABM) –
This field, in MWh, contains the U.S. net generation for biomass/wood.

66. U.S. Annual Wind Net Generation (USGENAWI) –
This field, in MWh, contains the U.S. net generation for wind.

67. U.S. Annual Solar Net Generation (USGENASO) –
This field, in MWh, contains the U.S. net generation for solar.

68. U.S. Annual Geothermal Net Generation (USGENAGT) –
This field, in MWh, contains the U.S. net generation for geothermal.

69. U.S. Annual Other Fossil Net Generation (USGENAOF) –
This field, in MWh, contains the U.S. net generation for other fossil.

70. U.S. Annual Solid Waste Net Generation (USGENASW) –
This field, in MWh, contains the U.S. net generation for solid waste.

71. U.S. Annual Unspecified Fossil Net Generation (USGENAFS) –
This field, in MWh, contains the U.S. net generation for nonutility fossil fuel units. Coal, oil, and natural gas generation are included. In the ERCOT and FRCC U.S. regions, this category includes some hydro power, which could not be segregated from fossil energy; for the ASCC and HICC U.S. regions, this category includes some nonhydro renewable power which could not be segregated from fossil energy.

72. U.S. Annual Unspecified Renewable Net Generation (USGENARW) –
This field, in MWh, contains the U.S. net generation for nonutility renewable units. Wind, biomass, solar, geothermal, and solid waste generation are included. For the ASCC and HICC U.S. regions, USGENARW is included in USGENAFS, so USGENARW = -99 or N/A.

73. U.S. Annual Total Nonrenewables Net Generation (USGENATN) –
This field, in MWh, contains the total nonrenewable net generation for the United States.

74. U.S. Annual Total Renewables Net Generation (USGENATR) –
This field, in MWh, contains the total renewable net generation for the United States.

75. U.S. Annual Total Nonhydro Renewables Net Generation (USGENATH) –
This field, in MWh, contains the total nonhydro net generation for the United States.

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76. U.S. Coal Generation Percent (USCLPR) –
This field, a percent, is calculated as follows:
USCLPR = 100 * USGENACL/USNGENAN.

77. U.S. Oil Generation Percent (USOLPR) –
This field, a percent, is calculated as follows:
USOLPR = 100 * USGENAOL/USNGENAN.

78. U.S. Gas Generation Percent (USGSPR) –
This field, a percent, is calculated as follows:
USGSPR = 100 * USGENAGS/USNGENAN.

79. U.S. Nuclear Generation Percent (USNCPR) –
This field, a percent, is calculated as follows:
USNCPR = 100 * USGENANC/USNGENAN.

80. U.S. Hydro Generation Percent (USHYPR) –
This field, a percent, is calculated as follows:
USHYPR = 100 * USGENAHY/USNGENAN.

81. U.S. Biomass/Wood Generation Percent (USBMPR) –
This field, a percent, is calculated as follows:
USBMPR = 100 * USGENABM/USNGENAN.

82. U.S. Wind Generation Percent (USWIPR) –
This field, a percent, is calculated as follows:
USWIPR = 100 * USGENAWI/USNGENAN.

83. U.S. Solar Generation Percent (USSOPR) –
This field, a percent, is calculated as follows:
USSOPR = 100 * USGENASO/USNGENAN.

84. U.S. Geothermal Generation Percent (USGTPR) –
This field, a percent, is calculated as follows:
USGTPR = 100 * USGENAGT/USNGENAN.

85. U.S. Other Fossil Generation Percent (USOFPR) –
This field, a percent, is calculated as follows:
USOFPR = 100 * USGENAOF/USNGENAN.

86. U.S. Solid Waste Generation Percent (USSWPR) –
This field, a percent, is calculated as follows:
USSWPR = 100 (USGENASW/USGENAN.

87. U.S. Unspecified Fossil Generation Percent (USFSPR) –
This field, a percent, is calculated as follows:
USFSPR = 100 (USGENAFS/USNGENAN

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88. U.S. Unspecified Renewable Generation Percent (USRWPR) –
This field, a percent, is calculated as follows:
USRWPR = 100 (USGENARW/USNGENAN

89. U.S. Total Nonrenewables Generation Percent (USTNPR) –
This field, a percent, is calculated as follows:
USTNPR = 100 * USGENATN/USNGENAN.

90. U.S. Total Renewables Generation Percent (USTRPR) –
This field, a percent, is calculated as follows:
USTRPR = 100 * USGENATR/USNGENAN.

91. U.S. Total Nonhydro Renewables Generation Percent (USTHPR) –
This field, a percent, is calculated as follows:
USTHPR = 100 * USGENATH/USNGENAN.

92. eGRID96 1996 File U.S. Sequence Number (SEQUS96) –
This field contains the U.S. sequence number from eGRID2000.

93. eGRID97 1997 File U.S. Sequence Number (SEQUS97) –
This field contains the U.S. sequence number from eGRID2000.

94. eGRID2000 1998 File U.S. Sequence Number (SEQUS98) –
This field contains the U.S. sequence number from eGRID2000.

THE EGRDBMSW FILE

There are a maximum of 29 variables in the sixteenth subfile, EGRDBMSW, which contains data for plants with biomass and/or solid waste data for 1997 and/or 1998 only.

1. **eGRID2000 1998 File Plant Sequence Number (SEQPLT98) –**
   This field contains the same eGRID2000 plant sequence number that is in EGRDPLNT.

2. **State Abbreviation (PSTATABB) –**
   This field contains the postal code abbreviation of the State where the plant is located.

3. **Plant Name (PNAME) –**
   The 60-character name associated with each plant, as reported to the EIA-860A or EIA-860B (or EIA-759).

4. **DOE/EIA ORIS Plant or Facility Code (ORISPL) –**
   This plant code was originally developed for utility plants by the Office of the Regulatory Information System (ORIS), which was a part of the Federal Power Commission. It is now assigned by EIA and is used as a unique plant identification code for many EPA electric power data bases, too. If a boiler from a given plant has "moved" to another (existing or new) plant, the ORISPL plant code will have been updated in this file. If the plant code has a value less than 9999, the plant data have been originally filed with EIA on Form EIA-767 and/or EIA-860A. If the plant code has a value of at least 10000, the plant (or facility) data have been filed with EIA on Form EIA-860B. If a utility boiler has been sold to a nonutility, it should retain its ORIS code, with a few exceptions (Chena, Indian River, and Astoria). One plant code, that of Laramie River, has been altered (see the Specific ID and Name Changes section for details).

5. **Renewable Methane Plant Flag (RMETFLAG) –**
   The flag in this field indicates whether the plant burns/generates renewable methane (=1) or not (=0). Renewable methane refers to methane gas (CH_4) derived from renewable energy sources such as landfills (landfill methane) and sewage treatment facilities (digester gas). Renewable methane is classified as a renewable energy resource in eGRID. eGRID adjusts emissions to zero for power generated from renewable methane because such facilities exist for purposes other than generating electricity, and similar emissions would exist in absence of electricity generation.

6. **Plant Annual SO_2 Emissions Before Adjustment for Burning Biomass or Solid Waste (SO2ORG) –**
   This field contains the plant annual SO_2 emissions, in tons, before any adjustment for biomass or solid waste.

7. **Plant Annual SO_2 Emissions After Adjustment for Burning Biomass or Solid Waste (SO2ADJ) –**
   This field contains the plant annual SO_2 emissions, in tons, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLSO2AN in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

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8. **Plant Annual SO_2 Output Emission Rate Before Adjustment for Burning Biomass or Solid Waste (SO2RTORG) –**
This field contains the plant annual SO_2 output emission rate, in lbs/MWh, before any adjustment for biomass or solid waste.

9. **Plant Annual SO_2 Output Emission Rate After Adjustment for Burning Biomass or Solid Waste (SO2RTADJ) –**
This field contains the plant annual SO_2 output emission rate, in lbs/MWh, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLSO2RTA in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

10. **Plant Annual SO_2 Input Emission Rate Before Adjustment for Burning Biomass or Solid Waste (SO2RORG) –**
This field contains the plant annual SO_2 input emission rate, in lbs/MMBtu, before any adjustment for biomass or solid waste.

11. **Plant Annual SO_2 Input Emission Rate After Adjustment for Burning Biomass or Solid Waste (SO2RADJ) –**
This field contains the plant annual SO_2 input emission rate, in lbs/MMBtu, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLSO2RA in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

12. **Plant Annual NO_x Emissions Before Adjustment for Burning Biomass or Solid Waste (NOXORG) –**
This field contains the plant annual NO_x emissions, in tons, before any adjustment for biomass or solid waste.

13. **Plant Annual NO_x Emissions After Adjustment for Burning Biomass or Solid Waste (NOXADJ) –**
This field contains the plant annual NO_x emissions, in tons, after the biomass/solid waste portion of emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLNOXAN in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

14. **Plant Annual NO_x Output Emission Rate Before Adjustment for Burning Biomass or Solid Waste (NOXRTORG) –**
This field contains the plant annual NO_x output emission rate, in lbs/MWh, before any adjustment for biomass or solid waste.

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15. **Plant Annual NO_x Output Emission Rate After Adjustment for Burning Biomass or Solid Waste (NOXRTADJ) –**
This field contains the plant annual NO_x output emission rate, in lbs/MWh, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLNOXRTA in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

16. **Plant Annual NO_x Input Emission Rate Before Adjustment for Burning Biomass or Solid Waste (NOXRORG) –**
This field contains the plant annual NO_x input emission rate, in lbs/MMBtu, before any adjustment for biomass or solid waste.

17. **Plant Annual NO_x Input Emission Rate After Adjustment for Burning Biomass or Solid Waste (NOXRADJ) –**
This field contains the plant annual NO_x input emission rate, in lbs/MMBtu, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLNOXRA in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

18. **Plant Ozone Season NO_x Emissions Before Adjustment for Burning Biomass or Solid Waste (NXOORG) –**
This field contains the plant ozone season NO_x emissions, in tons, before any adjustment for biomass or solid waste.

19. **Plant Ozone Season NO_x Emissions After Adjustment for Burning Biomass or Solid Waste (NXOADJ) –**
This field contains the plant ozone season NO_x emissions, in tons, after the biomass/solid waste portion of emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLNOXOZ in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

20. **Plant Ozone Season NO_x Output Emission Rate Before Adjustment for Burning Biomass or Solid Waste (NXORTORG) –**
This field contains the plant ozone season NO_x output emission rate, in lbs/MWh, before any adjustment for biomass or solid waste.

21. **Plant Ozone Season NO_x Output Emission Rate After Adjustment for Burning Biomass or Solid Waste (NXORTADJ) –**
This field contains the plant ozone season NO_x output emission rate, in lbs/MWh, after the biomass/solid waste portion of emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLNOXRTO in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

22. **Plant Ozone Season NO_x Input Emission Rate Before Adjustment for Burning**

Biomass or Solid Waste (NXORORG) –
This field contains the plant ozone season NO_x input emission rate, in lbs/MMBtu, before any adjustment for biomass or solid waste.

23. **Plant Ozone Season NO_x Input Emission Rate After Adjustment for Burning Biomass or Solid Waste (NXORADJ) –**
This field contains the plant ozone season NO_x input emission rate, in lbs/MMBtu, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLNOXRO in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

24. **Plant Annual CO_2 Emissions Before Adjustment for Burning Biomass or Solid Waste (CO2ORG) –**
This field contains the plant annual CO_2 emissions, in tons, before any adjustment for biomass or solid waste.

25. **Plant Annual CO_2 Emissions After Adjustment for Burning Biomass or Solid Waste (CO2ADJ) –**
This field contains the plant annual CO_2 emissions, in tons, after the biomass/solid waste portion of emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLCO2AN in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

26. **Plant Annual CO_2 Output Emission Rate Before Adjustment for Burning Biomass or Solid Waste (CO2RTORG) –**
This field contains the plant annual CO_2 output emission rate, in lbs/MWh, before any adjustment for biomass or solid waste.

27. **Plant Annual CO_2 Output Emission Rate After Adjustment for Burning Biomass or Solid Waste (CO2RTADJ) –**
This field contains the plant annual CO_2 output emission rate, in lbs/MWh, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLCO2RTA in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

28. **Plant Annual CO_2 Input Emission Rate Before Adjustment for Burning Biomass or Solid Waste (CO2RORG) –**
This field contains the plant annual CO_2 input emission rate, in lbs/MMBtu, before any adjustment for biomass or solid waste.

THE EGRDBMSW FILE

29. Plant Annual CO_2 Input Emission Rate After Adjustment for Burning Biomass or Solid Waste (CO2RADJ) –

This field contains the plant annual CO_2 input emission rate, in lbs/MMBtu, after the biomass/solid waste portion of the emissions were adjusted. See the Methodology section (Section 3) for further details. This field has the same value as PLCO2RA in the EGRDPLNT file if the plants are not CHP plants. If the plants are CHP plants, this variable reflects the values before being adjusted by the plant's electric allocation factor.

THE EGRDPLCH FILE

There are 14 variables in the seventeenth subfile, EGRDPLCH, which contains notes about ownership or operator changes to plants. The records in this file can be linked to EGRDPLNT from 1999 and 2000. Note that there can be more than one record for a given plant (if both the operator and the owner changed or if it has been sold in pieces, for example).

1. **eGRID2002 Plant Change Sequence Number (SEQPLCH) –**
   The records in this file are sorted by ORISPL and CHTYPE, and then assigned a unique sequence number beginning with 1.

2. **eGRID2002 2000 File Plant Sequence Number (SEQPLT00) –**
   This field contains the plant sequence number and is the same as the one in EGRDPLNT; it can be used to link the data for the same plant.

3. **eGRID2002 1999 File Plant Sequence Number (SEQPLT99) –**
   This field contains the plant sequence number and is the same as the one in EGRDPLNT; it can be used to link the data for the same plant.

4. **Plant Name (PNAME) –**
   This field contains the plant name and is the same as the one in EGRDPLNT.

5. **DOE/EIA ORIS Plant or Facility Code (ORISPL) –**
   This field contains the plant code and is the same as the one in EGRDPLNT.
   Source: EIA, updates

6. **Type of Note (CHTYPE) –**
   This field specifies the type of plant note/change. Possible choices are: "OWN" (=New owner), "OPR" (=New operator), or "SPL" (Ownership split). "SPL" is used as the note type for plants. The first two, Chena and Indian River, had some of their generators sold to nonutilities. Since part of each plant remained a utility, its owner, operator, ORISPL, and name did not change; however, these two plants are very different in eGRID2002 than they were in eGRID97. The third plant, Astoria, was also broken into two plants; however, both of its new owners are nonutilities. The Astoria plant, which retained the original ORIS code, is also very different than it was in eGRID97.
   Source: EIA, updates

7. **Change Date (CHDATE) –**
   This field contains the plant's note/change date, in yymm format. When the month is unknown, xx is used.
   Source: EIA, updates

8. **Old Name (OLDNAME) –**
   For CHTYPE = "OPR" or "OWN", this field contains the name of the old operator or owner. For CHTYPE = "SPL", this field is blank.
   Source: EIA, updates

THE EGRDPLCH FILE

9. Old ID (OLDID) –
For CHTYPE = “OPR” or “OWN”, this field contains the ID of the old operator or owner. For CHTYPE = “SPL”, this field is blank.
Source: EIA, updates

10. New Name (NEWNAME) –
For CHTYPE = “OPR” or “OWN”, this field contains the name of the new operator or owner. For CHTYPE = “SPL”, this field is blank.
Source: EIA, updates

11. New ID (NEWID) –
For CHTYPE = “OPR” or “OWN”, this field contains the ID of the new operator or owner. For CHTYPE = “SPL”, this field is blank.
Source: EIA, updates

12. Previous Owner Type, if CHTYPE=OWN OR OPR (PRVOWNTY) –
This field contains the plant’s previous owner type when CHTYPE = “OWN” or “OPR”. In this file, for 1999, U (=utility) is the only non-blank code possible. This field is blank when CHTYPE=“SPL”.
Source: EIA, updates

13. Old Percent, if CHTYPE=OWN (OLDPERC) –
This field contains the percentage owned by the old owner, and is only filled in when CHTYPE = “OWN”; otherwise, it is blank.

14. New Percent, if CHTYPE=OWN (NEWPERC) –
This field contains the percentage owned by the new owner, and is only filled in when CHTYPE = “OWN”; otherwise, it is blank.

THE EGRDEGCH FILE

There are 14 variables in the eighteenth subfile, EGRDEGCH, which contains notes about companies with changes (e.g., name or ID change, it absorbed/merged with another EGC, or it has a new parent company/PCA/NERC). The records in this file can be linked to the owner- or location (operator)-based 1999 and 2000 eGRID EGC files.

1. **eGRID2002 EGC Change Sequence Number (SEQEGCH) –**
   The records in this file are sorted by EGCID and CHTYPE, and then assigned a unique sequence number beginning with 1.

2. **eGRID2002 2000 File Owner-Based EGC Sequence Number (SEQEGO00) –**
   This field contains the owner-based EGC sequence number and is the same as the one in EGRDEGCO; it can be used to link the data for the same EGC.

3. **eGRID2002 2000 File Location (Operator)-Based EGC Sequence Number (SEQEGP00) –**
   This field contains the location (operator)-based EGC sequence number and is the same as the one in EGRDEGCL; it can be used to link the data for the same EGC.

4. **eGRID2000 1998 File Owner-Based EGC Sequence Number (SEQEGO98) –**
   This field contains the owner-based EGC sequence number and is the same as the one in EGRDEGCO; it can be used to link the data for the same EGC.

5. **eGRID2000 1998 File Location (Operator)-Based EGC Sequence Number (SEQEGP98) –**
   This field contains the location (operator)-based EGC sequence number and is the same as the one in EGRDEGCL; it can be used to link the data for the same EGC.

6. **EGC Name (EGCNAME) –**
   This field contains the EGC name and is the same as the one in EGRDEGCO and/or EGRDEGCL.

7. **EGC ID (EGCID) –**
   This field contains the EGC code and is the same as the one in EGRDEGCO and/or EGRDEGCL.

THE EGRDEGCH FILE

8. Type of Note (CHTYPE) –
This field specifies the type of EGC note/change. Possible choices are:

A	=	Absorption
M	=	Merger
NC	=	New PCA
NN	=	New NERC region
NP	=	New parent company
NT	=	Note
P	=	Pending
R	=	Rename
RC	=	Reconfigured PCA
S	=	Spun off

9. Change Year (CHDATE) –
This field contains the EGC note/change year. When the year is unknown, this field is blank.

10. Note Text (CHDESC) –
This field contains a description of the EGC's note/change.

11. Old Name (OLDNAME) –
This field contains the name before the change relating to the EGC occurred. For example, if CHTYPE = "NC" this field would contain the name of the old PCA for this EGC; if CHTYPE = "R", then this field would contain the old name of the EGC itself. Note that this field is blank when an EGC has become a new subsidiary of a parent company (not moved) or when this EGC is part of a pending merger.

12. Old ID (OLDID) –
This field contains the ID before the change relating to the EGC occurred. For example, if CHTYPE = "NC" this field would contain the ID of the old PCA for this EGC; if CHTYPE = "R", then this field would contain the old ID of the EGC itself. Note that this field is blank when an EGC has become a new subsidiary of a parent company (not moved) or when this EGC is part of a pending merger.

13. New Name (NEWNAME) –
This field contains the name after the change relating to the EGC occurred. For example, if CHTYPE = "NC" this field would contain the name of the new PCA for this EGC; if CHTYPE = "R", then this field would contain the new name of the EGC itself.

14. New ID (NEWID) –
This field contains the ID after the change relating to the EGC occurred. For example, if CHTYPE = "NC" this field would contain the ID of the new PCA for this EGC; if CHTYPE = "R", then this field would contain the new ID of the EGC itself.

THE EGRDPRCH FILE

There are 14 variables in the nineteenth subfile, EGRDPRCH, which contains notes about parent companies with changes (e.g., name change, it absorbed/merged with another EGC or parent company, or it has a new PCA/NERC). The records in this file can be linked to the owner- or location (operator)-based 1999 and 2000 eGRID parent company files.

1. **eGRID2002 Parent Company Change Sequence Number (SEQPRCH) –**
   The records in this file are sorted by PRNUM and CHTYPE, and then assigned a unique sequence number beginning with 1.

2. **eGRID2002 2000 File Owner-Based Parent Company Sequence Number (SEQPRO00) –**
   This field contains the owner-based parent company sequence number and is the same as the one in EGRDPRO; it can be used to link the data for the same parent company.

3. **eGRID2002 2000 File Location (Operator)-Based Parent Company Sequence Number (SEQPRP00) –**
   This field contains the location (operator)-based parent company sequence number and is the same as the one in EGRDPRL; it can be used to link the data for the same parent company.

4. **eGRID2000 1998 File Owner-Based Parent Company Sequence Number (SEQPRO98) –**
   This field contains the owner-based parent company sequence number and is the same as the one in EGRDPRO; it can be used to link the data for the same parent company.

5. **eGRID2000 1998 File Location (Operator)-Based Parent Company Sequence Number (SEQPRP98) –**
   This field contains the location (operator)-based parent company sequence number and is the same as the one in EGRDPRL; it can be used to link the data for the same parent company.

6. **Parent Company Name (PRNAME) –**
   This field contains the parent company name and is the same as the one in EGRDPRO and/or EGRDPRL.

7. **Parent Company ID (PRNUM) –**
   This field contains the parent company code and is the same as the one in EGRDPRO and/or EGRDPRL.

THE EGRDPRCH FILE

8. Type of Note (CHTYPE) –
This field contains the type of parent company note/change. Possible choices are:

A	=	Absorption
AS	=	Added subsidiary
FP	=	Former parent
M	=	Merger
M, NP	=	Merger & new parent company
NP	=	New parent company
NT	=	Note
P	=	Pending
R	=	Rename

9. Change Year (CHDATE) –
This field contains the parent company note/change year. When the year is unknown, this field is blank.

10. Note Text (CHDESC) –
This field contains a description of the parent company's note/change.

11. Old Name (OLDNAME) –
This field contains the name before the change related to the parent company occurred. For example, if CHTYPE = "M", this field would contain the name(s) of the EGC(s) or parent company(ies) that merged into the parent company; if CHTYPE = "R", then this field would contain the old name of the parent company itself. Note that this field is blank when a new parent company was formed or when this parent company is part of a pending merger.

12. Old ID (OLDID) –
This field contains the ID before the change related to the parent company occurred. For example, if CHTYPE = "M", this field would contain the ID(s) of the EGC(s) or parent company(ies) that merged into the parent company; if CHTYPE = "R", then this field would contain the old ID of the parent company itself. Note that this field is blank when a new parent company was formed or when this parent company is part of a pending merger.

13. New Name (NEWNAME) –
This field contains the name after the change relating to the EGC occurred. For example, if CHTYPE = "NC" this field would contain the name of the new PCA for this EGC; if CHTYPE = "R", then this field would contain the new name of the EGC itself.

14. New ID (NEWID) –
This field contains the ID after the change relating to the EGC occurred. For example, if CHTYPE = "NC" this field would contain the ID of the new PCA for this EGC; if CHTYPE = "R", then this field would contain the new ID of the EGC itself.

THE EGRDPCCH FILE

There are 14 variables in the twentieth subfile, EGRDPCCH, which contains notes about PCAs with changes (e.g., name change, it absorbed/merged with another PCA, it is a new PCA, it has a new NERC, or there is a pending change). The records in this file can be linked to the owner- or location (operator)-based 1999 and 2000 eGRID PCA files.

1. **eGRID2002 PCA Change Sequence Number (SEQPCCH) –**
   The records in this file are sorted by PCAID and CHTYPE, and then assigned a unique sequence number beginning with 1.

2. **eGRID2002 2000 File Owner-Based PCA Sequence Number (SEQPCO00) –**
   This field contains the owner-based PCA sequence number and is the same as the one in EGRDPCAO; it can be used to link the data for the same PCA.

3. **eGRID2002 2000 File Location (Operator)-Based PCA Sequence Number (SEQPCP00) –**
   This field contains the location (operator)-based PCA sequence number and is the same as the one in EGRDPCAL; it can be used to link the data for the same PCA.

4. **eGRID2000 1998 File Owner-Based PCA Sequence Number (SEQPCO98) –**
   This field contains the owner-based PCA sequence number and is the same as the one in EGRDPCAO; it can be used to link the data for the same PCA.

5. **eGRID2000 1998 File Location (Operator)-Based PCA Sequence Number (SEQPCP98) –**
   This field contains the location (operator)-based PCA sequence number and is the same as the one in EGRDPCAL; it can be used to link the data for the same PCA.

6. **PCA Name (PCANAME) –**
   This field contains the PCA name and is the same as the one in EGRDPCAO and/or EGRDPCAL.

7. **PCA ID (PCAID) –**
   This field contains the PCA code and is the same as the one in EGRDPCAO and/or EGRDPCAL.

8. **Type of Note (CHTYPE) –**
   This field specifies the type of PCA note/change. Possible choices are:

A	=	Absorption
M	=	Merger
NC	=	New PCA
NN	=	New NERC region
NT	=	Note
P	=	Pending
R	=	Rename
RC	=	Reconfigured PCA

THE EGRDPCCH FILE

9. **Change Year (CHDATE) –**
This field contains the PCA note/change year. When the year is unknown, this field is blank.

10. **Note Text (CHDESC) –**
This field contains a description of the PCA's note/change.

11. **Old Name (OLDNAME) –**
This field contains the name before the change related to the PCA occurred. For example, if CHTYPE = "M", this field would contain the name(s) of the PCA(s) that merged into the PCA; if CHTYPE = "R", then this field would contain the old name of the PCA itself. Note that this field is blank when a new PCA was formed from part of a current PCA or when this PCA is part of a pending merger.

12. **Old ID (OLDID) –**
This field contains the ID before the change related to the PCA occurred. For example, if CHTYPE = "M", this field would contain the ID(s) of the PCA(s) that merged into the PCA; if CHTYPE = "R", then this field would contain the old ID of the PCA itself. Note that this field is blank when a new PCA was formed from part of a current PCA or when this PCA is part of a pending merger.

13. **New Name (NEWNAME) –**
This field contains the name after the change related to the PCA occurred. For example, if CHTYPE = "M", this field would contain the name(s) of the PCA(s) that merged into the PCA; if CHTYPE = "R", then this field would contain the new name of the PCA itself.

14. **New ID (NEWID) –**
This field contains the ID after the change related to the PCA occurred. For example, if CHTYPE = "M", this field would contain the ID(s) of the PCA(s) that merged into the PCA; if CHTYPE = "R", then this field would contain the new ID of the PCA itself.

THE EGSTIE94 FILE

There are 18 variables in the twenty-first subfile, EGSTIE94, which contains State import/export data for 1994. This file is unchanged from the one in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **eGRID2002 2000 State File Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 State File Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **1994 State Utility Net Generation (UTNGEN94) –**
   This field contains the 1994 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **1994 State Nonutility Net Generation (NUNGEN94) –**
   This field contains the 1994 nonutility net generation, in GWh, for the given State. Since only nonutility net generation is not available from EIA for this year, an average of the ratios of the 1998 and 1999 reported net generation to the 1998 and 1999 reported gross generation is used as a factor to convert 1994 nonutility gross generation to 1994 nonutility net generation.
   Sources: EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table

7. **1994 State Total Net Generation (TNGEN94) –**
   This field contains the 1994 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN94 and NUNGEN94.

8. **1994 State Utility Sales to Ultimate Consumer (UTSLCN94) –**
   This field contains the 1994 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE94 FILE

9. **1994 State Unregulated Sales to Ultimate Consumer (NUSLCN94) –**
This field contains the 1994 unregulated sales to the ultimate consumer, in GWh, for the given State, which was 0 for all States.

10. **1994 State Energy Used by Electric Department (UTCNEL94) –**
This field contains the 1994 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **1994 State Utility Energy Furnished Without Charge (UTCNFR94) –**
This field contains the 1994 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **1994 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN94) –**
This field contains the 1994 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN94, NUSLCN94, UTCNEL94, and UTCNFR94. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **1994 Grid Gross Loss Factor (GRDLSF94) –**
This field contains the 1994 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **1994 State Adjusted Total Net Generation (ADJNTG94) –**
This field contains the 1994 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG94 = ((1 - GRDLSF94) * TNGEN94).

15. **1994 State Estimated Net Imports (ESTNEI94) –**
This field contains the 1994 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI94 = TOTCN94 - ADJNTG94.

16. **1994 State Estimated Net Imports as a Percent of Total Consumption (PRESNI94) –**
This field contains the 1994 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI94 = 100 * (ESTNEI94/TOTCN94). Negative values are not meaningful.

THE EGSTIE94 FILE

17. **1994 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE94) –**
This field contains the 1994 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE94 = 100 * (-ESTNEI94/TNGEN94). Negative values are not meaningful.

18. **eGRID2000 1998 State File Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGSTIE95 FILE

There are 18 variables in the twenty-second subfile, EGSTIE95, which contains State import/export data for 1995. This file is unchanged from the one in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **eGRID2002 2000 State File Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 State File Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **1995 State Utility Net Generation (UTNGEN95) –**
   This field contains the 1995 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **1995 State Nonutility Net Generation (NUNGEN95) –**
   This field contains the 1995 nonutility net generation, in GWh, for the given State. Since only nonutility net generation is not available from EIA for this year, an average of the ratios of the 1998 and 1999 reported net generation to the 1998 and 1999 reported gross generation is used as a factor to convert 1995 nonutility gross generation to 1995 nonutility net generation.
   Sources: EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table

7. **1995 State Total Net Generation (TNGEN95) –**
   This field contains the 1995 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN95 and NUNGEN95.

8. **1995 State Utility Sales to Ultimate Consumer (UTSLCN95) –**
   This field contains the 1995 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE95 FILE

9. **1995 State Unregulated Sales to Ultimate Consumer (NUSLCN95) –**
This field contains the 1995 unregulated sales to the ultimate consumer, in GWh, for the given State, which was 0 for all States.

10. **1995 State Energy Used by Electric Department (UTCNEL95) –**
This field contains the 1995 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **1995 State Utility Energy Furnished Without Charge (UTCNFR95) –**
This field contains the 1995 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **1995 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN95) –**
This field contains the 1995 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN95, NUSLCN95, UTCNEL95, and UTCNFR95. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **1995 Grid Gross Loss Factor (GRDLSF95) –**
This field contains the 1995 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **1995 State Adjusted Total Net Generation (ADJNTG95) –**
This field contains the 1995 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG95 = ((1 - GRDLSF95) * TNGEN95).

15. **1995 State Estimated Net Imports (ESTNEI95) –**
This field contains the 1995 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI95 = TOTCN95 - ADJNTG95.

16. **1995 State Estimated Net Imports as a Percent of Total Consumption (PRESNI95) –**
This field contains the 1995 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI95 = 100 * (ESTNEI95/TOTCN95). Negative values are not meaningful.

THE EGSTIE95 FILE

17. **1995 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE95) –**
This field contains the 1995 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE95 = 100 * (-ESTNEI95/TNGEN95). Negative values are not meaningful.

18. **eGRID2000 1998 State File Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGSTIE96 FILE

There are 18 variables in the twenty-third subfile, EGSTIE96, which contains State import/export data for 1996. This file is unchanged from the one in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **eGRID2002 2000 File State Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 File State Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **1996 State Utility Net Generation (UTNGEN96) –**
   This field contains the 1996 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **1996 State Nonutility Net Generation (NUNGEN96) –**
   This field contains the 1996 nonutility net generation, in GWh, for the given State. Since only nonutility net generation is not available from EIA for this year, an average of the ratios of the 1998 and 1999 reported net generation to the 1998 and 1999 reported gross generation is used as a factor to convert 1996 nonutility gross generation to 1996 nonutility net generation.
   Sources: EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table

7. **1996 State Total Net Generation (TNGEN96) –**
   This field contains the 1996 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN96 and NUNGEN96.

8. **1996 State Utility Sales to Ultimate Consumer (UTSLCN96) –**
   This field contains the 1996 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE96 FILE

9. **1996 State Unregulated Sales to Ultimate Consumer (NUSLCN96) –**
This field contains the 1996 unregulated sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
Source: EIA's *Electric Sales and Revenue*

10. **1996 State Energy Used by Electric Department (UTCNEL96) –**
This field contains the 1996 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **1996 State Utility Energy Furnished Without Charge (UTCNFR96) –**
This field contains the 1996 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **1996 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN96) –**
This field contains the 1996 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN96, NUSLCN96, UTCNEL96, and UTCNFR96. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **1996 Grid Gross Loss Factor (GRDLSF96) –**
This field contains the 1996 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **1996 State Adjusted Total Net Generation (ADJNTG96) –**
This field contains the 1996 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG96 = ((1 - GRDLSF96) * TNGEN96).

15. **1996 State Estimated Net Imports (ESTNEI96) –**
This field contains the 1996 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI96 = TOTCN96 - ADJNTG96.

16. **1996 State Estimated Net Imports as a Percent of Total Consumption (PRESNI96) –**
This field contains the 1996 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI96 = 100 * (ESTNEI96/TOTCN96). Negative values are not meaningful.

THE EGSTIE96 FILE

17. **1996 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE96) –**
This field contains the 1996 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE96 = 100 * (-ESTNEI96/TNGEN96). Negative values are not meaningful.

18. **eGRID2000 1998 File State Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGSTIE97 FILE

There are 18 variables in the twenty-fourth subfile, EGSTIE97, which contains State import/export data for 1997. This file is unchanged from the one in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **eGRID2002 2000 File State Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 File State Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **1997 State Utility Net Generation (UTNGEN97) –**
   This field contains the 1997 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **1997 State Nonutility Net Generation (NUNGEN97) –**
   This field contains the 1997 nonutility net generation, in GWh, for the given State. Since only nonutility net generation is not available from EIA for this year, an average of the ratios of the 1998 and 1999 reported net generation to the 1998 and 1999 reported gross generation is used as a factor to convert 1997 nonutility gross generation to 1997 nonutility net generation.
   Sources: EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table

7. **1997 State Total Net Generation (TNGEN97) –**
   This field contains the 1997 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN97 and NUNGEN97.

8. **1997 State Utility Sales to Ultimate Consumer (UTSLCN97) –**
   This field contains the 1997 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE97 FILE

9. **1997 State Unregulated Sales to Ultimate Consumer (NUSLCN97) –**
This field contains the 1997 unregulated sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
Source: EIA's *Electric Sales and Revenue*

10. **1997 State Energy Used by Electric Department (UTCNEL97) –**
This field contains the 1997 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **1997 State Utility Energy Furnished Without Charge (UTCNFR97) –**
This field contains the 1997 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **1997 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN97) –**
This field contains the 1997 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN97, NUSLCN97, UTCNEL97, and UTCNFR97. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **1997 Grid Gross Loss Factor (GRDLSF97) –**
This field contains the 1997 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **1997 State Adjusted Total Net Generation (ADJNTG97) –**
This field contains the 1997 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG97 = ((1 - GRDLSF97) * TNGEN97).

15. **1997 State Estimated Net Imports (ESTNEI97) –**
This field contains the 1997 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI97 = TOTCN97 - ADJNTG97.

16. **1997 State Estimated Net Imports as a Percent of Total Consumption (PRESNI97) –**
This field contains the 1997 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI97 = 100 * (ESTNEI97/TOTCN97). Negative values are not meaningful.

THE EGSTIE97 FILE

17. **1997 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE97) –**
This field contains the 1997 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE97 = 100 * (-ESTNEI97/TNGEN97). Negative values are not meaningful.

18. **eGRID2000 1998 File State Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGSTIE98 FILE

There are 18 variables in the twenty-fifth subfile, EGSTIE98, which contains State import/export data for 1998. This file is unchanged from the one in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **eGRID2002 2000 File State Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 File State Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **1998 State Utility Net Generation (UTNGEN98) –**
   This field contains the 1998 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **1998 State Nonutility Net Generation (NUNGEN98) –**
   This field contains the 1998 nonutility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA Custom Table

7. **1998 State Total Net Generation (TNGEN98) –**
   This field contains the 1998 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN98 and NUNGEN98. Note that this value may not be exactly the same as EGRDST's State net generation, STNGENAN, for the same year because the values for these files have been taken as aggregate numbers, while the State net generation was calculated as the sum of the plant net generation, and the plant data did undergo quality assurance/quality control procedures.

8. **1998 State Utility Sales to Ultimate Consumer (UTSLCN98) –**
   This field contains the 1998 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE98 FILE

9. **1998 State Unregulated Sales to Ultimate Consumer (NUSLCN98) –**
This field contains the 1998 unregulated sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
Source: EIA's *Electric Sales and Revenue*

10. **1998 State Energy Used by Electric Department (UTCNEL98) –**
This field contains the 1998 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **1998 State Utility Energy Furnished Without Charge (UTCNFR98) –**
This field contains the 1998 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **1998 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN98) –**
This field contains the 1998 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN98, NUSLCN98, UTCNEL98, and UTCNFR98. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **1998 Grid Gross Loss Factor (GRDLSF98) –**
This field contains the 1998 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **1998 State Adjusted Total Net Generation (ADJNTG98) –**
This field contains the 1998 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG98 = ((1 - GRDLSF98) * TNGEN98).

15. **1998 State Estimated Net Imports (ESTNEI98) –**
This field contains the 1998 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI98 = TOTCN98 - ADJNTG98.

16. **1998 State Estimated Net Imports as a Percent of Total Consumption (PRESNI98) –**
This field contains the 1998 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI98 = 100 * (ESTNEI98/TOTCN98). Negative values are not meaningful.

THE EGSTIE98 FILE

17. **1998 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE98) –**
This field contains the 1998 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE98 = 100 * (-ESTNEI98/TNGEN98). Negative values are not meaningful.

18. **eGRID2000 1998 File State Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGSTIE99 FILE

There are 18 variables in the twenty-sixth subfile, EGSTIE99, which contains State import/export data for 1999. This file is unchanged from the one in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **eGRID2002 2000 File State Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 File State Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **1999 State Utility Net Generation (UTNGEN99) –**
   This field contains the 1999 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **1999 State Nonutility Net Generation (NUNGEN99) –**
   This field contains the 1999 nonutility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

7. **1999 State Total Net Generation (TNGEN99) –**
   This field contains the 1999 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN99 and NUNGEN99. Note that this value may not be exactly the same as EGRDST's State net generation, STNGENAN, for the same year because the values for these files have been taken as aggregate numbers, while the State net generation was calculated as the sum of the plant net generation, and the plant data did undergo quality assurance/quality control procedures.

8. **1999 State Utility Sales to Ultimate Consumer (UTSLCN99) –**
   This field contains the 1999 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE99 FILE

9. **1999 State Unregulated Sales to Ultimate Consumer (NUSLCN99) –**
This field contains the 1999 unregulated sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
Source: EIA's *Electric Sales and Revenue*

10. **1999 State Energy Used by Electric Department (UTCNEL99) –**
This field contains the 1999 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **1999 State Utility Energy Furnished Without Charge (UTCNFR99) –**
This field contains the 1999 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **1999 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN99) –**
This field contains the 1999 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN99, NUSLCN99, UTCNEL99, and UTCNFR99. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **1999 Grid Gross Loss Factor (GRDLSF99) –**
This field contains the 1999 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **1999 State Adjusted Total Net Generation (ADJNTG99) –**
This field contains the 1999 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG99 = ((1 - GRDLSF99) * TNGEN99).

15. **1999 State Estimated Net Imports (ESTNEI99) –**
This field contains the 1999 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI99 = TOTCN99 - ADJNTG99.

16. **1999 State Estimated Net Imports as a Percent of Total Consumption (PRESNI99) –**
This field contains the 1999 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI99 = 100 * (ESTNEI99/TOTCN99). Negative values are not meaningful.

THE EGSTIE99 FILE

17. **1999 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE99) –**
This field contains the 1999 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE99 = 100 * (-ESTNEI99/TNGEN99). Negative values are not meaningful.

18. **eGRID2000 1998 File State Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGSTIE00 FILE

There are 18 variables in the twenty-seventh subfile, EGSTIE00, which contains State import/export data for 2000.

1. **eGRID2002 2000 File State Sequence Number (SEQST00) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

2. **eGRID2002 1999 File State Sequence Number (SEQST99) –**
   This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

3. **State Abbreviation (PSTATABB) –**
   This field contains the abbreviation of the State.

4. **Grid Region (GRIDRGN) –**
   This field contains the grid region in which the State is included. There are five distinct grid regions comprising one or more whole States:

E	=	Eastern grid (36 Eastern States plus DC)
W	=	Western grid (11 Western States)
A	=	Alaska
H	=	Hawaii
T	=	Texas

5. **2000 State Utility Net Generation (UTNGEN00) –**
   This field contains the 2000 utility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

6. **2000 State Nonutility Net Generation (NUNGEN00) –**
   This field contains the 2000 nonutility net generation, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 1

7. **2000 State Total Net Generation (TNGEN00) –**
   This field contains the 2000 total net generation, in GWh, for the given State; it is the sum of the previous two variables, UTNGEN00 and NUNGEN00. Note that this value may not be exactly the same as EGRDST's State net generation, STNGENAN, for the same year because the values for these files have been taken as aggregate numbers, while the State net generation was calculated as the sum of the plant net generation, and the plant data did undergo quality assurance/quality control procedures.

8. **2000 State Utility Sales to Ultimate Consumer (UTSLCN00) –**
   This field contains the 2000 utility sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
   Source: EIA's *Electric Power Annual*, Vol. 2

THE EGSTIE00 FILE

9. **2000 State Unregulated Sales to Ultimate Consumer (NUSLCN00) –**
This field contains the 2000 unregulated sales to the ultimate consumer, in GWh, for the given State, as reported by EIA.
Source: EIA's *Electric Sales and Revenue*

10. **2000 State Energy Used by Electric Department (UTCNEL00) –**
This field contains the 2000 energy used by the electric department, in GWh, for the given State, as reported to EIA.
Source: EIA-861

11. **2000 State Utility Energy Furnished Without Charge (UTCNFR00) –**
This field contains the 2000 utility energy furnished without charge, in GWh, for the given State, as reported to EIA.
Source: EIA-861

12. **2000 State Total Consumption, Excluding Nonutility Energy Furnished Without Charge (TOTCN00) –**
This field contains the 2000 State total consumption, in GWh, for the given State. It is the sum of the previous four variables, UTSLCN00, NUSLCN00, UTCNEL00, and UTCNFR00. Information about nonutility energy furnished without charge, prior to 1998, is considered confidential by EIA; to maintain consistency with data from earlier years, it is excluded from the total consumption calculation.

13. **2000 Grid Gross Loss Factor (GRDLSF00) –**
This field contains the 2000 grid gross loss factor, as a decimal with five places to the right of the decimal for the grid region which the given State is associated. The grid loss factor represents the percent difference, expressed as a decimal, between total generation (including net foreign imports) and total consumption (excluding nonutility energy furnished without charge). The grid gross loss factor is calculated separately for each grid region.

14. **2000 State Adjusted Total Net Generation (ADJNTG00) –**
This field contains the 2000 adjusted total net generation, in GWh, for the given State. The algorithm is as follows: ADJNTG00 = ((1 - GRDLSF00) * TNGEN00).

15. **2000 State Estimated Net Imports (ESTNEI00) –**
This field contains the 2000 estimated net imports, in GWh, for the given State. Positive values denote net imports; negative values denote net exports. The algorithm is as follows: ESTNEI00 = TOTCN00 - ADJNTG00.

16. **2000 State Estimated Net Imports as a Percent of Total Consumption (PRESNI00) –**
This field contains the 2000 estimated net imports as a percent of the total consumption, for the given State. The algorithm is as follows: PRESNI00 = 100 * (ESTNEI00/TOTCN00). Negative values are not meaningful.

THE EGSTIE00 FILE

17. **2000 State Estimated Net Exports as a Percent of Total Net Generation (PRESNE00) –**
This field contains the 2000 estimate net imports as a percent of total net generation, for the given State. The algorithm is as follows: PRESNE00 = 100 * (-ESTNEI00/TNGEN00). Negative values are not meaningful.

18. **eGRID2000 1998 File State Sequence Number (SEQST98) –**
This field contains the State sequence number and is the same as the one in EGRDST; it can be used to link data for the same State.

THE EGRDUSGC FILE

There are 49 variables in the twenty-eighth subfile, EGRDUSGC, which contains generation and consumption as well as net foreign import data for the United States.

1. **1994 U.S. Utility Net Generation (USUNGN94) –**
   This field contains the U.S. utility net generation for 1994, in GWh. It is the sum of all the States' 1994 utility net generation, UTNGEN94, in the State file.

2. **1994 U.S. Nonutility Net Generation (USNNGN94) –**
   This field contains the U.S. nonutility net generation for 1994, in GWh. It is the sum of all the States' 1994 nonutility net generation, NUNGEN94, in the State file.

3. **1994 U.S. Total Net Generation (USTNGN94) –**
   This field contains the U.S. total net generation for 1994, in GWh. It is the sum of all the States' 1994 total net generation, TNGEN94, in the State file.

4. **1994 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON94) –**
   This field contains the U.S. total consumption for 1994, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 1994 total consumption (with the same exclusion), TOTCN94, in the State file.

5. **1994 Net Canadian Imports (USCNFI94) –**
   This field contains the total Canadian net foreign imports for 1994, in GWh.
   Source: DOE's *Regional Electricity Transactions Across International Borders* (DOE-FE781R)

6. **1994 Net Mexican Imports (USMNFI94) –**
   This field contains the total Mexican net foreign imports for 1994, in GWh.
   Source: DOE-FE781R

7. **1994 Net Foreign Imports (USTNFI94) –**
   This field contains the total net foreign imports for 1994, in GWh.

8. **1995 U.S. Utility Net Generation (USUNGN95) –**
   This field contains the U.S. utility net generation for 1995, in GWh. It is the sum of all the States' 1995 utility net generation, UTNGEN95, in the State file.

9. **1995 U.S. Nonutility Net Generation (USNNGN95) –**
   This field contains the U.S. nonutility net generation for 1995, in GWh. It is the sum of all the States' 1995 nonutility net generation, NUNGEN95, in the State file.

10. **1995 U.S. Total Net Generation (USTNGN95) –**
    This field contains the U.S. total net generation for 1995, in GWh. It is the sum of all the States' 1995 total net generation, TNGEN95, in the State file.

THE EGRDUSGC FILE

11. 1995 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON95) –
This field contains the U.S. total consumption for 1995, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 1995 total consumption (with the same exclusion), TOTCN95, in the State file.

12. 1995 Net Canadian Imports (USCNFI95) –
This field contains the total Canadian net foreign imports for 1995, in GWh.
Source: DOE-FE781R

13. 1995 Net Mexican Imports (USMNFI95) –
This field contains the total Mexican net foreign imports for 1995, in GWh.
Source: DOE-FE781R

14. 1995 Net Foreign Imports (USTNFI95) –
This field contains the total net foreign imports for 1995, in GWh.

15. 1996 U.S. Utility Net Generation (USUNGN96) –
This field contains the U.S. utility net generation for 1996, in GWh. It is the sum of all the States' 1996 utility net generation, UTNGEN96, in the State file.

16. 1996 U.S. Nonutility Net Generation (USNNGN96) –
This field contains the U.S. nonutility net generation for 1996, in GWh. It is the sum of all the States' 1996 nonutility net generation, NUNGEN96, in the State file.

17. 1996 U.S. Total Net Generation (USTNGN96) –
This field contains the U.S. total net generation for 1996, in GWh. It is the sum of all the States' 1996 total net generation, TNGEN96, in the State file.

18. 1996 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON96) –
This field contains the U.S. total consumption for 1996, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 1996 total consumption (with the same exclusion), TOTCN96, in the State file.

19. 1996 Net Canadian Imports (USCNFI96) –
This field contains the total Canadian net foreign imports for 1996, in GWh.
Source: DOE-FE781R

20. 1996 Net Mexican Imports (USMNFI96) –
This field contains the total Mexican net foreign imports for 1996, in GWh.
Source: DOE-FE781R

21. 1996 Net Foreign Imports (USTNFI96) –
This field contains the total net foreign imports for 1996, in GWh.

THE EGRDUSGC FILE

22. 1997 U.S. Utility Net Generation (USUNGN97) –
This field contains the U.S. utility net generation for 1997, in GWh. It is the sum of all the States' 1997 utility net generation, UTNGEN97, in the State file.

23. 1997 U.S. Nonutility Net Generation (USNNGN97) –
This field contains the U.S. nonutility net generation for 1997, in GWh. It is the sum of all the States' 1997 nonutility net generation, NUNGEN97, in the State file.

24. 1997 U.S. Total Net Generation (USTNGN97) –
This field contains the U.S. total net generation for 1997, in GWh. It is the sum of all the States' 1997 total net generation, TNGEN97, in the State file.

25. 1997 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON97) –
This field contains the U.S. total consumption for 1997, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 1997 total consumption (with the same exclusion), TOTCN97, in the State file.

26. 1997 Net Canadian Imports (USCNFI97) –
This field contains the total Canadian net foreign imports for 1997, in GWh.
Source: DOE-FE781R

27. 1997 Net Mexican Imports (USMNFI97) –
This field contains the total Mexican net foreign imports for 1997, in GWh.
Source: DOE-FE781R

28. 1997 Net Foreign Imports (USTNFI97) –
This field contains the total net foreign imports for 1997, in GWh.

29. 1998 U.S. Utility Net Generation (USUNGN98) –
This field contains the U.S. utility net generation for 1998, in GWh. It is the sum of all the States' 1998 utility net generation, UTNGEN98, in the State file.

30. 1998 U.S. Nonutility Net Generation (USNNGN98) –
This field contains the U.S. nonutility net generation for 1998, in GWh. It is the sum of all the States' 1998 nonutility net generation, NUNGEN98, in the State file.

31. 1998 U.S. Total Net Generation (USTNGN98) –
This field contains the U.S. total net generation for 1998, in GWh. It is the sum of all the States' 1998 total net generation, TNGEN98, in the State file.

32. 1998 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON98) –
This field contains the U.S. total consumption for 1998, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 1998 total consumption (with the same exclusion), TOTCN98, in the State file.

THE EGRDUSGC FILE

33. 1998 Net Canadian Imports (USCNFI98) –
This field contains the total Canadian net foreign imports for 1998, in GWh.
Source: DOE-FE781R

34. 1998 Net Mexican Imports (USMNFI98) –
This field contains the total Mexican net foreign imports for 1998, in GWh.
Source: DOE-FE781R

35. 1998 Net Foreign Imports (USTNFI98) –
This field contains the total net foreign imports for 1998, in GWh.

36. 1999 U.S. Utility Net Generation (USUNGN99) –
This field contains the U.S. utility net generation for 1999, in GWh. It is the sum of all the States' 1999 utility net generation, UTNGEN99, in the State file.

37. 1999 U.S. Nonutility Net Generation (USNNGN99) –
This field contains the U.S. nonutility net generation for 1999, in GWh. It is the sum of all the States' 1999 nonutility net generation, NUNGEN99, in the State file.

38. 1999 U.S. Total Net Generation (USTNGN99) –
This field contains the U.S. total net generation for 1999, in GWh. It is the sum of all the States' 1999 total net generation, TNGEN99, in the State file.

39. 1999 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON99) –
This field contains the U.S. total consumption for 1999, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 1999 total consumption (with the same exclusion), TOTCN99, in the State file.

40. 1999 Net Canadian Imports (USCNFI99) –
This field contains the total Canadian net foreign imports for 1999, in GWh.
Source: DOE-FE781R

41. 1999 Net Mexican Imports (USMNFI99) –
This field contains the total Mexican net foreign imports for 1999, in GWh.
Source: DOE-FE781R

42. 1999 Net Foreign Imports (USTNFI99) –
This field contains the total net foreign imports for 1999, in GWh.

43. 2000 U.S. Utility Net Generation (USUNGN00) –
This field contains the U.S. utility net generation for 2000, in GWh. It is the sum of all the States' 2000 utility net generation, UTNGEN00, in the State file.

44. 2000 U.S. Nonutility Net Generation (USNNGN00) –
This field contains the U.S. nonutility net generation for 2000, in GWh. It is the sum of all the States' 2000 nonutility net generation, NUNGEN00, in the State file.

THE EGRDUSGC FILE

45. 2000 U.S. Total Net Generation (USTNGN00) –
This field contains the U.S. total net generation for 2000, in GWh. It is the sum of all the States' 2000 total net generation, TNGEN00, in the State file.

46. 2000 U.S. Total Consumption, Excluding Nonutility Energy Furnished Without Charge (USTCON00) –
This field contains the U.S. total consumption for 2000, excluding nonutility energy furnished without charge, in GWh. It is the sum of all the States' 2000 total consumption (with the same exclusion), TOTCN00, in the State file.

47. 2000 Net Canadian Imports (USCNFI00) –
This field contains the total Canadian net foreign imports for 2000, in GWh.
Source: DOE-FE781R

48. 2000 Net Mexican Imports (USMNFI00) –
This field contains the total Mexican net foreign imports for 2000, in GWh.
Source: DOE-FE781R

49. 2000 Net Foreign Imports (USTNFI00) –
This field contains the total net foreign imports for 2000, in GWh.

THE EGPINT94 FILE

There are 15 variables in the twenty-ninth subfile, EGPINT94, which contains interchange data among PCAs for 1994. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **PCA Name of Reporting PCA (PCANAME) –**
   This field contains the PCA name of the reporting PCA, the PCA with the sequence numbers in the first and second variables.
   Source: Updated FERC-714 Schedule 5

2. **PCA ID of Reporting PCA (PCAID) –**
   This field contains the PCA ID associated with the reporting PCA name in the third variable.
   Source: Updated FERC-714 Schedule 5

3. **NERC Region Acronym Associated with the Reporting PCA (NERC) –**
   This field contains the acronym NERC region associated with the reporting PCA.
   Source: Updated EIA-861

4. **PCA Name of Adjacent PCA (PCANMADJ) –**
   This field contains the PCA name of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

5. **PCA ID of Adjacent PCA (PCAIDADJ) –**
   This field contains the PCA ID of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

6. **NERC Region Acronym Associated with the Adjacent PCA (NERCADJ) –**
   This field contains the acronym NERC region associated with the adjacent PCA.
   Source: Updated EIA-861

7. **1994 Energy Received by Reporting PCA from the Adjacent PCA (RCRECD94) –**
   This field, in MWh, contains the energy received by the reporting PCA from the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (e)

8. **1994 Energy Delivered by Reporting PCA to the Adjacent PCA (RCDLVD94) –**
   This field, in MWh, contains the energy delivered by the reporting PCA to the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (f)

9. **1994 Net Interchange of the Reporting PCA with the Adjacent PCA (RCNETI94) –**
   This field, in MWh, contains the net interchange of the reporting PCA with the adjacent PCA. Positive values denote net imports; negative values denote net exports. The algorithm is RCNETI94 = RCRECD94 - RCDLVD94.

THE EGPINT94 FILE

10. **1994 Adjacent PCA's Report of Energy Received from the Reporting PCA (ACRECD94) –**
This field, in MWh, contains the adjacent PCA's report of energy received from the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (e)

11. **1994 Adjacent PCA's Report of Energy Delivered to the Reporting PCA (ACDLVD94) –**
This field, in MWh, contains the adjacent PCA's report of energy delivered to the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (f)

12. **1994 Net Interchange of the Adjacent PCA with the Reporting PCA (ACNETI94) –**
This field, in MWh, contains the net interchange of the adjacent PCA with the reporting PCA. Positive values denote net imports; negative values denote net exports. The algorithm is ACNETI94 = ACRECD94 - ACDLVD94.

13. **1994 PCA Match Flag to Determine if RCNETI94 = -ACNETI94 (MATCHP94) –**
This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

14. **eGRID2000 1998 File Owner-Based PCA Sequence Number (SEQPCO98) –**
This field contains the owner-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAO; it can be used to link the data for the same owner PCA.

15. **eGRID2000 1998 File Location (Operator)-Based PCA Sequence Number (SEQPCP98) –**
This field contains the location (operator)-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAL; it can be used to link the data for the same location (operator)-based PCA.

THE EGPINT95 FILE

There are 15 variables in the thirtieth subfile, EGPINT95, which contains interchange data among PCAs for 1995. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **PCA Name of Reporting PCA (PCANAME) –**
   This field contains the PCA name of the reporting PCA, the PCA with the sequence numbers in the first and second variables.
   Source: Updated FERC-714 Schedule 5

2. **PCA ID of Reporting PCA (PCAID) –**
   This field contains the PCA ID associated with the reporting PCA name in the third variable.
   Source: Updated FERC-714 Schedule 5

3. **NERC Region Acronym Associated with the Reporting PCA (NERC) –**
   This field contains the acronym NERC region associated with the reporting PCA.
   Source: Updated EIA-861

4. **PCA Name of Adjacent PCA (PCANMADJ) –**
   This field contains the PCA name of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

5. **PCA ID of Adjacent PCA (PCAIDADJ) –**
   This field contains the PCA ID of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

6. **NERC Region Acronym Associated with the Adjacent PCA (NERCADJ) –**
   This field contains the acronym NERC region associated with the adjacent PCA.
   Source: Updated EIA-861

7. **1995 Energy Received by Reporting PCA from the Adjacent PCA (RCRECD95) –**
   This field, in MWh, contains the energy received by the reporting PCA from the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (e)

8. **1995 Energy Delivered by Reporting PCA to the Adjacent PCA (RCDLVD95) –**
   This field, in MWh, contains the energy delivered by the reporting PCA to the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (f)

9. **1995 Net Interchange of the Reporting PCA with the Adjacent PCA (RCNETI95) –**
   This field, in MWh, contains the net interchange of the reporting PCA with the adjacent PCA. Positive values denote net imports; negative values denote net exports. The algorithm is RCNETI95 = RCRECD95 - RCDLVD95.

THE EGPINT95 FILE

10. **1995 Adjacent PCA's Report of Energy Received from the Reporting PCA (ACRECD95) –**
This field, in MWh, contains the adjacent PCA's report of energy received from the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (e)

11. **1995 Adjacent PCA's Report of Energy Delivered to the Reporting PCA (ACDLVD95) –**
This field, in MWh, contains the adjacent PCA's report of energy delivered to the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (f)

12. **1995 Net Interchange of the Adjacent PCA with the Reporting PCA (ACNETI95) –**
This field, in MWh, contains the net interchange of the adjacent PCA with the reporting PCA. Positive values denote net imports; negative values denote net exports. The algorithm is ACNETI95 = ACRECD95 - ACDLVD95.

13. **1995 PCA Match Flag to Determine if RCNETI95 = -ACNETI95 (MATCHP95) –**
This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

14. **eGRID2000 1998 File Owner-Based PCA Sequence Number (SEQPCO98) –**
This field contains the owner-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAO; it can be used to link the data for the same owner PCA.

15. **eGRID2000 1998 File Location (Operator)-Based PCA Sequence Number (SEQPCP98) –**
This field contains the location (operator)-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAL; it can be used to link the data for the same location (operator)-based PCA.

THE EGPINT96 FILE

There are 15 variables in the thirty-first subfile, EGPINT96, which contains interchange data among PCAs for 1996. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **PCA Name of Reporting PCA (PCANAME) –**
   This field contains the PCA name of the reporting PCA, the PCA with the sequence numbers in the first and second variables.
   Source: Updated FERC-714 Schedule 5

2. **PCA ID of Reporting PCA (PCAID) –**
   This field contains the PCA ID associated with the reporting PCA name in the third variable.
   Source: Updated FERC-714 Schedule 5

3. **NERC Region Acronym Associated with the Reporting PCA (NERC) –**
   This field contains the acronym NERC region associated with the reporting PCA.
   Source: Updated EIA-861

4. **PCA Name of Adjacent PCA (PCANMADJ) –**
   This field contains the PCA name of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

5. **PCA ID of Adjacent PCA (PCAIDADJ) –**
   This field contains the PCA ID of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

6. **NERC Region Acronym Associated with the Adjacent PCA (NERCADJ) –**
   This field contains the acronym NERC region associated with the adjacent PCA.
   Source: Updated EIA-861

7. **1996 Energy Received by Reporting PCA from the Adjacent PCA (RCRECD96) –**
   This field, in MWh, contains the energy received by the reporting PCA from the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (e)

8. **1996 Energy Delivered by Reporting PCA to the Adjacent PCA (RCDLVD96) –**
   This field, in MWh, contains the energy delivered by the reporting PCA to the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (f)

9. **1996 Net Interchange of the Reporting PCA with the Adjacent PCA (RCNETI96) –**
   This field, in MWh, contains the net interchange of the reporting PCA with the adjacent PCA. Positive values denote net imports; negative values denote net exports. The algorithm is RCNETI96 = RCRECD96 - RCDLVD96.

THE EGPINT96 FILE

10. **1996 Adjacent PCA's Report of Energy Received from the Reporting PCA (ACRECD96) –**
This field, in MWh, contains the adjacent PCA's report of energy received from the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (e)

11. **1996 Adjacent PCA's Report of Energy Delivered to the Reporting PCA (ACDLVD96) –**
This field, in MWh, contains the adjacent PCA's report of energy delivered to the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (f)

12. **1996 Net Interchange of the Adjacent PCA with the Reporting PCA (ACNETI96) –**
This field, in MWh, contains the net interchange of the adjacent PCA with the reporting PCA. Positive values denote net imports; negative values denote net exports. The algorithm is ACNETI96 = ACRECD96 - ACDLVD96.

13. **1996 PCA Match Flag to Determine if RCNETI96 = -ACNETI96 (MATCHP96) –**
This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

14. **eGRID2000 1998 File Owner-Based PCA Sequence Number (SEQPCO98) –**
This field contains the owner-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAO; it can be used to link the data for the same owner PCA.

15. **eGRID2000 1998 File Location (Operator)-Based PCA Sequence Number (SEQPCP98) –**
This field contains the location (operator)-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAL; it can be used to link the data for the same location (operator)-based PCA.

THE EGPINT97 FILE

There are 15 variables in the thirty-second subfile, EGPINT97, which contains interchange data among PCAs for 1997. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **PCA Name of Reporting PCA (PCANAME) –**
   This field contains the PCA name of the reporting PCA, the PCA with the sequence numbers in the first and second variables.
   Source: Updated FERC-714 Schedule 5

2. **PCA ID of Reporting PCA (PCAID) –**
   This field contains the PCA ID associated with the reporting PCA name in the third variable.
   Source: Updated FERC-714 Schedule 5

3. **NERC Region Acronym Associated with the Reporting PCA (NERC) –**
   This field contains the acronym NERC region associated with the reporting PCA.
   Source: Updated EIA-861

4. **PCA Name of Adjacent PCA (PCANMADJ) –**
   This field contains the PCA name of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

5. **PCA ID of Adjacent PCA (PCAIDADJ) –**
   This field contains the PCA ID of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

6. **NERC Region Acronym Associated with the Adjacent PCA (NERCADJ) –**
   This field contains the acronym NERC region associated with the adjacent PCA.
   Source: Updated EIA-861

7. **1997 Energy Received by Reporting PCA from the Adjacent PCA (RCRECD97) –**
   This field, in MWh, contains the energy received by the reporting PCA from the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (e)

8. **1997 Energy Delivered by Reporting PCA to the Adjacent PCA (RCDLVD97) –**
   This field, in MWh, contains the energy delivered by the reporting PCA to the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (f)

9. **1997 Net Interchange of the Reporting PCA with the Adjacent PCA (RCNETI97) –**
   This field, in MWh, contains the net interchange of the reporting PCA with the adjacent PCA. Positive values denote net imports; negative values denote net exports. The algorithm is RCNETI97 = RCRECD97 - RCDLVD97.

THE EGPINT97 FILE

10. **1997 Adjacent PCA's Report of Energy Received from the Reporting PCA (ACRECD97) –**
This field, in MWh, contains the adjacent PCA's report of energy received from the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (e)

11. **1997 Adjacent PCA's Report of Energy Delivered to the Reporting PCA (ACDLVD97) –**
This field, in MWh, contains the adjacent PCA's report of energy delivered to the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (f)

12. **1997 Net Interchange of the Adjacent PCA with the Reporting PCA (ACNETI97) –**
This field, in MWh, contains the net interchange of the adjacent PCA with the reporting PCA. Positive values denote net imports; negative values denote net exports. The algorithm is ACNETI95 = ACRECD95 - ACDLVD95.

13. **1997 PCA Match Flag to Determine if RCNETI97 = -ACNETI97 (MATCHP97) –**
This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

14. **eGRID2000 1998 File Owner-Based PCA Sequence Number (SEQPCO98) –**
This field contains the owner-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAO; it can be used to link the data for the same owner PCA.

15. **eGRID2000 1998 File Location (Operator)-Based PCA Sequence Number (SEQPCP98) –**
This field contains the location (operator)-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAL; it can be used to link the data for the same location (operator)-based PCA.

THE EGPINT98 FILE

There are 15 variables in the thirty-third subfile, EGPINT98, which contains interchange data among PCAs for 1998. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **PCA Name of Reporting PCA (PCANAME) –**
   This field contains the PCA name of the reporting PCA, the PCA with the sequence numbers in the first and second variables.
   Source: Updated FERC-714 Schedule 5

2. **PCA ID of Reporting PCA (PCAID) –**
   This field contains the PCA ID associated with the reporting PCA name in the third variable.
   Source: Updated FERC-714 Schedule 5

3. **NERC Region Acronym Associated with the Reporting PCA (NERC) –**
   This field contains the acronym NERC region associated with the reporting PCA.
   Source: Updated EIA-861

4. **PCA Name of Adjacent PCA (PCANMADJ) –**
   This field contains the PCA name of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

5. **PCA ID of Adjacent PCA (PCAIDADJ) –**
   This field contains the PCA ID of the PCA adjacent to the reporting PCA.
   Source: Updated FERC-714 Schedule 5

6. **NERC Region Acronym Associated with the Adjacent PCA (NERCADJ) –**
   This field contains the acronym NERC region associated with the adjacent PCA.
   Source: Updated EIA-861

7. **1998 Energy Received by Reporting PCA from the Adjacent PCA (RCRECD98) –**
   This field, in MWh, contains the energy received by the reporting PCA from the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (e)

8. **1998 Energy Delivered by Reporting PCA to the Adjacent PCA (RCDLVD98) –**
   This field, in MWh, contains the energy delivered by the reporting PCA to the adjacent PCA.
   Source: Updated FERC-714 Schedule 5, Col (f)

9. **1998 Net Interchange of the Reporting PCA with the Adjacent PCA (RCNETI98) –**
   This field, in MWh, contains the net interchange of the reporting PCA with the adjacent PCA. Positive values denote net imports; negative values denote net exports. The algorithm is RCNETI98 = RCRECD98 - RCDLVD98.

THE EGPINT98 FILE

10. **1998 Adjacent PCA's Report of Energy Received from the Reporting PCA (ACRECD98) –**
This field, in MWh, contains the adjacent PCA's report of energy received from the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (e)

11. **1998 Adjacent PCA's Report of Energy Delivered to the Reporting PCA (ACDLVD98) –**
This field, in MWh, contains the adjacent PCA's report of energy delivered to the reporting PCA.
Source: Updated FERC-714 Schedule 5, Col (f)

12. **1998 Net Interchange of the Adjacent PCA with the Reporting PCA (ACNETI98) –**
This field, in MWh, contains the net interchange of the adjacent PCA with the reporting PCA. Positive values denote net imports; negative values denote net exports. The algorithm is ACNETI98 = ACRECD98 - ACDLVD98.

13. **1998 PCA Match Flag to Determine if RCNETI98 = -ACNETI98 (MATCHP98) –**
This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

14. **eGRID2000 1998 File Owner-Based PCA Sequence Number (SEQPCO98) –**
This field contains the owner-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAO; it can be used to link the data for the same owner PCA.

15. **eGRID2000 1998 File Location (Operator)-Based PCA Sequence Number (SEQPCP98) –**
This field contains the location (operator)-based PCA sequence number of the reporting PCA and is the same as the one in EGRDPCAL; it can be used to link the data for the same location (operator)-based PCA.

THE EGNINT94 FILE

There are 10 variables in the thirty-fourth subfile, EGNINT94, which contains interchange data among NERC regions for 1994. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **NERC Region Acronym of Reporting NERC Region (NERC) –**
   This field contains the acronym for the NERC region that is the reporting NERC region.

2. **NERC Acronym of Adjacent NERC Region (NERCADJ) –**
   This field contains the acronym for the NERC region adjacent to the reporting NERC region.

3. **1994 Energy Received by Reporting NERC from the Adjacent NERC (RNRECD94) –**
   This field, in MWh, contains the energy received by the reporting NERC region from the adjacent NERC region.

4. **1994 Energy Delivered by Reporting NERC to the Adjacent NERC (RNDLVD94) –**
   This field, in MWh, contains the energy delivered by the reporting NERC region to the adjacent NERC region.

5. **1994 Net Interchange of the Reporting NERC with the Adjacent NERC (RNNETI94) –**
   This field, in MWh, contains the net interchange of the reporting NERC region with the adjacent NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is RNNETI94 = RNRECD94 - RNDLVD94.

6. **1994 Adjacent NERC's Report of Energy Received from the Reporting NERC (ANRECD94) –**
   This field, in MWh, contains the adjacent NERC region's report of energy received from the reporting NERC region.

7. **1994 Adjacent NERC's Report of Energy Delivered to the Reporting NERC (ANDLVD94) –**
   This field, in MWh, contains the adjacent NERC region's report of energy delivered to the reporting NERC region.

8. **1994 Net Interchange of the Adjacent NERC with the Reporting NERC (ANNETI94) –**
   This field, in MWh, contains the net interchange of the adjacent NERC region with the reporting NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is ANNETI94 = ANRECD94 - ANDLVD94.

9. **1994 NERC Match Flag to Determine if RNNETI94 = -ANNETI94 (MATCHN94) –**
   This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

THE EGNINT94 FILE

10. **eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –**
This field contains the NERC region sequence number of the reporting NERC region and is the same in both EGRDNRO and EGRDNRP files; it can be used to link to the data for the same NERC region.

THE EGNINT95 FILE

There are 10 variables in the thirty-fifth subfile, EGNINT95, which contains interchange data among NERC regions for 1995. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **NERC Region Acronym of Reporting NERC Region (NERC) –**
   This field contains the acronym for the NERC region that is the reporting NERC region.

2. **NERC Acronym of Adjacent NERC Region (NERCADJ) –**
   This field contains the acronym for the NERC region adjacent to the reporting NERC region.

3. **1995 Energy Received by Reporting NERC from the Adjacent NERC (RNRECD95) –**
   This field, in MWh, contains the energy received by the reporting NERC region from the adjacent NERC region.

4. **1995 Energy Delivered by Reporting NERC to the Adjacent NERC (RNDLVD95) –**
   This field, in MWh, contains the energy delivered by the reporting NERC region to the adjacent NERC region.

5. **1995 Net Interchange of the Reporting NERC with the Adjacent NERC (RNNETI95) –**
   This field, in MWh, contains the net interchange of the reporting NERC region with the adjacent NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is RNNETI95 = RNRECD95 - RNDLVD95.

6. **1995 Adjacent NERC's Report of Energy Received from the Reporting NERC (ANRECD95) –**
   This field, in MWh, contains the adjacent NERC region's report of energy received from the reporting NERC region.

7. **1995 Adjacent NERC's Report of Energy Delivered to the Reporting NERC (ANDLVD95) –**
   This field, in MWh, contains the adjacent NERC region's report of energy delivered to the reporting NERC region.

8. **1995 Net Interchange of the Adjacent NERC with the Reporting NERC (ANNETI95) –**
   This field, in MWh, contains the net interchange of the adjacent NERC region with the reporting NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is ANNETI95 = ANRECD95 - ANDLVD95.

9. **1995 NERC Match Flag to Determine if RNNETI95 = -ANNETI95 (MATCHN95) –**
   This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

THE EGNINT95 FILE

10. **eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –**
This field contains the NERC region sequence number of the reporting NERC region and is the same in both EGRDNRO and EGRDNRP files; it can be used to link to the data for the same NERC region.

THE EGNINT96 FILE

There are 10 variables in the thirty-sixth subfile, EGNINT96, which contains interchange data among NERC regions for 1996. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **NERC Region Acronym of Reporting NERC Region (NERC) –**
   This field contains the acronym for the NERC region that is the reporting NERC region.

2. **NERC Acronym of Adjacent NERC Region (NERCADJ) –**
   This field contains the acronym for the NERC region adjacent to the reporting NERC region.

3. **1996 Energy Received by Reporting NERC from the Adjacent NERC (RNRECD96) –**
   This field, in MWh, contains the energy received by the reporting NERC region from the adjacent NERC region.

4. **1996 Energy Delivered by Reporting NERC to the Adjacent NERC (RNDLVD96) –**
   This field, in MWh, contains the energy delivered by the reporting NERC region to the adjacent NERC region.

5. **1996 Net Interchange of the Reporting NERC with the Adjacent NERC (RNNETI96) –**
   This field, in MWh, contains the net interchange of the reporting NERC region with the adjacent NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is RNNETI96 = RNRECD96 - RNDLVD96.

6. **1996 Adjacent NERC's Report of Energy Received from the Reporting NERC (ANRECD96) –**
   This field, in MWh, contains the adjacent NERC region's report of energy received from the reporting NERC region.

7. **1996 Adjacent NERC's Report of Energy Delivered to the Reporting NERC (ANDLVD96) –**
   This field, in MWh, contains the adjacent NERC region's report of energy delivered to the reporting NERC region.

8. **1996 Net Interchange of the Adjacent NERC with the Reporting NERC (ANNETI96) –**
   This field, in MWh, contains the net interchange of the adjacent NERC region with the reporting NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is ANNETI96 = ANRECD96 - ANDLVD96.

9. **1996 NERC Match Flag to Determine if RNNETI96 = -ANNETI96 (MATCHN96) –**
   This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

10. eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –
This field contains the NERC region sequence number of the reporting NERC region and is the same in both EGRDNRO and EGRDNRP files; it can be used to link to the data for the same NERC region.

THE EGNINT97 FILE

There are 10 variables in the thirty-seventh subfile, EGNINT97, which contains interchange data among NERC regions for 1997. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **NERC Region Acronym of Reporting NERC Region (NERC) –**
   This field contains the acronym for the NERC region that is the reporting NERC region.

2. **NERC Acronym of Adjacent NERC Region (NERCADJ) –**
   This field contains the acronym for the NERC region adjacent to the reporting NERC region.

3. **1997 Energy Received by Reporting NERC from the Adjacent NERC (RNRECD97) –**
   This field, in MWh, contains the energy received by the reporting NERC region from the adjacent NERC region.

4. **1997 Energy Delivered by Reporting NERC to the Adjacent NERC (RNDLVD97) –**
   This field, in MWh, contains the energy delivered by the reporting NERC region to the adjacent NERC region.

5. **1997 Net Interchange of the Reporting NERC with the Adjacent NERC (RNNETI97) –**
   This field, in MWh, contains the net interchange of the reporting NERC region with the adjacent NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is RNNETI97 = RNRECD97 - RNDLVD97.

6. **1997 Adjacent NERC's Report of Energy Received from the Reporting NERC (ANRECD97) –**
   This field, in MWh, contains the adjacent NERC region's report of energy received from the reporting NERC region.

7. **1997 Adjacent NERC's Report of Energy Delivered to the Reporting NERC (ANDLVD97) –**
   This field, in MWh, contains the adjacent NERC region's report of energy delivered to the reporting NERC region.

8. **1997 Net Interchange of the Adjacent NERC with the Reporting NERC (ANNETI97) –**
   This field, in MWh, contains the net interchange of the adjacent NERC region with the reporting NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is ANNETI97 = ANRECD97 - ANDLVD97.

9. **1997 NERC Match Flag to Determine if RNNETI97 = -ANNETI97 (MATCHN97) –**
   This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

10. eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –
This field contains the NERC region sequence number of the reporting NERC region and is the same in both EGRDNRO and EGRDNRP files; it can be used to link to the data for the same NERC region.

THE EGNINT98 FILE

There are 10 variables in the thirty-eighth subfile, EGNINT98, which contains interchange data among NERC regions for 1998. This file is unchanged from that in eGRID2000, except for the new 1999 and 2000 sequence numbers.

1. **NERC Region Acronym of Reporting NERC Region (NERC) –**
   This field contains the acronym for the NERC region that is the reporting NERC region.

2. **NERC Acronym of Adjacent NERC Region (NERCADJ) –**
   This field contains the acronym for the NERC region adjacent to the reporting NERC region.

3. **1998 Energy Received by Reporting NERC from the Adjacent NERC (RNRECD98) –**
   This field, in MWh, contains the energy received by the reporting NERC region from the adjacent NERC region.

4. **1998 Energy Delivered by Reporting NERC to the Adjacent NERC (RNDLVD98) –**
   This field, in MWh, contains the energy delivered by the reporting NERC region to the adjacent NERC region.

5. **1998 Net Interchange of the Reporting NERC with the Adjacent NERC (RNNETI98) –**
   This field, in MWh, contains the net interchange of the reporting NERC region with the adjacent NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is RNNETI98 = RNRECD98 - RNDLVD98.

6. **1998 Adjacent NERC's Report of Energy Received from the Reporting NERC (ANRECD98) –**
   This field, in MWh, contains the adjacent NERC region's report of energy received from the reporting NERC region.

7. **1998 Adjacent NERC's Report of Energy Delivered to the Reporting NERC (ANDLVD98) –**
   This field, in MWh, contains the adjacent NERC region's report of energy delivered to the reporting NERC region.

8. **1998 Net Interchange of the Adjacent NERC with the Reporting NERC (ANNETI98) –**
   This field, in MWh, contains the net interchange of the adjacent NERC region with the reporting NERC region. Positive values denote net imports; negative values denote net exports. The algorithm is ANNETI98 = ANRECD98 - ANDLVD98.

9. **1998 NERC Match Flag to Determine if RNNETI98 = -ANNETI98 (MATCHN98) –**
   This field contains a flag which indicates whether the reporting and adjacent net interchanges match (are the negative of each other) (Y=Yes, matches perfectly; 1=Matches within 1%; 5=Matches within 5%; N=No match and there is a difference that is more than 5%).

10. eGRID2000 1998 File NERC Region Sequence Number (SEQNR98) –
This field contains the NERC region sequence number of the reporting NERC region and is the same in both EGRDNRO and EGRDNRP files; it can be used to link to the data for the same NERC region.

SECTION 5
SPECIFIC eGRID ID AND NAME CHANGES

eGRID2002 generally uses ID codes (for plants, companies, etc.) assigned by EIA. However, identifiers (IDs) and certain corresponding names have been changed in eGRID2002 in order to minimize confusion. The specifics are delineated below.

PLANT LEVEL

One plant, Laramie River Station (ORIS plant code=6204) in Wyoming, has three boilers and generators that supply power to two different power grids. Consequently, the first boiler (1) has become a separate plant in eGRID2002 with a new (dummy) ORIS plant code 6204.1 because it is operated within a PCA that is in the MAPP NERC region in the Eastern grid; while the second and third boilers have become a separate plant with a new (dummy) ORIS plant code 6204.2 because they are operated within a PCA that is in the WECC NERC region in the Western grid.

Three complex plant divestitures required special treatment in eGRID. For Chena (ORISPL=79), all generators except generator 6 were sold to a nonutility. Since the ORIS code was left unchanged, for purposes of eGRID, we had to distinguish between the utility plant, Chena, with one generator (6) and the nonutility plant, renamed Aurora, with several generators. Thus, the utility plant Chena retained the ORISPL of 79, while the nonutility plant Aurora was assigned an ORISPL of 797979. For Indian River (ORISPL=683), the GT generators remained with the utility plant, which retained the ORISPL of 683; the sold ST generators became a nonutility plant named Reliant Indian River, with an ORISPL of 55318. For Astoria (ORISPL=8906), all but one (small) GT generator become a nonutility plant named Astoria Gas with an ORISPL of 55243; the ST generators and the one small GT retained the original name and ORIS code of 8906, but now comprise a nonutility plant because they, too, were sold.

COMPANY LEVEL

Several companies were broken up (and given dummy IDs) because the company operates in more than one power control area. These include:

- Basin Electric Power Coop (ID=1307), which was broken up into two divisions: Basin Electric Power Coop-East (ID=1307.1) and Basin Electric Power Coop-West (ID=1307.2);
- Citizens Communications (formerly Citizens Utilities) Co (ID=3611), which was broken up into three divisions: Citizens Communications Co-HI (ID=3611.1), Citizens Communications Co-VT (ID=3611.2), and Citizens Communications Co-AZ (ID=3611.3) – the Hawaii division has been sold;
- Pacificorp (ID=14354), which was broken up into two divisions: Pacificorp-East (ID=14354.1) and Pacificorp-West (ID=14354.2);
- Texas-New Mexico Power Co (ID=40051), which was broken up into Texas-New Mexico Power Co-NM (ID=40051.1) and Texas-New Mexico Power Co-TX (ID=40051.2); and
- Aquila Networks (ID= -230) (formerly Utilicorp United, ID=3285), which was broken up into Aquila Networks Co-Colorado (ID= -230.1), Aquila Networks Co-Kansas (ID= -230.2), and Aquila Networks-Missouri (ID= -230.3).

PARENT COMPANY LEVEL

The following companies (including some government agencies) which are divided at the company level have been grouped as a single parent company at the parent company level:

- Basin Electric Power Coop (ID=1307), which includes two Basin Electric Power Coop EGC divisions;
- Citizens Communications Co (ID=3611), which includes three Citizens Communications Co EGC divisions;
- Pacificorp (ID=14354), which includes two Pacificorp EGC divisions; it was absorbed by Scottish Power PLC (ID= -7048);
- U.S. Army Corp of Engineers, USCE, (ID= -7059), which includes 13 EGCs which are divisions of the Corps of Engineers;
- U.S. Bureau of Indian Affairs, USBIA, (ID= -7060), which includes three EGCs which are divisions of the Bureau of Indian Affairs;
- U.S. Bureau of Reclamation (ID= -7061), which includes five EGCs which are divisions of the Bureau of Reclamation; and
- Aquila Networks (ID= -7062), which includes the two former Utilicorp United divisions Aquila Networks-Colorado (ID= -230.1) and Aquila Networks-Kansas (ID= -230.2), as well as the former Missouri Public Service Co. Aquila Networks-Missouri (ID= -230.1).

Where parent companies have merged to form a larger parent company, eGRID reports data for the new parent company as well as for the original parent company configuration. In the only example in eGRID2002, data are reported for the original parent companies by creating “dummy” parent companies:

- American Electric Power Co. Inc. (ID=829) was broken down for the parent company files into American Electric Power Co. Inc. (east) (ID=829.1) representing the original AEP and American Electric Power Co. Inc. (west) (ID=829.2) representing the original Central & Southwest Corp. Nine of the 13 EGCs subsidiaries of AEP are in AEP (east), while the remaining 4 EGCs are in AEP (west).

Where a company owned or operated both a utility and nonutility plant, it was necessary to create both a utility and nonutility EGC for eGRID. (The nonutility EGCID was assigned by eGRID to be the negative of the utility EGCID if an ID was not available.) These EGCs were then united under a dummy parent company. The split EGCs and their parent companies include:

- Key West City of (ID= -7072) parent company and its utility EGC, Key West City of (ID=10226) and nonutility EGC, Key West City of NUGs (ID= -10226); and
- Redlands Water & Power Co. (ID= -7073) parent company and its utility EGC, Redlands Water & Power Co. (ID=15787) and nonutility EGC, Redlands Water & Power Co. NUGs (ID=-15787).
- Morgantown City of (ID= -7118) parent company and its utility EGC, Morgantown City of (ID=12944) and its nonutility EGC, Morgantown City of NUGs (ID= -12944).
- Tacoma City of (ID= -7116) parent company and its utility EGC, Tacoma City of (ID=18429) and its nonutility EGC, Tacoma City of NUGs (ID= -18429).

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APPENDIX A
eGRID2002 FILE STRUCTURE - VARIABLE DESCRIPTIONS FOR 1996-2000 COMBINED DATA YEARS

The 1996, 1997, 1998, 1999, and 2000 data for eGRID2002 are initially in data base format. All the files are then transformed into Access 2000 tables for use as input for eGRID2002PC. The data base files are also transformed into Excel spreadsheets and saved as one or more Excel workbooks for each data year.

Because some eGRID users have requested unadjusted emission values for biomass and solid waste facilities, eGRID2002 includes these unadjusted values along with final eGRID values in a spreadsheet called EGRDBMSW for 1997 and 1998 data years only. This spreadsheet is also included in the Excel workbook for those data years.

The structure of the 38 data base files, including descriptions of the variables, sources of data, and data years for which the variable has an available value, are delineated below in a combined data years file structure.

Table 1
eGRID File Structure - 1996-2000
#1 - EGRDBLR Boiler File

Field	Name	Description	Source(s)	Data Years				
1	SEQBLR00	eGRID2002 2000 file boiler sequence number					99	00
2	SEQBLR99	eGRID2002 1999 file boiler sequence number					99	00
3	PSTATABB	State abbreviation	EIA-767, EIA-860A, EIA-860B	96	97	98	99	00
4	PNAME	Plant name	EIA-860A, EIA-767	96	97	98	99	00
5	ORISPL	DOE/EIA ORIS plant or facility code	EIA-767, EIA-860A, EIA-860B	96	97	98	99	00
6	BLRID	Boiler ID	EIA-767, ETS/CEM	96	97	98	99	00
7	AFFECTED	Affected flag	ETS/CEM			98	99	00
8	BOTFIRTY	Boiler bottom and firing types	ARDB			98	99	00
9	BOILCAP	Boiler capacity (MMBtu/hr)	EIA-767, Trends NET steam utility component	96	97	98	99	00
10	NUMGEN	Number of associated generators	EIA-767	96	97	98	99	00
11	FUELB1	Primary boiler fuel	ETS/CEM, Trends NET steam utility component	96	97	98	99	00
12	LOADHRS	Hours connected to load	EIA-767	96	97	98	99	00
13	HTIEAN	Boiler annual ETS/CEM heat input (MMBtu)	ETS/CEM	96	97	98	99	00
14	HTIEOZ	Boiler ozone season ETS/CEM heat input (MMBtu)	ETS/CEM			98	99	00
15	HTIFAN	Boiler annual total EIA-based calculated heat input (MMBtu)		96	97	98	99	00
16	HTIFOZ	Boiler ozone season EIA-based calculated heat input (MMBtu)				98	99	00
17	HTICL	Boiler annual EIA-based calculated coal heat input (MMBtu)		96	97	98	99	00
18	HTIOL	Boiler annual EIA-based calculated oil heat input (MMBtu)		96	97	98	99	00
19	HTIGS	Boiler annual EIA-based calculated gas heat input (MMBtu)		96	97	98	99	00
20	HTIBM	Boiler annual EIA-based calculated biomass/wood heat input (MMBtu)		96	97	98	99	00
21	HTISW	Boiler 2000 annual EIA-based calculated solid waste heat input (MMBtu)		96	97			
22	HTIOT	Boiler annual EIA-based calculated other fuel heat input (MMBtu)				98	99	00
23	HTIBAN	Boiler annual best heat input (MMBtu)		96	97	98	99	00
24	HTIBOZ	Boiler ozone season best heat input (MMBtu)				98	99	00
25	NOXEAN	Boiler annual ETS/CEM NO_x emissions (tons)	ETS/CEM	96	97	98	99	00
26	NOXEOZ	Boiler ozone season ETS/CEM NO_x emissions (tons)	ETS/CEM	96	97	98	99	00
27	NOXFAN	Boiler annual EIA-based calculated NO_x emissions (tons)		96	97	98	99	00
28	NOXFOZ	Boiler ozone season EIA-based calculated NO_x emissions (tons)		96	97	98	99	00
29	SO2EAN	Boiler annual ETS/CEM SO_2 emissions (tons)	ETS/CEM	96	97	98	99	00
30	SO2FAN	Boiler annual EIA-based calculated SO_2 emissions (tons)		96	97	98	99	00
31	CO2EAN	Boiler annual ETS/CEM CO_2 emissions (tons)	ETS/CEM	96	97	98	99	00
32	CO2FAN	Boiler annual EIA-based calculated CO_2 emissions (tons)		96	97	98	99	00
33	SRCBEST	Source of “best” heat input, NO_x, SO_2, and CO_2 data (E=ETS/CEM or F=EIA-based)			97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#1 - EGRDBLR Boiler File (continued)

Field	Name	Description	Source(s)	Data Years				
34	NOXBAN	Boiler annual best NO_x emissions (tons)		96	97	98	99	00
35	NOXBOZ	Boiler ozone season best NO_x emissions (tons)		96	97	98	99	00
36	SO2BAN	Boiler annual best SO_2 emissions (tons)		96	97	98	99	00
37	CO2BAN	Boiler annual best CO_2 emissions (tons)		96	97	98	99	00
38	SO2CTLDV	SO_2 (scrubber) control device for utilities	EIA-767			98	99	00
39	NOXCTLDV	NO_x control device for utilities	EIA-767			98	99	00
40	T4A00	Year 2000 Title IV SO_2 1998 reallocation plus repowering allowance (tons)	ATS			98	99	00
41	T4A10	Year 2010 Title IV SO_2 1998 reallocation plus repowering allowance (tons)	ATS			98	99	00
42	BLRYRONL	Boiler year on-line	EIA-767		97	98	99	00
43	BLRSEQ	Unique boiler identifier originating in NADB, and continuing in ARDB and IMDB data files	IMDB			98	99	00
44	SEQBLR	eGRID96 1996 file boiler sequence number		96	97	98	99	00
45	SEQBLR97	eGRID97 1997 file boiler sequence number		96	97	98	99	00
46	SEQBLR98	eGRID2000 1998 file boiler sequence number		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#2 - EGRDGEN Generator File[@]

Field	Name	Description	Source(s)	Data Years				
1	SEQGEN00	eGRID2002 2000 file generator sequence number					99	00
2	SEQGEN99	eGRID2002 1999 file generator sequence number					99	00
3	PSTATABB	State abbreviation	EIA-860A, EIA-860B, EIA-767	96	97	98	99	00
4	PNAME	Plant name	EIA-860A, EIA-860B, EIA-767	96	97	98	99	00
5	ORISPL	DOE/EIA ORIS plant or facility code	EIA-860A, EIA-860B, EIA-767	96	97	98	99	00
6	GENID	Generator ID or grouped identifier	EIA-860A, EIA-860B, EIA-767	96	97	98	99	00
7	GENTYPE	Generator type (UT=Utility, NU=Nonutility)	EIA-767, EIA-860B			98	99	00
8	NUMBLR	Number of associated boilers	EIA-767		97	98	99	00
9	GENSTAT	Generator status	EIA-860A, EIA-860B	96	97	98	99	00
10	PRMVR	Prime mover type	EIA-860A, EIA-860B	96	97	98	99	00
11	FUELG1	Primary generator fuel	EIA-860A, EIA-860B	96	97	98	99	00
12	NAMEPCAP	Generator nameplate capacity (MW)	EIA-860A, EIA-767,EIA-860B	96	97	98	99	00
13	CFACT	Generator capacity factor		96	97	98	99	00
14	GENNTAN	Generator annual net generation (MWh)	EIA-767, EIA-860B	96	97	98	99	00
15	GENNTOZ	Generator ozone season net generation (MWh)		96	97	98	99	00
16	GENYRONL	Generator year on-line	EIA-860A, EIA-860B		97	98	99	00
17	SEQGEN	eGRID96 1996 file generator sequence number		96	97	98	99	00
18	SEQGEN97	eGRID97 1997 file generator sequence number		96	97	98	99	00
19	SEQGEN98	eGRID2000 1998 file generator sequence number		96	97	98	99	00

[@]File includes only utility generators for 1996 and 1997 data; nonutility generators also included for 1998, 1999, and 2000 data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#3 - EGRDPLNT Plant File

Field	Name	Description	Source(s)	Data Years				
1	SEQPLT00	eGRID2002 2000 file plant sequence number					99	00
2	SEQPLT99	eGRID2002 1999 file plant sequence number					99	00
3	PSTATABB	State abbreviation	EIA-767, EIA-860A, EIA-860B	96	97	98	99	00
4	PNAME	Plant name		96	97	98	99	00
5	ORISPL	DOE/EIA ORIS plant or facility code		96	97	98	99	00
6	PLTYPE	Plant type ('UT' or 'NU')		96	97	98	99	00
7	PREVUTIL	Previously a utility plant flag	EIA sold file lists plus updates			98	99	00
8	CHANGE	Change? (Y or N) – If Y, go to EGRDPLCH file				98	99	00
9	OPRNAME	Plant operator name	EIA-860A, EIA-860B	96	97	98	99	00
10	OPRCODE	Plant operator ID	EIA-860A, EIA-860B	96	97	98	99	00
11	UTLSRVNM	Nonutility's service area name		96	97	98	99	00
12	UTLSRVID	Nonutility's service area ID		96	97	98	99	00
13	OPPRNUM	Location (operator)-based parent company ID				98	99	00
14	OPPRNAME	Location (operator)-based parent company name				98	99	00
15	PCANAME	Location (operator)-based power control area name	FERC-714, EIA-861 plus updates	96	97	98	99	00
16	PCAID	Location (operator)-based power control area ID	FERC-714, EIA-861 plus updates	96	97	98	99	00
17	NERC	Location (operator)-based NERC region acronym	EIA-861, EIA-860A plus updates	96	97	98	99	00
18	NERCNUM	NERC number associated with NERC region	EIA-759			98	99	00
19	SUBRGN	eGRID subregion acronym				98	99	00
20	SRNAME	eGRID subregion name				98	99	00
21	FIPST	Plant FIPS State code	EIA-860A, EIA-759	96	97	98	99	00
22	FIPSCNY	Plant FIPS county code	EIA-860A	96	97	98	99	00
23	CNTYNAME	Plant county name	EIA-767, EIA-860A	96	97	98	99	00
24	LAT	Plant latitude	EIA-767, update files	96	97	98	99	00
25	LON	Plant longitude	EIA-767, update files	96	97	98	99	00
26	NUMBLR	Number of utility boilers				98	99	00
27	NUMGEN	Number of generators				98	99	00
28	SOURCEM	Plant emissions source(s) (T=ETS/CEM NO_x, SO_2, CO_2 emissions reported to EPA; E=Emissions estimated by applying EPA AP-42 emission factors (or carbon coefficients) to fuel data from EIA-767, EIA-759, FERC-423, EIA-860B, or default values; Z=Plant utilizes energy resources with zero emissions; W=EPA's Year 2000 Large MWC Boiler Data Base for SO_2, NO_x, and Hg. Note that the source for any other Hg emissions is EPA's 1999 Mercury ICE.)		96	97	98	99	00
29	PLPRIMFL	Plant primary fuel				98	99	00
30	PLFFLCTG	Plant fossil fuel category (C=Coal; O=Oil; G=Gas)				98	99	00
31	CAPFAC	Plant capacity factor			97	98	99	00
32	BOILCAP	Utility plant boiler capacity (MMBtu/hr)	EIA-767, Trends steam utility component	96	97	98	99	00
33	NAMEPCAP	Plant generator capacity (MW)	EIA-860A, EIA-860B	96	97	98	99	00
34	CHPFLAG	Combined heat and power (CHP) (cogenerator) plant flag			97	98	99	00
35	USETHRMO	CHP plant useful thermal output (MMBtu)	EIA-860B, EIA-767	96	97	98	99	00
36	PWRTOHT	CHP plant power to heat ratio				98	99	00
37	ELCALLOC	CHP plant electric allocation factor				98	99	00
38	PLNUCONN	Nonutility plant connected to grid flag (Y=Yes, N=No)	EIA-860B		97	98	99	00
39	PSFLG	Plant pumped storage flag	EIA-860A	96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#3 - EGRDPLNT Plant File (continued)

Field	Name	Description	Source(s)	Data Years				
40	ARDBNU	ARD nonutility flag (1=nonutility that reports positive values to ARD's ETS/CEM; 2=otherwise)		96				
41	LMSWFLG	Nonutility plant landfill methane (='LM) or solid waste (='SW) flag	LMOP, MWC	96	97			
42	PLNUCMBS	Plant nonutility combustion flag (Y=yes, N=no)	EIA-867		97			
43	PLNUCOAL	Plant nonutility coal flag (Y=yes, N=no)	Mercury ICE Data Base		97			
44	UTNOWNU	Now nonutility flag (1=nonutility that reports positive values to ARD's ETS/CEM or EIA's utility survey; 2=otherwise)			97			
45	GENERVAL	Generation value source (1=utility or nonutility reporting to ARD/EIA; 2=all other nonutilities)		96	97			
46	EMISVAL	Emission value source (1=utility, nonutility reporting to ARD, landfill methane/solid waste nonutility, or noncombustion nonutility; 2=otherwise - a nonutility using regional emission rates)		96	97			
47	RESMXVAL	Resource mix value source (1=utility, nonutility reporting to ARD, or landfill methane/solid waste nonutility; 2=otherwise - a nonutility with no known resource mix)		96	97			
48	PLHTIAN*	Plant annual heat input (MMBtu)	ETS/CEM, EIA-767, EIA-759/ FERC-423, EIA-860B	96	97	98	99	00
49	PLHTIOZ*	Plant ozone season heat input (MMBtu)		96	97	98	99	00
50	PLGGENAN	Plant annual gross generation (MWh)	ETS/CEM	96	97			
51	PLNGENAN*	Plant annual net generation (MWh)	EIA-759, EIA-767, EIA-860B	96	97	98	99	00
52	PLNGENOZ*	Plant ozone season net generation (MWh)	EIA-759, EIA-767, EIA-860B	96	97	98	99	00
53	PLNOXAN*	Plant annual NO_x emissions (tons)	ETS/CEM, EIA-767, EIA-759/ FERC-423, EIA-860B	96	97	98	99	00
54	PLNOXOZ*	Plant ozone season NO_x emissions (tons)	ETS/CEM, EIA-767, EIA-759/ FERC-423, EIA-860B	96	97	98	99	00
55	PLSO2AN*	Plant annual SO_2 emissions (tons)	ETS/CEM, EIA-767, EIA-759/ FERC-423, EIA-860B	96	97	98	99	00
56	PLCO2AN*	Plant annual CO_2 emissions (tons)	ETS/CEM, EIA-759/FERC-423, EIA-860B	96	97	98	99	00
57	PLHGAN*	Plant annual mercury emissions (lbs)	Mercury ICE			98	99	00
58	PLNOXRTA	Plant annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
59	PLNOXRTO	Plant ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
60	PLSO2RTA	Plant annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
61	PLCO2RTA	Plant annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
62	PLHGRTA	Plant annual mercury output emission rate (lbs/GWh)				98	99	00
63	PLNOXRA	Plant annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
64	PLNOXRO	Plant ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
65	PLSO2RA	Plant annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
66	PLCO2RA	Plant annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
67	PLHGRA	Plant annual mercury input emission rate (lbs/BBtu)				98	99	00
68	PLHTRT	Plant nominal heat rate (Btu/kWh)				98	99	00
69	PLGENACL	Plant annual coal net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
70	PLGENAOL	Plant annual oil net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#3 - EGRDPLNT Plant File (continued)

Field	Name	Description	Source(s)	Data Years				
71	PLGENAGS	Plant annual gas net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
72	PLGENANC	Plant annual nuclear net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
73	PLGENAHY	Plant annual hydro net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
74	PLGENABM*	Plant annual biomass/wood net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
75	PLGENAWI	Plant annual wind net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
76	PLGENASO	Plant annual solar net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
77	PLGENAGT	Plant annual geothermal net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
78	PLGENAOF	Plant annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)	EIA-759, EIA-860B			98	99	00
79	PLGENASW	Plant annual solid waste net generation (MWh)	EIA-759, EIA-860B	96	97	98	99	00
80	PLGENATN	Plant annual total nonrenewables net generation (MWh)		96	97	98	99	00
81	PLGENATR	Plant annual total renewables net generation (MWh)		96	97	98	99	00
82	PLGENATH	Plant annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
83	PLCLPR	Plant coal generation percent (resource mix)		96	97	98	99	00
84	PLOLPR	Plant oil generation percent (resource mix)		96	97	98	99	00
85	PLGSPR	Plant gas generation percent (resource mix)		96	97	98	99	00
86	PLNCPR	Plant nuclear generation percent (resource mix)		96	97	98	99	00
87	PLHYPR	Plant hydro generation percent (resource mix)		96	97	98	99	00
88	PLBMPR*	Plant biomass/wood generation percent (resource mix)		96	97	98	99	00
89	PLWIPR	Plant wind generation percent (resource mix)		96	97	98	99	00
90	PLSOPR	Plant solar generation percent (resource mix)		96	97	98	99	00
91	PLGTPR	Plant geothermal generation percent (resource mix)		96	97	98	99	00
92	PLOFPR	Plant other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
93	PLSWPR	Plant solid waste generation percent (resource mix)		96	97			
94	PLFSPR	Plant unspecified fossil generation percent (resource mix)		96	97			
95	PLRWPR	Plant unspecified renewable generation percent (resource mix)		96	97			
96	PLTNPR	Plant total nonrenewables generation percent (resource mix)		96	97	98	99	00
97	PLTRPR	Plant total renewables generation percent (resource mix)		96	97	98	99	00
98	PLTHPR	Plant total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
99	OWNRNM01	Plant owner name (first)	EIA-860A, EIA-860B	96	97	98	99	00
100	OWNRUC01	Plant owner code (first)	EIA-860A, EIA-860B	96	97	98	99	00
101	OWNRPR01	Plant owner percent (first)	EIA-860A, updates	96	97	98	99	00
102	OWNRTY01	Plant owner type (first) (UT=Utility, NU=Nonutility)				98	99	00
103	OWNRNM02	Plant owner name (second)	EIA-860A, updates	96	97	98	99	00
104	OWNRUC02	Plant owner code (second)	EIA-860A, updates	96	97	98	99	00
105	OWNRPR02	Plant owner percent (second)	EIA-860A, updates	96	97	98	99	00
106	OWNRTY02	Plant owner type (second) (UT=Utility, NU=Nonutility)				98	99	00
107	OWNRNM03	Plant owner name (third)	EIA-860A, updates	96	97	98	99	00
108	OWNRUC03	Plant owner code (third)	EIA-860A, updates	96	97	98	99	00
109	OWNRPR03	Plant owner percent (third)	EIA-860A, updates	96	97	98	99	00
110	OWNRTY03	Plant owner type (third) (UT=Utility, NU=Nonutility)				98	99	00
111	OWNRNM04	Plant owner name (fourth)	EIA-860A, updates	96	97	98	99	00
112	OWNRUC04	Plant owner code (fourth)	EIA-860A, updates	96	97	98	99	00
113	OWNRPR04	Plant owner percent (fourth)	EIA-860A, updates	96	97	98	99	00
114	OWNRTY04	Plant owner type (fourth) (UT=Utility, NU=Nonutility)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#3 - EGRDPLNT Plant File (continued)

Field	Name	Description	Source(s)	Data Years				
115	OWNRNM05	Plant owner name (fifth)	EIA-860A, updates	96	97	98	99	00
116	OWNRUC05	Plant owner code (fifth)	EIA-860A, updates	96	97	98	99	00
117	OWNRPR05	Plant owner percent (fifth)	EIA-860A, updates	96	97	98	99	00
118	OWNRTY05	Plant owner type (fifth) (UT=Utility, NU=Nonutility)				98	99	00
119	OWNRNM06	Plant owner name (sixth)	EIA-860A, updates	96	97	98	99	00
120	OWNRUC06	Plant owner code (sixth)	EIA-860A, updates	96	97	98	99	00
121	OWNRPR06	Plant owner percent (sixth)	EIA-860A, updates	96	97	98	99	00
122	OWNRTY06	Plant owner type (sixth) (UT=Utility, NU=Nonutility)				98	99	00
123	OWNRNM07	Plant owner name (seventh)	EIA-860A, updates	96	97	98	99	00
124	OWNRUC07	Plant owner code (seventh)	EIA-860A, updates	96	97	98	99	00
125	OWNRPR07	Plant owner percent (seventh)	EIA-860A, updates	96	97	98	99	00
126	OWNRTY07	Plant owner type (seventh) (UT=Utility, NU=Nonutility)				98	99	00
127	OWNRNM08	Plant owner name (eighth)	EIA-860A, updates	96	97	98	99	00
128	OWNRUC08	Plant owner code (eighth)	EIA-860A, updates	96	97	98	99	00
129	OWNRPR08	Plant owner percent (eighth)	EIA-860A, updates	96	97	98	99	00
130	OWNRTY08	Plant owner type (eighth) (UT=Utility, NU=Nonutility)				98	99	00
131	OWNRNM09	Plant owner name (ninth)	EIA-860A, updates	96	97	98	99	00
132	OWNRUC09	Plant owner code (ninth)	EIA-860A, updates	96	97	98	99	00
133	OWNRPR09	Plant owner percent (ninth)	EIA-860A, updates	96	97	98	99	00
134	OWNRTY09	Plant owner type (ninth) (UT=Utility, NU=Nonutility)				98	99	00
135	OWNRNM10	Plant owner name (tenth)	EIA-860A, updates	96	97	98	99	00
136	OWNRUC10	Plant owner code (tenth)	EIA-860A, updates	96	97	98	99	00
137	OWNRPR10	Plant owner percent (tenth)	EIA-860A, updates	96	97	98	99	00
138	OWNRTY10	Plant owner type (tenth) (UT=Utility, NU=Nonutility)				98	99	00
139	OWNRNM11	Plant owner name (eleventh)	EIA-860A, updates	96	97	98	99	00
140	OWNRUC11	Plant owner code (eleventh)	EIA-860A, updates	96	97	98	99	00
141	OWNRPR11	Plant owner percent (eleventh)	EIA-860A, updates	96	97	98	99	00
142	OWNRTY11	Plant owner type (eleventh) (UT=Utility, NU=Nonutility)				98	99	00
143	OWNRNM12	Plant owner name (twelfth)	EIA-860A, updates	96	97	98	99	00
144	OWNRUC12	Plant owner code (twelfth)	EIA-860A, updates	96	97	98	99	00
145	OWNRPR12	Plant owner percent (twelfth)	EIA-860A, updates	96	97	98	99	00
146	OWNRTY12	Plant owner type (twelfth) (UT=Utility, NU=Nonutility)				98	99	00
147	OWNRNM13	Plant owner name (thirteenth)	EIA-860A, updates	96	97	98	99	00
148	OWNRUC13	Plant owner code (thirteenth)	EIA-860A, updates	96	97	98	99	00
149	OWNRPR13	Plant owner percent (thirteenth)	EIA-860A, updates	96	97	98	99	00
150	OWNRTY13	Plant owner type (thirteenth) (UT=Utility, NU=Nonutility)				98	99	00
151	OWNRNM14	Plant owner name (fourteenth)	EIA-860A, updates	96	97	98	99	00
152	OWNRUC14	Plant owner code (fourteenth)	EIA-860A, updates	96	97	98	99	00
153	OWNRPR14	Plant owner percent (fourteenth)	EIA-860A, updates	96	97	98	99	00
154	OWNRTY14	Plant owner type (fourteenth) (UT=Utility, NU=Nonutility)				98	99	00
155	SEQPLT	eGRID96 1996 file plant sequence number		96	97	98	99	00
156	SEQPLT97	eGRID97 1997 file plant sequence number		96	97	98	99	00
157	SEQPLT98	eGRID2000 1998 file plant sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#4 - EGRDST State File

Field	Name	Description	Source(s)	Data Years				
1	SEQST00	eGRID2002 2000 file State sequence number					99	00
2	SEQST99	eGRID2002 1999 file State sequence number					99	00
3	PSTATABB	State abbreviation	EIA-860A, EIA-860B	96	97	98	99	00
4	FIPST	FIPS State code	EIA-860A, EIA-860B	96	97	98	99	00
5	BOILCAP	State boiler capacity (MMBtu/hr)		96	97	98	99	00
6	NAMEPCAP	State generator capacity (MW)		96	97	98	99	00
7	STHTIAN*	State annual heat input (MMBtu)		96	97	98	99	00
8	STHTIOZ*	State ozone season heat input (MMBtu)		96	97	98	99	00
9	STNGENAN*	State annual net generation (MWh)		96	97	98	99	00
10	STNGENOZ*	State ozone season net generation		96	97	98	99	00
11	STNOXAN*	State annual NO_x emissions (tons)		96	97	98	99	00
12	STNOXOZ*	State ozone season NO_x emissions (tons)		96	97	98	99	00
13	STSO2AN*	State annual SO_2 emissions (tons)		96	97	98	99	00
14	STCO2AN*	State annual CO_2 emissions (tons)		96	97	98	99	00
15	STHGAN	State annual mercury emissions (lbs)				98	99	00
16	STNOXRTA	State average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
17	STNOXRTO	State average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
18	STSO2RTA	State average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
19	STCO2RTA	State average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
20	STHGRTA	State average annual mercury output emission rate (lbs/GWh)				98	99	00
21	STNOXRA	State average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
22	STNOXRO	State average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
23	STSO2RA	State average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
24	STCO2RA	State average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
25	STHGRA	State average annual mercury input emission rate (lbs/BBtu)				98	99	00
26	STCNOXRT	State coal annual NO_x output emission rate (lbs/MWh)				98	99	00
27	STONOXRT	State oil annual NO_x output emission rate (lbs/MWh)				98	99	00
28	STGNOXRT	State gas annual NO_x output emission rate (lbs/MWh)				98	99	00
29	STFSNXRT*	State fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
30	STCNXORT	State coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
31	STONXORT	State oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	STGNXORT	State gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
33	STFSNORT*	State fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
34	STCSO2RT	State coal annual SO_2 output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#4 - EGRDST State File (continued)

Field	Name	Description	Source(s)	Data Years				
35	STOSO2RT	State oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	STGSO2RT	State gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
37	STFSS2RT*	State fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
38	STCCO2RT	State coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
39	STOCO2RT	State oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	STGCO2RT	State gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
41	STFSC2RT*	State fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
42	STCHGRT	State coal annual mercury output emission rate (lbs/GWh)				98	99	00
43	STFSHGRT	State fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
44	STCNOXR	State coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
45	STONOXR	State oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	STGNOXR	State gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
47	STFSNXR*	State fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
48	STCNXOR	State coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
49	STONXOR	State oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	STGNXOR	State gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
51	STFSNOR*	State fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
52	STCSO2R	State coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
53	STOSO2R	State oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	STGSO2R	State gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
55	STFSS2R*	State fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
56	STCCO2R	State coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
57	STOCO2R	State oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	STGCO2R	State gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
59	STFSC2R*	State fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
60	STCHGR	State coal annual mercury input emission rate (lbs/BBtu)				98	99	00
61	STFSHGR	State fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
62	STGENACL	State annual coal net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#4 - EGRDST State File (continued)

Field	Name	Description	Source(s)	Data Years				
63	STGENAOL	State annual oil net generation (MWh)		96	97	98	99	00
64	STGENAGS	State annual gas net generation (MWh)		96	97	98	99	00
65	STGENANC	State annual nuclear net generation (MWh)		96	97	98	99	00
66	STGENAHY	State annual hydro net generation (MWh)		96	97	98	99	00
67	STGENABM*	State annual biomass/wood net generation (MWh)		96	97	98	99	00
68	STGENAWI	State annual wind net generation (MWh)		96	97	98	99	00
69	STGENASO	State annual solar net generation (MWh)		96	97	98	99	00
70	STGENAGT	State annual geothermal net generation (MWh)		96	97	98	99	00
71	STGENAOF	State annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
72	STGENASW	State annual solid waste net generation (MWh)		96	97	98	99	00
73	STGENATN	State annual total nonrenewables net generation (MWh)		96	97	98	99	00
74	STGENATR	State annual total renewables net generation (MWh)		96	97	98	99	00
75	STGENATH	State annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
76	STCLPR	State coal generation percent (resource mix)		96	97	98	99	00
77	STOLPR	State oil generation percent (resource mix)		96	97	98	99	00
78	STGSPR	State gas generation percent (resource mix)		96	97	98	99	00
79	STNCPR	State nuclear generation percent (resource mix)		96	97	98	99	00
80	STHYPR	State hydro generation percent (resource mix)		96	97	98	99	00
81	STBMPR*	State biomass/wood generation percent (resource mix)		96	97	98	99	00
82	STWIPR	State wind generation percent (resource mix)		96	97	98	99	00
83	STSOPR	State solar generation percent (resource mix)		96	97	98	99	00
84	STGTPR	State geothermal generation percent (resource mix)		96	97	98	99	00
85	STOFPR	State other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
86	STSWPR	State solid waste generation percent (resource mix)		96	97			
87	STTNPR	State total nonrenewables generation percent (resource mix)		96	97	98	99	00
88	STTRPR	State total renewables generation percent (resource mix)		96	97	98	99	00
89	STTHPR	State total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
90	STTYP	State inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
91	SEQST	eGRID96 1996 file State sequence number		96	97	98	99	00
92	SEQST97	eGRID97 1997 file State sequence number		96	97	98	99	00
93	SEQST98	eGRID2000 1998 file State sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#5 - EGRDEGCO Electric Generating Company File [Owner-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQEGO00	eGRID2002 2000 file owner-based EGC sequence number					99	00
2	SEQEGO99	eGRID2002 1999 file owner-based EGC sequence number					99	00
3	EGCNAME	EGC name	EIA-860A, EIA-860B, EIA-861	96	97	98	99	00
4	EGCID	EGC ID	EIA-860A, EIA-860B	96	97	98	99	00
5	OWNERTYP	Owner type	EIA-861, EIA-860B		97	98	99	00
6	CHANGE	Change? (Y or N) – If Y, go to EGRDEGCH file				98	99	00
7	USTATABB	EGC State abbreviation	EIA-861, EIA-860A	96	97	98	99	00
8	PRNAME	Parent company name		96	97	98	99	00
9	PRNUM	Parent company ID		96	97	98	99	00
10	PCANAME	Power control area name	EIA-861, FERC-714	96	97	98	99	00
11	PCAID	Power control area ID	EIA-861	96	97	98	99	00
12	NERC	NERC region acronym	EIA-861, EIA-860A	96	97	98	99	00
13	NERCNUM	NERC number associated with NERC region				98	99	00
14	NAMEPCAP	EGC capacity (MW)		96	97	98	99	00
15	EGHTIAN*	EGC annual heat input (MMBtu)		96	97	98	99	00
16	EGHTIOZ*	EGC ozone season heat input (MMBtu)		96	97	98	99	00
17	EGNGENAN*	EGC annual net generation (MWh)		96	97	98	99	00
18	EGNGENOZ*	EGC ozone season net generation (MWh)		96	97	98	99	00
19	EGNOXAN*	EGC annual NO_x emissions (tons)		96	97	98	99	00
20	EGNOXOZ*	EGC ozone season NO_x emissions (tons)		96	97	98	99	00
21	EGSO2AN*	EGC annual SO_2 emissions (tons)		96	97	98	99	00
22	EGCO2AN*	EGC annual CO_2 emissions (tons)		96	97	98	99	00
23	EGHGAN	EGC annual mercury emissions (lbs)				98	99	00
24	EGNOXRTA	EGC average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
25	EGNOXRTO	EGC average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
26	EGSO2RTA	EGC average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
27	EGCO2RTA	EGC average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
28	EGHGRTA	EGC average annual mercury output emission rate (lbs/GWh)				98	99	00
29	EGNOXRA	EGC average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
30	EGNOXRO	EGC average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
31	EGSO2RA	EGC average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
32	EGCO2RA	EGC average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
33	EGHGRA	EGC average annual mercury input emission rate (lbs/BBtu)				98	99	00
34	EGCNOXRT	EGC coal annual NO_x output emission rate (lbs/MWh)				98	99	00
35	EGONOXRT	EGC oil annual NO_x output emission rate (lbs/MWh)				98	99	00
36	EGGNOXRT	EGC gas annual NO_x output emission rate (lbs/MWh)				98	99	00
37	EGFSNXRT*	EGC fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
38	EGCNXORT	EGC coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
39	EGONXORT	EGC oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#5 - EGRDEGCO Electric Generating Company File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
40	EGGNXORT	EGC gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
41	EGFSNORT*	EGC fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
42	EGCSO2RT	EGC coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
43	EGOSO2RT	EGC oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
44	EGGSO2RT	EGC gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
45	EGFSS2RT*	EGC fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
46	EGCCO2RT	EGC coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
47	EGOCO2RT	EGC oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
48	EGGCO2RT	EGC gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
49	EGFSC2RT*	EGC fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
50	EGCHGRT	EGC coal annual mercury output emission rate (lbs/GWh)				98	99	00
51	EGFSHGRT*	EGC fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
52	EGCNOXR	EGC coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
53	EGONOXR	EGC oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
54	EGGNOXR	EGC gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
55	EGFSNXR*	EGC fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
56	EGCNXOR	EGC coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
57	EGONXOR	EGC oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
58	EGGNXOR	EGC gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
59	EGFSNOR*	EGC fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
60	EGCSO2R	EGC coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
61	EGOSO2R	EGC oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
62	EGGSO2R	EGC gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
63	EGFSS2R*	EGC fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
64	EGCCO2R	EGC coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
65	EGOCO2R	EGC oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
66	EGGCO2R	EGC gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
67	EGFSC2R	EGC fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
68	EGCHGR	EGC coal annual mercury input emission rate (lbs/BBtu)				98	99	00
69	EGFSHGR	EGC fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
70	EGGENACL	EGC annual coal net generation (MWh)		96	97	98	99	00
71	EGGENAOL	EGC annual oil net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#5 - EGRDEGCO Electric Generating Company File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
72	EGGENAGS	EGC annual gas net generation (MWh)		96	97	98	99	00
73	EGGENANC	EGC annual nuclear net generation (MWh)		96	97	98	99	00
74	EGGENAHY	EGC annual hydro net generation (MWh)		96	97	98	99	00
75	EGGENABM*	EGC annual biomass/wood net generation (MWh)		96	97	98	99	00
76	EGGENAWI	EGC annual wind net generation (MWh)		96	97	98	99	00
77	EGGENASO	EGC annual solar net generation (MWh)		96	97	98	99	00
78	EGGENAGT	EGC annual geothermal net generation (MWh)		96	97	98	99	00
79	EGGENAOF	EGC annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
80	EGGENASW	EGC annual solid waste net generation (MWh)		96	97	98	99	00
81	EGGENATN	EGC annual total nonrenewables net generation (MWh)		96	97	98	99	00
82	EGGENATR	EGC annual total renewables net generation (MWh)		96	97	98	99	00
83	EGGENATH	EGC annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
84	EGCLPR	EGC coal generation percent (resource mix)		96	97	98	99	00
85	EGOLPR	EGC oil generation percent (resource mix)		96	97	98	99	00
86	EGGSPR	EGC gas generation percent (resource mix)		96	97	98	99	00
87	EGNCPR	EGC nuclear generation percent (resource mix)		96	97	98	99	00
88	EGHYPR	EGC hydro generation percent (resource mix)		96	97	98	99	00
89	EGBMPR*	EGC biomass/wood generation percent (resource mix)		96	97	98	99	00
90	EGWIPR	EGC wind generation percent (resource mix)		96	97	98	99	00
91	EGSOPR	EGC solar generation percent (resource mix)		96	97	98	99	00
92	EGGTPR	EGC geothermal generation percent (resource mix)		96	97	98	99	00
93	EGOFPR	EGC other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
94	EGSWPR	EGC solid waste generation percent (resource mix)		96	97			
95	EGTNPR	EGC total nonrenewables generation percent (resource mix)		96	97	98	99	00
96	EGTRPR	EGC total renewables generation percent (resource mix)		96	97	98	99	00
97	EGTHPR	EGC total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
98	EGTYP	EGC inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
99	SEQEGCO	eGRID96 1996 file owner-based EGC sequence number		96	97	98	99	00
100	SEQEGO97	eGRID97 1997 file owner-based EGC sequence number		96	97	98	99	00
101	SEQEGO98	eGRID2000 1998 file owner-based EGC sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#6 - EGRDEGCL Electric Generating Company File [Location-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQEGP00	eGRID2002 2000 file location (operator)-based EGC sequence number					99	00
2	SEQEGP99	eGRID2002 1999 file location (operator)-based EGC sequence number					99	00
3	EGCNAME	EGC name	EIA-860A, EIA-860B, EIA-861	96	97	98	99	00
4	EGCID	EGC ID	EIA-860A, EIA-860B	96	97	98	99	00
5	OWNERTYP	Owner type	EIA-861, EIA-860B		97	98	99	00
6	CHANGE	Change? (Y or N) – If Y, go to EGRDEGCH file				98	99	00
7	USTATABB	EGC State abbreviation	EIA-861, EIA-860A	96	97	98	99	00
8	PRNAME	Parent company name		96	97	98	99	00
9	PRNUM	Parent company ID		96	97	98	99	00
10	PCANAME	Power control area name	EIA-861, FERC-714	96	97	98	99	00
11	PCAID	Power control area ID	EIA-861	96	97	98	99	00
12	NERC	NERC region acronym	EIA-861, EIA-860A	96	97	98	99	00
13	NERCNUM	NERC number associated with NERC region				98	99	00
14	NAMEPCAP	EGC capacity (MW)		96	97	98	99	00
15	EGHTIAN*	EGC annual heat input (MMBtu)		96	97	98	99	00
16	EGHTIOZ*	EGC ozone season heat input (MMBtu)		96	97	98	99	00
17	EGNGENAN*	EGC annual net generation (MWh)		96	97	98	99	00
18	EGNGENOZ*	EGC ozone season net generation (MWh)		96	97	98	99	00
19	EGNOXAN*	EGC annual NO_x emissions (tons)		96	97	98	99	00
20	EGNOXOZ*	EGC ozone season NO_x emissions (tons)		96	97	98	99	00
21	EGSO2AN*	EGC annual SO_2 emissions (tons)		96	97	98	99	00
22	EGCO2AN*	EGC annual CO_2 emissions (tons)		96	97	98	99	00
23	EGHGAN	EGC annual mercury emissions (lbs)				98	99	00
24	EGNOXRTA	EGC average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
25	EGNOXRTO	EGC average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
26	EGSO2RTA	EGC average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
27	EGCO2RTA	EGC average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
28	EGHGRTA	EGC average annual mercury output emission rate (lbs/GWh)				98	99	00
29	EGNOXRA	EGC average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
30	EGNOXRO	EGC average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
31	EGSO2RA	EGC average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
32	EGCO2RA	EGC average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
33	EGHGRA	EGC average annual mercury input emission rate (lbs/BBtu)				98	99	00
34	EGCNOXRT	EGC coal annual NO_x output emission rate (lbs/MWh)				98	99	00
35	EGONOXRT	EGC oil annual NO_x output emission rate (lbs/MWh)				98	99	00
36	EGGNOXRT	EGC gas annual NO_x output emission rate (lbs/MWh)				98	99	00
37	EGFSNXRT*	EGC fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
38	EGCNXORT	EGC coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
39	EGONXORT	EGC oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#6 - EGRDEGCL Electric Generating Company File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
40	EGGNXORT	EGC gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
41	EGFSNORT*	EGC fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
42	EGCSO2RT	EGC coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
43	EGOSO2RT	EGC oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
44	EGGSO2RT	EGC gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
45	EGFSS2RT*	EGC fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
46	EGCCO2RT	EGC coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
47	EGOCO2RT	EGC oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
48	EGGCO2RT	EGC gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
49	EGFSC2RT*	EGC fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
50	EGCHGRT	EGC coal annual mercury output emission rate (lbs/GWh)				98	99	00
51	EGFSHGRT*	EGC fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
52	EGCNOXR	EGC coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
53	EGONOXR	EGC oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
54	EGGNOXR	EGC gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
55	EGFSNXR*	EGC fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
56	EGCNXOR	EGC coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
57	EGONXOR	EGC oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
58	EGGNXOR	EGC gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
59	EGFSNOR*	EGC fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
60	EGCSO2R	EGC coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
61	EGOSO2R	EGC oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
62	EGGSO2R	EGC gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
63	EGFSS2R*	EGC fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
64	EGCCO2R	EGC coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
65	EGOCO2R	EGC oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
66	EGGCO2R	EGC gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
67	EGFSC2R	EGC fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
68	EGCHGR	EGC coal annual mercury input emission rate (lbs/BBtu)				98	99	00
69	EGFSHGR	EGC fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
70	EGGENACL	EGC annual coal net generation (MWh)		96	97	98	99	00
71	EGGENAOL	EGC annual oil net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#6 - EGRDEGCL Electric Generating Company File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
72	EGGENAGS	EGC annual gas net generation (MWh)		96	97	98	99	00
73	EGGENANC	EGC annual nuclear net generation (MWh)		96	97	98	99	00
74	EGGENAHY	EGC annual hydro net generation (MWh)		96	97	98	99	00
75	EGGENABM*	EGC annual biomass/wood net generation (MWh)		96	97	98	99	00
76	EGGENAWI	EGC annual wind net generation (MWh)		96	97	98	99	00
77	EGGENASO	EGC annual solar net generation (MWh)		96	97	98	99	00
78	EGGENAGT	EGC annual geothermal net generation (MWh)		96	97	98	99	00
79	EGGENAOF	EGC annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
80	EGGENASW	EGC annual solid waste net generation (MWh)		96	97	98	99	00
81	EGGENATN	EGC annual total nonrenewables net generation (MWh)		96	97	98	99	00
82	EGGENATR	EGC annual total renewables net generation (MWh)		96	97	98	99	00
83	EGGENATH	EGC annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
84	EGCLPR	EGC coal generation percent (resource mix)		96	97	98	99	00
85	EGOLPR	EGC oil generation percent (resource mix)		96	97	98	99	00
86	EGGSPR	EGC gas generation percent (resource mix)		96	97	98	99	00
87	EGNCPR	EGC nuclear generation percent (resource mix)		96	97	98	99	00
88	EGHYPR	EGC hydro generation percent (resource mix)		96	97	98	99	00
89	EGBMPR*	EGC biomass/wood generation percent (resource mix)		96	97	98	99	00
90	EGWIPR	EGC wind generation percent (resource mix)		96	97	98	99	00
91	EGSOPR	EGC solar generation percent (resource mix)		96	97	98	99	00
92	EGGTPR	EGC geothermal generation percent (resource mix)		96	97	98	99	00
93	EGOFPR	EGC other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
94	EGSWPR	EGC solid waste generation percent (resource mix)		96	97			
95	EGTNPR	EGC total nonrenewables generation percent (resource mix)		96	97	98	99	00
96	EGTRPR	EGC total renewables generation percent (resource mix)		96	97	98	99	00
97	EGTHPR	EGC total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
98	EGTYP	EGC inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
99	SEQEGCP	eGRID96 1996 file location (operator)-based EGC sequence number		96	97	98	99	00
100	SEQEGP97	eGRID97 1997 file location (operator)-based EGC sequence number		96	97	98	99	00
101	SEQEGP98	eGRID2000 1998 file location (operator)-based EGC sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#7 - EGRDPRO Parent Company File [Owner-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQPRO00	eGRID2002 2000 file owner-based parent company sequence number					99	00
2	SEQPRO99	eGRID2002 1999 file owner-based parent company sequence number					99	00
3	PRNAME	Parent company name		96	97	98	99	00
4	PRNUM	Parent company ID		96	97	98	99	00
5	CHANGE	Change? (Y or N) – if Y, go to EGRDPRCH file				98	99	00
6	PRSTATE	Parent company State			97	98	99	00
7	NAMEPCAP	Parent company capacity (MW)		96	97	98	99	00
8	PRHTIAN*	Parent company annual heat input (MMBtu)		96	97	98	99	00
9	PRHTIOZ*	Parent company ozone season heat input (MMBtu)		96	97	98	99	00
10	PRNGENAN*	Parent company annual net generation (MWh)		96	97	98	99	00
11	PRNGENOZ*	Parent company ozone season net generation (MWh)		96	97	98	99	00
12	PRNOXAN*	Parent company annual NO_x emissions (tons)		96	97	98	99	00
13	PRNOXOZ*	Parent company ozone season NO_x emissions (tons)		96	97	98	99	00
14	PRSO2AN*	Parent company annual SO_2 emissions (tons)		96	97	98	99	00
15	PRCO2AN*	Parent company annual CO_2 emissions (tons)		96	97	98	99	00
16	PRHGAN	Parent company annual mercury emissions (lbs)				98	99	00
17	PRNOXRTA	Parent company average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
18	PRNOXRTO	Parent company average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
19	PRSO2RTA	Parent company average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
20	PRCO2RTA	Parent company average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
21	PRHGRTA	Parent company average annual mercury output emission rate (lbs/GWh)				98	99	00
22	PRNOXRA	Parent company average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
23	PRNOXRO	Parent company average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
24	PRSO2RA	Parent company average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
25	PRCO2RA	Parent company average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
26	PRHGRA	Parent company average annual mercury input emission rate (lbs/BBtu)				98	99	00
27	PRCNOXRT	Parent company coal annual NO_x output emission rate (lbs/MWh)				98	99	00
28	PRONOXRT	Parent company oil annual NO_x output emission rate (lbs/MWh)				98	99	00
29	PRGNOXRT	Parent company gas annual NO_x output emission rate (lbs/MWh)				98	99	00
30	PRFSNXRT*	Parent company fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
31	PRCNXORT	Parent company coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	PRONXORT	Parent company oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
33	PRGNXORT	Parent company gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
34	PRFSNORT*	Parent company fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
35	PRCSO2RT	Parent company coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	PROSO2RT	Parent company oil annual SO_2 output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#7 - EGRDPRO Parent Company File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
37	PRGSO2RT	Parent company gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
38	PRFSS2RT*	Parent company fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
39	PRCCO2RT	Parent company coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	PROCO2RT	Parent company oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
41	PRGCO2RT	Parent company gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
42	PRFSC2RT*	Parent company fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
43	PRCHGRT	Parent company coal annual mercury output emission rate (lbs/GWh)				98	99	00
44	PRFSHGRT	Parent company fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
45	PRCNOXR	Parent company coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	PRONOXR	Parent company oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
47	PRGNOXR	Parent company gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
48	PRFSNXR*	Parent company fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
49	PRCNXOR	Parent company coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	PRONXOR	Parent company oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
51	PRGNXOR	Parent company gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
52	PRFSNOR*	Parent company fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
53	PRCSO2R	Parent company coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	PROSO2R	Parent company oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
55	PRGSO2R	Parent company gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
56	PRFSS2R*	Parent company fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
57	PRCCO2R	Parent company coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	PROCO2R	Parent company oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
59	PRGCO2R	Parent company gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
60	PRFSC2R*	Parent company fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
61	PRCHGR	Parent company coal annual mercury input emission rate (lbs/BBtu)				98	99	00
62	PRFSHGR	Parent company fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
63	PRGENACL	Parent company annual coal net generation (MWh)		96	97	98	99	00
64	PRGENAOL	Parent company annual oil net generation (MWh)		96	97	98	99	00
65	PRGENAGS	Parent company annual gas net generation (MWh)		96	97	98	99	00
66	PRGENANC	Parent company annual nuclear net generation (MWh)		96	97	98	99	00
67	PRGENAHY	Parent company annual hydro net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#7 - EGRDPRO Parent Company File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
68	PRGENABM*	Parent company annual biomass/wood net generation (MWh)		96	97	98	99	00
69	PRGENAWI	Parent company annual wind net generation (MWh)		96	97	98	99	00
70	PRGENASO	Parent company annual solar net generation (MWh)		96	97	98	99	00
71	PRGENAGT	Parent company annual geothermal net generation (MWh)		96	97	98	99	00
72	PRGENAOF	Parent company annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
73	PRGENASW	Parent company annual solid waste net generation (MWh)		96	97	98	99	00
74	PRGENATN	Parent company annual total nonrenewables net generation (MWh)		96	97	98	99	00
75	PRGENATR	Parent company annual total renewables net generation (MWh)		96	97	98	99	00
76	PRGENATH	Parent company annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
77	PRCLPR	Parent company coal generation percent (resource mix)		96	97	98	99	00
78	PROLPR	Parent company oil generation percent (resource mix)		96	97	98	99	00
79	PRGSPR	Parent company gas generation percent (resource mix)		96	97	98	99	00
80	PRNCPR	Parent company nuclear generation percent (resource mix)		96	97	98	99	00
81	PRHYPR	Parent company hydro generation percent (resource mix)		96	97	98	99	00
82	PRBMPR*	Parent company biomass/wood generation percent (resource mix)		96	97	98	99	00
83	PRWIPR	Parent company wind generation percent (resource mix)		96	97	98	99	00
84	PRSOPR	Parent company solar generation percent (resource mix)		96	97	98	99	00
85	PRGTPR	Parent company geothermal generation percent (resource mix)		96	97	98	99	00
86	PROFPR	Parent company other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
87	PRSWPR	Parent company solid waste generation percent (resource mix)		96	97			
88	PRTNPR	Parent company total nonrenewables generation percent (resource mix)		96	97	98	99	00
89	PRTRPR	Parent company total renewables generation percent (resource mix)		96	97	98	99	00
90	PRTHPR	Parent company total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
91	PRTYP	Parent company inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
92	SEQHC	eGRID96 1996 file owner-based holding company sequence number		96	97	98	99	00
93	SEQPRO97	eGRID97 1997 file owner-based parent company sequence number		96	97	98	99	00
94	SEQPRO98	eGRID2000 1998 file owner-based parent company sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#8 - EGRDPRL Parent Company File [Location-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQPRP00	eGRID2002 2000 file location (operator)-based parent company sequence number					99	00
2	SEQPRP99	eGRID2002 1999 file location (operator)-based parent company sequence number					99	00
3	PRNAME	Parent company name			97	98	99	00
4	PRNUM	Parent company ID			97	98	99	00
5	CHANGE	Change? (Y or N) – if Y, go to EGRDPRCH file				98	99	00
6	PRSTATE	Parent company State			97	98	99	00
7	NAMEPCAP	Parent company capacity (MW)			97	98	99	00
8	PRHTIAN*	Parent company annual heat input (MMBtu)			97	98	99	00
9	PRHTIOZ*	Parent company ozone season heat input (MMBtu)			97	98	99	00
10	PRNGENAN*	Parent company annual net generation (MWh)			97	98	99	00
11	PRNGENOZ*	Parent company ozone season net generation (MWh)			97	98	99	00
12	PRNOXAN*	Parent company annual NO_x emissions (tons)			97	98	99	00
13	PRNOXOZ*	Parent company ozone season NO_x emissions (tons)			97	98	99	00
14	PRSO2AN*	Parent company annual SO_2 emissions (tons)			97	98	99	00
15	PRCO2AN*	Parent company annual CO_2 emissions (tons)			97	98	99	00
16	PRHGAN	Parent company annual mercury emissions (lbs)				98	99	00
17	PRNOXRTA	Parent company average annual NO_x output emission rate (lbs/MWh)			97	98	99	00
18	PRNOXRTO	Parent company average ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
19	PRSO2RTA	Parent company average annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
20	PRCO2RTA	Parent company average annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
21	PRHGRTA	Parent company average annual mercury output emission rate (lbs/GWh)				98	99	00
22	PRNOXRA	Parent company average annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
23	PRNOXRO	Parent company average ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
24	PRSO2RA	Parent company average annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
25	PRCO2RA	Parent company average annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
26	PRHGRA	Parent company average annual mercury input emission rate (lbs/BBtu)				98	99	00
27	PRCNOXRT	Parent company coal annual NO_x output emission rate (lbs/MWh)				98	99	00
28	PRONOXRT	Parent company oil annual NO_x output emission rate (lbs/MWh)				98	99	00
29	PRGNOXRT	Parent company gas annual NO_x output emission rate (lbs/MWh)				98	99	00
30	PRFSNXRT*	Parent company fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
31	PRCNXORT	Parent company coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	PRONXORT	Parent company oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
33	PRGNXORT	Parent company gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
34	PRFSNORT*	Parent company fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
35	PRCSO2RT	Parent company coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	PROSO2RT	Parent company oil annual SO_2 output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#8 - EGRDPRL Parent Company File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
37	PRGSO2RT	Parent company gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
38	PRFSS2RT*	Parent company fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
39	PRCCO2RT	Parent company coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	PROCO2RT	Parent company oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
41	PRGCO2RT	Parent company gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
42	PRFSC2RT*	Parent company fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
43	PRCHGRT	Parent company coal annual mercury output emission rate (lbs/GWh)				98	99	00
44	PRFSHGRT	Parent company fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
45	PRCNOXR	Parent company coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	PRONOXR	Parent company oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
47	PRGNOXR	Parent company gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
48	PRFSNXR*	Parent company fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
49	PRCNXOR	Parent company coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	PRONXOR	Parent company oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
51	PRGNXOR	Parent company gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
52	PRFSNOR*	Parent company fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
53	PRCSO2R	Parent company coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	PROSO2R	Parent company oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
55	PRGSO2R	Parent company gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
56	PRFSS2R*	Parent company fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
57	PRCCO2R	Parent company coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	PROCO2R	Parent company oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
59	PRGCO2R	Parent company gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
60	PRFSC2R*	Parent company fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
61	PRCHGR	Parent company coal annual mercury input emission rate (lbs/BBtu)				98	99	00
62	PRFSHGR	Parent company fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
63	PRGENACL	Parent company annual coal net generation (MWh)			97	98	99	00
64	PRGENAOL	Parent company annual oil net generation (MWh)			97	98	99	00
65	PRGENAGS	Parent company annual gas net generation (MWh)			97	98	99	00
66	PRGENANC	Parent company annual nuclear net generation (MWh)			97	98	99	00
67	PRGENAHY	Parent company annual hydro net generation (MWh)			97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#8 - EGRDPRL Parent Company File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
68	PRGENABM*	Parent company annual biomass/wood net generation (MWh)			97	98	99	00
69	PRGENAWI	Parent company annual wind net generation (MWh)			97	98	99	00
70	PRGENASO	Parent company annual solar net generation (MWh)			97	98	99	00
71	PRGENAGT	Parent company annual geothermal net generation (MWh)			97	98	99	00
72	PRGENAOF	Parent company annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
73	PRGENASW	Parent company annual solid waste net generation (MWh)			97	98	99	00
74	PRGENATN	Parent company annual total nonrenewables net generation (MWh)			97	98	99	00
75	PRGENATR	Parent company annual total renewables net generation (MWh)			97	98	99	00
76	PRGENATH	Parent company annual total nonhydro renewables net generation (MWh)			97	98	99	00
77	PRCLPR	Parent company coal generation percent (resource mix)			97	98	99	00
78	PROLPR	Parent company oil generation percent (resource mix)			97	98	99	00
79	PRGSPR	Parent company gas generation percent (resource mix)			97	98	99	00
80	PRNCPR	Parent company nuclear generation percent (resource mix)			97	98	99	00
81	PRHYPR	Parent company hydro generation percent (resource mix)			97	98	99	00
82	PRBMPR*	Parent company biomass/wood generation percent (resource mix)			97	98	99	00
83	PRWIPR	Parent company wind generation percent (resource mix)			97	98	99	00
84	PRSOPR	Parent company solar generation percent (resource mix)			97	98	99	00
85	PRGTPR	Parent company geothermal generation percent (resource mix)			97	98	99	00
86	PROFPR	Parent company other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
87	PRSWPR	Parent company solid waste generation percent (resource mix)			97			
88	PRTNPR	Parent company total nonrenewables generation percent (resource mix)			97	98	99	00
89	PRTRPR	Parent company total renewables generation percent (resource mix)			97	98	99	00
90	PRTHPR	Parent company total nonhydro renewables generation percent (resource mix)			97	98	99	00
91	PRTYP	Parent company inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)			97	98	99	00
92	SEQPRP97	eGRID97 1997 file location (operator)-based parent company sequence number		96	97	98	99	00
93	SEQPRP98	eGRID2000 1998 file location (operator)-based parent company sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#9 - EGRDPCAO Power Control Area File [Owner-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQPCO00	eGRID2002 2000 file owner-based power control area sequence number					99	00
2	SEQPCO99	eGRID2002 1999 file owner-based power control area sequence number					99	00
3	PCANAME	Power control area name	EIA-861, FERC-714	96	97	98	99	00
4	PCAID	Power control area ID	EIA-861, FERC-714	96	97	98	99	00
5	NERC	NERC region acronym	EIA-861, EIA-860A	96	97	98	99	00
6	NERCNUM	NERC number associated with NERC region				98	99	00
7	CHANGE	Change? (Y or N) – If Y, go to EGRDPCCH file				98	99	00
8	SUPPRER	Nonutility PCA emission rate suppression flag (1=yes; 0=no)		96	97			
9	SUPPRRM	Nonutility PCA resource mix suppression flag (1=yes; 0=no)		96	97			
10	NAMEPCAP	PCA capacity (MW)		96	97	98	99	00
11	PCHTIAN*	PCA annual heat input (MMBtu)		96	97	98	99	00
12	PCHTIOZ*	PCA ozone season heat input (MMBtu)		96	97	98	99	00
13	PCNGENAN	PCA annual net generation (MWh)		96	97	98	99	00
14	PCNGENOZ	PCA ozone season net generation (MWh)		96	97	98	99	00
15	PCNOXAN*	PCA annual NO_x emissions (tons)		96	97	98	99	00
16	PCNOXOZ*	PCA ozone season NO_x emissions (tons)		96	97	98	99	00
17	PCSO2AN*	PCA annual SO_2 emissions (tons)		96	97	98	99	00
18	PCCO2AN*	PCA annual CO_2 emissions (tons)		96	97	98	99	00
19	PCHGAN	PCA annual mercury emissions (lbs)				98	99	00
20	PCNOXRTA	PCA average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
21	PCNOXRTO	PCA average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
22	PCSO2RTA	PCA average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
23	PCCO2RTA	PCA average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
24	PCHGRTA	PCA average annual mercury output emission rate (lbs/GWh)				98	99	00
25	PCNOXRA	PCA average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
26	PCNOXRO	PCA average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
27	PCSO2RA	PCA average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
28	PCCO2RA	PCA average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
29	PCHGRA	PCA average annual mercury input emission rate (lbs/BBtu)				98	99	00
30	PCCNOXRT	PCA coal annual NO_x output emission rate (lbs/MWh)				98	99	00
31	PCONOXRT	PCA oil annual NO_x output emission rate (lbs/MWh)				98	99	00
32	PCGNOXRT	PCA gas annual NO_x output emission rate (lbs/MWh)				98	99	00
33	PCFSNXRT*	PCA fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
34	PCCNXORT	PCA coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
35	PCONXORT	PCA oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
36	PCGNXORT	PCA gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#9 - EGRDPCAO Power Control Area File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
37	PCFSNORT*	PCA fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
38	PCCSO2RT	PCA coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
39	PCOSO2RT	PCA oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
40	PCGSO2RT	PCA gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
41	PCFSS2RT*	PCA fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
42	PCCCO2RT	PCA coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
43	PCOCO2RT	PCA oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
44	PCGCO2RT	PCA gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
45	PCFSC2RT*	PCA fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
46	PCCHGRT	PCA coal annual mercury output emission rate (lbs/GWh)				98	99	00
47	PCFSHGRT	PCA fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
48	PCCNOXR	PCA coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
49	PCONOXR	PCA oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
50	PCGNOXR	PCA gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
51	PCFSNXR*	PCA fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
52	PCCNXOR	PCA coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
53	PCONXOR	PCA oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
54	PCGNXOR	PCA gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
55	PCFSNOR*	PCA fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
56	PCCSO2R	PCA coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
57	PCOSO2R	PCA oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
58	PCGSO2R	PCA gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
59	PCFSS2R*	PCA fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
60	PCCCO2R	PCA coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
61	PCOCO2R	PCA oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
62	PCGCO2R	PCA gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
63	PCFSC2R*	PCA fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
64	PCCHGR	PCA coal annual mercury input emission rate (lbs/BBtu)				98	99	00
65	PCFSHGR	PCA fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
66	PCGENACL	PCA annual coal net generation (MWh)		96	97	98	99	00
67	PCGENAOL	PCA annual oil net generation (MWh)		96	97	98	99	00
68	PCGENAGS	PCA annual gas net generation (MWh)		96	97	98	99	00
69	PCGENANC	PCA annual nuclear net generation (MWh)		96	97	98	99	00
70	PCGENAHY	PCA annual hydro net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#9 - EGRDPCAO Power Control Area File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
71	PCGENABM*	PCA annual biomass/wood net generation (MWh)		96	97	98	99	00
72	PCGENAWI	PCA annual wind net generation (MWh)		96	97	98	99	00
73	PCGENASO	PCA annual solar net generation (MWh)		96	97	98	99	00
74	PCGENAGT	PCA annual geothermal net generation (MWh)		96	97	98	99	00
75	PCGENAOF	PCA annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
76	PCGENASW	PCA annual solid waste net generation (MWh)		96	97	98	99	00
77	PCGENAFS	PCA annual unspecified fossil net generation (MWh)		96	97			
78	PCGENARW	PCA annual unspecified renewable net generation (MWh)		96	97			
79	PCGENATN	PCA annual total nonrenewables net generation (MWh)		96	97	98	99	00
80	PCGENATR	PCA annual total renewables net generation (MWh)		96	97	98	99	00
81	PCGENATH	PCA annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
82	PCCLPR	PCA coal generation percent (resource mix)		96	97	98	99	00
83	PCOLPR	PCA oil generation percent (resource mix)		96	97	98	99	00
84	PCGSPR	PCA gas generation percent (resource mix)		96	97	98	99	00
85	PCNCPR	PCA nuclear generation percent (resource mix)		96	97	98	99	00
86	PCHYPR	PCA hydro generation percent (resource mix)		96	97	98	99	00
87	PCBMPR*	PCA biomass/wood generation percent (resource mix)		96	97	98	99	00
88	PCWIPR	PCA wind generation percent (resource mix)		96	97	98	99	00
89	PCSOPR	PCA solar generation percent (resource mix)		96	97	98	99	00
90	PCGTPR	PCA geothermal generation percent (resource mix)		96	97	98	99	00
91	PCOFPR	PCA other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
92	PCSWPR	PCA solid waste generation percent (resource mix)		96	97			
93	PCFSPR	PCA unspecified fossil generation percent (resource mix)		96	97			
94	PCRWPR	PCA unspecified renewable generation percent (resource mix)		96	97			
95	PCTNPR	PCA total nonrenewables generation percent (resource mix)		96	97	98	99	00
96	PCTRPR	PCA total renewables generation percent (resource mix)		96	97	98	99	00
97	PCTHPR	PCA total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
98	PCTYP	PCA inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
99	SEQPCAO	eGRID96 1996 file owner-based power control area sequence number		96	97	98	99	00
100	SEQPCO97	eGRID97 1997 file owner-based power control area sequence number		96	97	98	99	00
101	SEQPCO98	eGRID2000 1998 file owner-based power control area sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQPCP00	eGRID2002 2000 file location (operator)-based power control area sequence number					99	00
2	SEQPCP99	eGRID2002 1999 file location (operator)-based power control area sequence number					99	00
3	PCANAME	Power control area name	EIA-861, FERC-714	96	97	98	99	00
4	PCAID	Power control area ID	EIA-861, FERC-714	96	97	98	99	00
5	NERC	NERC region acronym	EIA-861, EIA-860A	96	97	98	99	00
6	NERCNUM	NERC number associated with NERC region				98	99	00
7	CHANGE	Change? (Y or N) – If Y, go to EGRDPCCH file				98	99	00
8	SUPPRER	Nonutility PCA emission rate suppression flag (1=yes; 0=no)		96	97			
9	SUPPRRM	Nonutility PCA resource mix suppression flag (1=yes; 0=no)		96	97			
10	NAMEPCAP	PCA capacity (MW)		96	97	98	99	00
11	PCHTIAN*	PCA annual heat input (MMBtu)		96	97	98	99	00
12	PCHTIOZ*	PCA ozone season heat input (MMBtu)		96	97	98	99	00
13	PCNGENAN	PCA annual net generation (MWh)		96	97	98	99	00
14	PCNGENOZ	PCA ozone season net generation (MWh)		96	97	98	99	00
15	PCNOXAN*	PCA annual NO_x emissions (tons)		96	97	98	99	00
16	PCNOXOZ*	PCA ozone season NO_x emissions (tons)		96	97	98	99	00
17	PCSO2AN*	PCA annual SO_2 emissions (tons)		96	97	98	99	00
18	PCCO2AN*	PCA annual CO_2 emissions (tons)		96	97	98	99	00
19	PCHGAN	PCA annual mercury emissions (lbs)				98	99	00
20	PCNOXRTA	PCA average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
21	PCNOXRTO	PCA average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
22	PCSO2RTA	PCA average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
23	PCCO2RTA	PCA average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
24	PCHGRTA	PCA average annual mercury output emission rate (lbs/GWh)				98	99	00
25	PCNOXRA	PCA average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
26	PCNOXRO	PCA average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
27	PCSO2RA	PCA average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
28	PCCO2RA	PCA average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
29	PCHGRA	PCA average annual mercury input emission rate (lbs/BBtu)				98	99	00
30	PCCNOXRT	PCA coal annual NO_x output emission rate (lbs/MWh)				98	99	00
31	PCONOXRT	PCA oil annual NO_x output emission rate (lbs/MWh)				98	99	00
32	PCGNOXRT	PCA gas annual NO_x output emission rate (lbs/MWh)				98	99	00
33	PCFSNXRT*	PCA fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
34	PCCNXORT	PCA coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
35	PCONXORT	PCA oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
36	PCGNXORT	PCA gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
37	PCFSNORT*	PCA fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
38	PCCSO2RT	PCA coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
39	PCOSO2RT	PCA oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
40	PCGSO2RT	PCA gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
41	PCFSS2RT*	PCA fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
42	PCCCO2RT	PCA coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
43	PCOCO2RT	PCA oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
44	PCGCO2RT	PCA gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
45	PCFSC2RT*	PCA fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
46	PCCHGRT	PCA coal annual mercury output emission rate (lbs/GWh)				98	99	00
47	PCFSHGRT	PCA fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
48	PCCNOXR	PCA coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
49	PCONOXR	PCA oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
50	PCGNOXR	PCA gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
51	PCFSNXR*	PCA fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
52	PCCNXOR	PCA coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
53	PCONXOR	PCA oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
54	PCGNXOR	PCA gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
55	PCFSNOR*	PCA fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
56	PCCSO2R	PCA coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
57	PCOSO2R	PCA oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
58	PCGSO2R	PCA gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
59	PCFSS2R*	PCA fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
60	PCCCO2R	PCA coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
61	PCOCO2R	PCA oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
62	PCGCO2R	PCA gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
63	PCFSC2R*	PCA fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
64	PCCHGR	PCA coal annual mercury input emission rate (lbs/BBtu)				98	99	00
65	PCFSHGR	PCA fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
66	PCGENACL	PCA annual coal net generation (MWh)		96	97	98	99	00
67	PCGENAOL	PCA annual oil net generation (MWh)		96	97	98	99	00
68	PCGENAGS	PCA annual gas net generation (MWh)		96	97	98	99	00
69	PCGENANC	PCA annual nuclear net generation (MWh)		96	97	98	99	00
70	PCGENAHY	PCA annual hydro net generation (MWh)		96	97	98	99	00
71	PCGENABM*	PCA annual biomass/wood net generation (MWh)		96	97	98	99	00
72	PCGENAWI	PCA annual wind net generation (MWh)		96	97	98	99	00
73	PCGENASO	PCA annual solar net generation (MWh)		96	97	98	99	00
74	PCGENAGT	PCA annual geothermal net generation (MWh)		96	97	98	99	00
75	PCGENAOF	PCA annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
76	PCGENASW	PCA annual solid waste net generation (MWh)		96	97	98	99	00
77	PCGENAFS	PCA annual unspecified fossil net generation (MWh)		96	97			
78	PCGENARW	PCA annual unspecified renewable net generation (MWh)		96	97			
79	PCGENATN	PCA annual total nonrenewables net generation (MWh)		96	97	98	99	00
80	PCGENATR	PCA annual total renewables net generation (MWh)		96	97	98	99	00
81	PCGENATH	PCA annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
82	PCCLPR	PCA coal generation percent (resource mix)		96	97	98	99	00
83	PCOLPR	PCA oil generation percent (resource mix)		96	97	98	99	00
84	PCGSPR	PCA gas generation percent (resource mix)		96	97	98	99	00
85	PCNCPR	PCA nuclear generation percent (resource mix)		96	97	98	99	00
86	PCHYPR	PCA hydro generation percent (resource mix)		96	97	98	99	00
87	PCBMPR*	PCA biomass/wood generation percent (resource mix)		96	97	98	99	00
88	PCWIPR	PCA wind generation percent (resource mix)		96	97	98	99	00
89	PCSOPR	PCA solar generation percent (resource mix)		96	97	98	99	00
90	PCGTPR	PCA geothermal generation percent (resource mix)		96	97	98	99	00
91	PCOFPR	PCA other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
92	PCSWPR	PCA solid waste generation percent (resource mix)		96	97			
93	PCFSPR	PCA unspecified fossil generation percent (resource mix)		96	97			
94	PCRWPR	PCA unspecified renewable generation percent (resource mix)		96	97			
95	PCTNPR	PCA total nonrenewables generation percent (resource mix)		96	97	98	99	00
96	PCTRPR	PCA total renewables generation percent (resource mix)		96	97	98	99	00
97	PCTHPR	PCA total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
98	NPCMW	PCA nonutility aggregated capacity (MW)		96	97			
99	NPCHTI	PCA nonutility aggregated annual heat input (MMBtu)		96	97			
100	NPCHTIO	PCA nonutility aggregated ozone season heat input (MMBtu)		96	97			
101	NPCNOX	PCA nonutility aggregated annual NO_x emissions (tons)		96	97			
102	NPCNOXO	PCA nonutility aggregated ozone season NO_x emissions (tons)		96	97			

Table 1 (continued)
eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
103	NPCSO2	PCA nonutility aggregated annual SO_2 emissions (tons)		96	97			
104	NPCCO2	PCA nonutility aggregated annual CO_2 emissions (tons)		96	97			
105	NPCNRTA	PCA nonutility aggregated average annual NO_x rate (lbs/MWh)		96	97			
106	NPCNRTO	PCA nonutility aggregated average ozone season NO_x rate (lbs/MWh)		96	97			
107	NPCSRTA	PCA nonutility aggregated average annual SO_2 rate (lbs/MWh)		96	97			
108	NPCCRTA	PCA nonutility aggregated average annual CO_2 rate (lbs/MWh)		96	97			
109	NPCNRA	PCA nonutility aggregated average annual NO_x rate (lbs/MMBtu)		96	97			
110	NPCNRO	PCA nonutility aggregated average ozone season NO_x rate (lbs/MMBtu)		96	97			
111	NPCSRA	PCA nonutility aggregated average annual SO_2 rate (lbs/MMBtu)		96	97			
112	NPCCRA	PCA nonutility aggregated average annual CO_2 rate (lbs/MMBtu)		96	97			
113	NPCNGEN	PCA total nonutility aggregated annual net generation (MWh)		96	97			
114	NPCNGENO	PCA nonutility aggregated ozone season net generation (MWh)		96	97			
115	NPCGENFS	PCA nonutility aggregated annual unspecified fossil net generation (MWh)		96	97			
116	NPCGENHY	PCA nonutility aggregated annual unspecified hydro net generation (MWh)		96	97			
117	NPCGENRW	PCA nonutility aggregated annual unspecified renewable net generation (MWh)		96	97			
118	NPCFSPR	PCA nonutility aggregated unspecified fossil generation percent (resource mix)		96	97			
119	NPCHYPR	PCA nonutility aggregated unspecified hydro generation percent (resource mix)		96	97			
120	NPCRWPR	PCA nonutility aggregated unspecified renewable generation percent (resource mix)		96	97			
121	PCTYP	PCA inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
122	SEQPCAP	eGRID96 1996 file location (operator)-based power control area sequence number		96	97	98	99	00
123	SEQPCP97	eGRID97 1997 file location (operator)-based power control area sequence number		96	97	98	99	00
124	SEQPCP98	eGRID2000 1998 file location (operator)-based power control area sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#11 - EGRDSRO Subregion File [Owner-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQSRO00	eGRID2002 2000 file owner-based eGRID subregion sequence number					99	00
2	SEQSRO99	eGRID2002 1999 file owner-based eGRID subregion sequence number					99	00
3	SRNAME	eGRID subregion name				98	99	00
4	SUBRGN	eGRID subregion acronym				98	99	00
5	IPMEQUIV	IPM subregion acronym equivalent to the eGRID subregion acronym				98	99	99
6	NERC	NERC region acronym	EIA-861, EIA-860A			98	99	00
7	NAMEPCAP	eGRID subregion capacity (MW)				98	99	00
8	SRHTIAN	eGRID subregion annual heat input (MMBtu)				98	99	00
9	SRHTIOZ	eGRID subregion ozone season heat input (MMBtu)				98	99	00
10	SRNGENAN	eGRID subregion annual net generation (MWh)				98	99	00
11	SRNGENOZ	eGRID subregion ozone season net generation (MWh)				98	99	00
12	SRNOXAN	eGRID subregion annual NO_x emissions (tons)				98	99	00
13	SRNOXOZ	eGRID subregion ozone season NO_x emissions (tons)				98	99	00
14	SRSO2AN	eGRID subregion annual SO_2 emissions (tons)				98	99	00
15	SRCO2AN	eGRID subregion annual CO_2 emissions (tons)				98	99	00
16	SRHGAN	eGRID subregion annual mercury emissions (lbs)				98	99	00
17	SRNOXRTA	eGRID subregion average annual NO_x output emission rate (lbs/MWh)				98	99	00
18	SRNOXRTO	eGRID subregion average ozone season NO_x output emission rate (lbs/MWh)				98	99	00
19	SRSO2RTA	eGRID subregion average annual SO_2 output emission rate (lbs/MWh)				98	99	00
20	SRCO2RTA	eGRID subregion average annual CO_2 output emission rate (lbs/MWh)				98	99	00
21	SRHGRTA	eGRID subregion average annual mercury output emission rate (lbs/GWh)				98	99	00
22	SRNOXRA	eGRID subregion average annual NO_x input emission rate (lbs/MMBtu)				98	99	00
23	SRNOXRO	eGRID subregion average ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
24	SRSO2RA	eGRID subregion average annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
25	SRCO2RA	eGRID subregion average annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
26	SRHGRA	eGRID subregion average annual mercury input emission rate (lbs/BBtu)				98	99	00
27	SRCNOXRT	eGRID subregion coal annual NO_x output emission rate (lbs/MWh)				98	99	00
28	SRONOXRT	eGRID subregion oil annual NO_x output emission rate (lbs/MWh)				98	99	00
29	SRGNOXRT	eGRID subregion gas annual NO_x output emission rate (lbs/MWh)				98	99	00
30	SRFSNXRT	eGRID subregion fossil fuel annual NO_x output emission rate (lbs/MWh)				98	99	00
31	SRCNXORT	eGRID subregion coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	SRONXORT	eGRID subregion oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
33	SRGNXORT	eGRID subregion gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
34	SRFSNORT	eGRID subregion fossil fuel ozone season NO_x output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#11 - EGRDSRO Subregion File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
35	SRCSO2RT	eGRID subregion coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	SROSO2RT	eGRID subregion oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
37	SRGSO2RT	eGRID subregion gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
38	SRFSS2RT	eGRID subregion fossil fuel annual SO_2 output emission rate (lbs/MWh)				98	99	00
39	SRCCO2RT	eGRID subregion coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	SROCO2RT	eGRID subregion oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
41	SRGCO2RT	eGRID subregion gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
42	SRFSC2RT	eGRID subregion fossil fuel annual CO_2 output emission rate (lbs/MWh)				98	99	00
43	SRCHGRT	eGRID subregion coal annual mercury output emission rate (lbs/GWh)				98	99	00
44	SRFSHGRT	eGRID subregion fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
45	SRCNOXR	eGRID subregion coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	SRONOXR	eGRID subregion oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
47	SRGNOXR	eGRID subregion gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
48	SRFSNXR	eGRID subregion fossil fuel annual NO_x input emission rate (lbs/MMBtu)				98	99	00
49	SRCNXOR	eGRID subregion coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	SRONXOR	eGRID subregion oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
51	SRGNXOR	eGRID subregion gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
52	SRFSNOR	eGRID subregion fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
53	SRCSO2R	eGRID subregion coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	SROSO2R	eGRID subregion oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
55	SRGSO2R	eGRID subregion gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
56	SRFSS2R	eGRID subregion fossil fuel annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
57	SRCCO2R	eGRID subregion coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	SROCO2R	eGRID subregion oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
59	SRGCO2R	eGRID subregion gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
60	SRFSC2R	eGRID subregion fossil fuel annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
61	SRCHGR	eGRID subregion coal annual mercury input emission rate (lbs/BBtu)				98	99	00
62	SRFSHGR	eGRID subregion fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
63	SRGENACL	eGRID subregion annual coal net generation (MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#11 - EGRDSRO Subregion File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
64	SRGENAOL	eGRID subregion annual oil net generation (MWh)				98	99	00
65	SRGENAGS	eGRID subregion annual gas net generation (MWh)				98	99	00
66	SRGENANC	eGRID subregion annual nuclear net generation (MWh)				98	99	00
67	SRGENAHY	eGRID subregion annual hydro net generation (MWh)				98	99	00
68	SRGENABM	eGRID subregion annual biomass/wood net generation (MWh)				98	99	00
69	SRGENAWI	eGRID subregion annual wind net generation (MWh)				98	99	00
70	SRGENASO	eGRID subregion annual solar net generation (MWh)				98	99	00
71	SRGENAGT	eGRID subregion annual geothermal net generation (MWh)				98	99	00
72	SRGENAOF	eGRID subregion annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
73	SRGENASW	eGRID subregion annual solid waste net generation (MWh)				98	99	00
74	SRGENATN	eGRID subregion annual total nonrenewables net generation (MWh)				98	99	00
75	SRGENATR	eGRID subregion annual total renewables net generation (MWh)				98	99	00
76	SRGENATH	eGRID subregion annual total nonhydro renewables net generation (MWh)				98	99	00
77	SRCLPR	eGRID subregion coal generation percent (resource mix)				98	99	00
78	SROLPR	eGRID subregion oil generation percent (resource mix)				98	99	00
79	SRGSPR	eGRID subregion gas generation percent (resource mix)				98	99	00
80	SRNCPR	eGRID subregion nuclear generation percent (resource mix)				98	99	00
81	SRHYPR	eGRID subregion hydro generation percent (resource mix)				98	99	00
82	SRBMPR	eGRID subregion biomass/wood generation percent (resource mix)				98	99	00
83	SRWIPR	eGRID subregion wind generation percent (resource mix)				98	99	00
84	SRSOPR	eGRID subregion solar generation percent (resource mix)				98	99	00
85	SRGTPR	eGRID subregion geothermal generation percent (resource mix)				98	99	00
86	SROFPR	eGRID subregion other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
87	SRTNPR	eGRID subregion total nonrenewables generation percent (resource mix)				98	99	00
88	SRTRPR	eGRID subregion total renewables generation percent (resource mix)				98	99	00
89	SRTHPR	eGRID subregion total nonhydro renewables generation percent (resource mix)				98	99	00
90	SRTYP	eGRID subregion inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)				98	99	00
91	SEQSRO98	eGRID2000 1998 file owner-based eGRID subregion sequence number				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#12 - EGRDSRL Subregion File [Location-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQSRP00	eGRID2002 2000 file location (operator)-based eGRID subregion sequence number					99	00
2	SEQSRP99	eGRID2002 1999 file location (operator)-based eGRID subregion sequence number					99	00
3	SRNAME	eGRID subregion name				98	99	00
4	SUBRGN	eGRID subregion acronym				98	99	00
5	IPMEQUIV	IPM subregion acronym equivalent to the eGRID subregion acronym				98	99	99
6	NERC	NERC region acronym	EIA-861, EIA-860A			98	99	00
7	NAMEPCAP	eGRID subregion capacity (MW)				98	99	00
8	SRHTIAN	eGRID subregion annual heat input (MMBtu)				98	99	00
9	SRHTIOZ	eGRID subregion ozone season heat input (MMBtu)				98	99	00
10	SRNGENAN	eGRID subregion annual net generation (MWh)				98	99	00
11	SRNGENOZ	eGRID subregion ozone season net generation (MWh)				98	99	00
12	SRNOXAN	eGRID subregion annual NO_x emissions (tons)				98	99	00
13	SRNOXOZ	eGRID subregion ozone season NO_x emissions (tons)				98	99	00
14	SRSO2AN	eGRID subregion annual SO_2 emissions (tons)				98	99	00
15	SRCO2AN	eGRID subregion annual CO_2 emissions (tons)				98	99	00
16	SRHGAN	eGRID subregion annual mercury emissions (lbs)				98	99	00
17	SRNOXRTA	eGRID subregion average annual NO_x output emission rate (lbs/MWh)				98	99	00
18	SRNOXRTO	eGRID subregion average ozone season NO_x output emission rate (lbs/MWh)				98	99	00
19	SRSO2RTA	eGRID subregion average annual SO_2 output emission rate (lbs/MWh)				98	99	00
20	SRCO2RTA	eGRID subregion average annual CO_2 output emission rate (lbs/MWh)				98	99	00
21	SRHGRTA	eGRID subregion average annual mercury output emission rate (lbs/GWh)				98	99	00
22	SRNOXRA	eGRID subregion average annual NO_x input emission rate (lbs/MMBtu)				98	99	00
23	SRNOXRO	eGRID subregion average ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
24	SRSO2RA	eGRID subregion average annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
25	SRCO2RA	eGRID subregion average annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
26	SRHGRA	eGRID subregion average annual mercury input emission rate (lbs/BBtu)				98	99	00
27	SRCNOXRT	eGRID subregion coal annual NO_x output emission rate (lbs/MWh)				98	99	00
28	SRONOXRT	eGRID subregion oil annual NO_x output emission rate (lbs/MWh)				98	99	00
29	SRGNOXRT	eGRID subregion gas annual NO_x output emission rate (lbs/MWh)				98	99	00
30	SRFSNXRT	eGRID subregion fossil fuel annual NO_x output emission rate (lbs/MWh)				98	99	00
31	SRCNXORT	eGRID subregion coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	SRONXORT	eGRID subregion oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
33	SRGNXORT	eGRID subregion gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
34	SRFSNORT	eGRID subregion fossil fuel ozone season NO_x output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#12 - EGRDSRL Subregion File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
35	SRCSO2RT	eGRID subregion coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	SROSO2RT	eGRID subregion oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
37	SRGSO2RT	eGRID subregion gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
38	SRFSS2RT	eGRID subregion fossil fuel annual SO_2 output emission rate (lbs/MWh)				98	99	00
39	SRCCO2RT	eGRID subregion coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	SROCO2RT	eGRID subregion oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
41	SRGCO2RT	eGRID subregion gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
42	SRFSC2RT	eGRID subregion fossil fuel annual CO_2 output emission rate (lbs/MWh)				98	99	00
43	SRCHGRT	eGRID subregion coal annual mercury output emission rate (lbs/GWh)				98	99	00
44	SRFSHGRT	eGRID subregion fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
45	SRCNOXR	eGRID subregion coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	SRONOXR	eGRID subregion oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
47	SRGNOXR	eGRID subregion gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
48	SRFSNXR	eGRID subregion fossil fuel annual NO_x input emission rate (lbs/MMBtu)				98	99	00
49	SRCNXOR	eGRID subregion coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	SRONXOR	eGRID subregion oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
51	SRGNXOR	eGRID subregion gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
52	SRFSNOR	eGRID subregion fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
53	SRCSO2R	eGRID subregion coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	SROSO2R	eGRID subregion oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
55	SRGSO2R	eGRID subregion gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
56	SRFSS2R	eGRID subregion fossil fuel annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
57	SRCCO2R	eGRID subregion coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	SROCO2R	eGRID subregion oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
59	SRGCO2R	eGRID subregion gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
60	SRFSC2R	eGRID subregion fossil fuel annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
61	SRCHGR	eGRID subregion coal annual mercury input emission rate (lbs/BBtu)				98	99	00
62	SRFSHGR	eGRID subregion fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
63	SRGENACL	eGRID subregion annual coal net generation (MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#12 - EGRDSRL Subregion File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
64	SRGENAOL	eGRID subregion annual oil net generation (MWh)				98	99	00
65	SRGENAGS	eGRID subregion annual gas net generation (MWh)				98	99	00
66	SRGENANC	eGRID subregion annual nuclear net generation (MWh)				98	99	00
67	SRGENAHY	eGRID subregion annual hydro net generation (MWh)				98	99	00
68	SRGENABM	eGRID subregion annual biomass/wood net generation (MWh)				98	99	00
69	SRGENAWI	eGRID subregion annual wind net generation (MWh)				98	99	00
70	SRGENASO	eGRID subregion annual solar net generation (MWh)				98	99	00
71	SRGENAGT	eGRID subregion annual geothermal net generation (MWh)				98	99	00
72	SRGENAOF	eGRID subregion annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
73	SRGENASW	eGRID subregion annual solid waste net generation (MWh)				98	99	00
74	SRGENATN	eGRID subregion annual total nonrenewables net generation (MWh)				98	99	00
75	SRGENATR	eGRID subregion annual total renewables net generation (MWh)				98	99	00
76	SRGENATH	eGRID subregion annual total nonhydro renewables net generation (MWh)				98	99	00
77	SRCLPR	eGRID subregion coal generation percent (resource mix)				98	99	00
78	SROLPR	eGRID subregion oil generation percent (resource mix)				98	99	00
79	SRGSPR	eGRID subregion gas generation percent (resource mix)				98	99	00
80	SRNCPR	eGRID subregion nuclear generation percent (resource mix)				98	99	00
81	SRHYPR	eGRID subregion hydro generation percent (resource mix)				98	99	00
82	SRBMPR	eGRID subregion biomass/wood generation percent (resource mix)				98	99	00
83	SRWIPR	eGRID subregion wind generation percent (resource mix)				98	99	00
84	SRSOPR	eGRID subregion solar generation percent (resource mix)				98	99	00
85	SRGTPR	eGRID subregion geothermal generation percent (resource mix)				98	99	00
86	SROFPR	eGRID subregion other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
87	SRTNPR	eGRID subregion total nonrenewables generation percent (resource mix)				98	99	00
88	SRTRPR	eGRID subregion total renewables generation percent (resource mix)				98	99	00
89	SRTHPR	eGRID subregion total nonhydro renewables generation percent (resource mix)				98	99	00
90	SRTYP	eGRID subregion inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)				98	99	00
91	SEQSRP98	eGRID2000 1998 file location (operator)-based eGRID subregion sequence number				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#13 - EGRDNRCO NERC Region File [Owner-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQNR00	eGRID2002 2000 file NERC region sequence number					99	00
2	SEQNR99	eGRID2002 1999 file NERC region sequence number					99	00
3	NERC	NERC region acronym	EIA-861, EIA-860A	96	97	98	99	00
4	NERCNUM	NERC number associated with NERC region	EIA-759			98	99	00
5	NAMEPCAP	NERC capacity (MW)		96	97	98	99	00
6	NRHTIAN*	NERC annual heat input (MMBtu)		96	97	98	99	00
7	NRHTIOZ*	NERC ozone season heat input (MMBtu)		96	97	98	99	00
8	NRNGENAN	NERC annual net generation (MWh)		96	97	98	99	00
9	NRNGENOZ	NERC ozone season net generation (MWh)		96	97	98	99	00
10	NRNOXAN*	NERC annual NO_x emissions (tons)		96	97	98	99	00
11	NRNOXOZ*	NERC ozone season NO_x emissions (tons)		96	97	98	99	00
12	NRSO2AN*	NERC annual SO_2 emissions (tons)		96	97	98	99	00
13	NRCO2AN*	NERC annual CO_2 emissions (tons)		96	97	98	99	00
14	NRHGAN	NERC annual mercury emissions (lbs)				98	99	00
15	NRNOXRTA	NERC average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
16	NRNOXRTO	NERC average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
17	NRSO2RTA	NERC average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
18	NRCO2RTA	NERC average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
19	NRHGRTA	NERC average annual mercury output emission rate (lbs/GWh)				98	99	00
20	NRNOXRA	NERC average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
21	NRNOXRO	NERC average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
22	NRSO2RA	NERC average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
23	NRCO2RA	NERC average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
24	NRHGRA	NERC average annual mercury input emission rate (lbs/BBtu)				98	99	00
25	NRCNOXRT	NERC coal NO_x annual output emission rate (lbs/MWh)				98	99	00
26	NRONOXRT	NERC oil NO_x annual output emission rate (lbs/MWh)				98	99	00
27	NRGNOXRT	NERC gas NO_x annual output emission rate (lbs/MWh)				98	99	00
28	NRFSNXRT*	NERC fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
29	NRCNXORT	NERC coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
30	NRONXORT	NERC oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
31	NRGNXORT	NERC gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	NRFSNORT*	NERC fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
33	NRCSO2RT	NERC coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
34	NROSO2RT	NERC oil annual SO_2 output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#13 - EGRDNRCO NERC Region File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
35	NRGSO2RT	NERC gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	NRFSS2RT*	NERC fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
37	NRCCO2RT	NERC coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
38	NROCO2RT	NERC oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
39	NRGCO2RT	NERC gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	NRFSC2RT*	NERC fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
41	NRCHGRT	NERC coal annual mercury output emission rate (lbs/GWh)				98	99	00
42	NRFSHGRT	NERC fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
43	NRCNOXR	NERC coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
44	NRONOXR	NERC oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
45	NRGNOXR	NERC gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	NRFSNXR*	NERC fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
47	NRCNXOR	NERC coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
48	NRONXOR	NERC oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
49	NRGNXOR	NERC gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	NRFSNOR*	NERC fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
51	NRCSO2R	NERC coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
52	NROSO2R	NERC oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
53	NRGSO2R	NERC gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	NRFSS2R*	NERC fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
55	NRCCO2R	NERC coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
56	NROCO2R	NERC oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
57	NRGCO2R	NERC gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	NRFSC2R*	NERC fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
59	NRCHGR	NERC coal annual mercury input emission rate (lbs/BBtu)				98	99	00
60	NRFSHGR	NERC fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
61	NRGENACL	NERC annual coal net generation (MWh)		96	97	98	99	00
62	NRGENAOL	NERC annual oil net generation (MWh)		96	97	98	99	00
63	NRGENAGS	NERC annual gas net generation (MWh)		96	97	98	99	00
64	NRGENANC	NERC annual nuclear net generation (MWh)		96	97	98	99	00
65	NRGENAHY	NERC annual hydro net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#13 - EGRDNRCO NERC Region File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
66	NRGENABM*	NERC annual biomass/wood net generation (MWh)		96	97	98	99	00
67	NRGENAWI	NERC annual wind net generation (MWh)		96	97	98	99	00
68	NRGENASO	NERC annual solar net generation (MWh)		96	97	98	99	00
69	NRGENAGT	NERC annual geothermal net generation (MWh)		96	97	98	99	00
70	NRGENAOF	NERC annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
71	NRGENASW	NERC annual solid waste net generation (MWh)		96	97	98	99	00
72	NRGENAFS	NERC annual unspecified fossil net generation (MWh)		96	97			
73	NRGENARW	NERC annual unspecified renewable net generation (MWh)		96	97			
74	NRGENATN	NERC annual total nonrenewables net generation (MWh)		96	97	98	99	00
75	NRGENATR	NERC annual total renewables net generation (MWh)		96	97	98	99	00
76	NRGENATH	NERC annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
77	NRCLPR	NERC coal generation percent (resource mix)		96	97	98	99	00
78	NROLPR	NERC oil generation percent (resource mix)		96	97	98	99	00
79	NRGSPR	NERC gas generation percent (resource mix)		96	97	98	99	00
80	NRNCPR	NERC nuclear generation percent (resource mix)		96	97	98	99	00
81	NRHYPR	NERC hydro generation percent (resource mix)		96	97	98	99	00
82	NRBMPR*	NERC biomass/wood generation percent (resource mix)		96	97	98	99	00
83	NRWIPR	NERC wind generation percent (resource mix)		96	97	98	99	00
84	NRSOPR	NERC solar generation percent (resource mix)		96	97	98	99	00
85	NRGTPR	NERC geothermal generation percent (resource mix)		96	97	98	99	00
86	NROFPR	NERC other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
87	NRSWPR	NERC solid waste generation percent (resource mix)		96	97			
88	NRFSPR	NERC unspecified fossil generation percent (resource mix)		96	97			
89	NRRWPR	NERC unspecified renewable generation percent (resource mix)		96	97			
90	NRTNPR	NERC total nonrenewables generation percent (resource mix)		96	97	98	99	00
91	NRTRPR	NERC total renewables generation percent (resource mix)		96	97	98	99	00
92	NRTHPR	NERC total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
93	NRTYP	NERC inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
94	SEQNERC	eGRID96 1996 file NERC region sequence number		96	97	98	99	00
95	SEQNR97	eGRID97 1997 file NERC region sequence number		96	97	98	99	00
96	SEQNR98	eGRID2000 1998 file NERC region sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#14 - EGRDNRCL NERC Region File [Location-Based]

Field	Name	Description	Source(s)	Data Years				
1	SEQNR00	eGRID2002 2000 file NERC region sequence number					99	00
2	SEQNR99	eGRID2002 1999 file NERC region sequence number					99	00
3	NERC	NERC region acronym	EIA-861, EIA-860A	96	97	98	99	00
4	NERCNUM	NERC number associated with NERC region	EIA-759			98	99	00
5	NAMEPCAP	NERC capacity (MW)		96	97	98	99	00
6	NRHTIAN*	NERC annual heat input (MMBtu)		96	97	98	99	00
7	NRHTIOZ*	NERC ozone season heat input (MMBtu)		96	97	98	99	00
8	NRNGENAN	NERC annual net generation (MWh)		96	97	98	99	00
9	NRNGENOZ	NERC ozone season net generation (MWh)		96	97	98	99	00
10	NRNOXAN*	NERC annual NO_x emissions (tons)		96	97	98	99	00
11	NRNOXOZ*	NERC ozone season NO_x emissions (tons)		96	97	98	99	00
12	NRSO2AN*	NERC annual SO_2 emissions (tons)		96	97	98	99	00
13	NRCO2AN*	NERC annual CO_2 emissions (tons)		96	97	98	99	00
14	NRHGAN	NERC annual mercury emissions (lbs)				98	99	00
15	NRNOXRTA	NERC average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
16	NRNOXRTO	NERC average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
17	NRSO2RTA	NERC average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
18	NRCO2RTA	NERC average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
19	NRHGRTA	NERC average annual mercury output emission rate (lbs/GWh)				98	99	00
20	NRNOXRA	NERC average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
21	NRNOXRO	NERC average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
22	NRSO2RA	NERC average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
23	NRCO2RA	NERC average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
24	NRHGRA	NERC average annual mercury input emission rate (lbs/BBtu)				98	99	00
25	NRCNOXRT	NERC coal annual NO_x output emission rate (lbs/MWh)				98	99	00
26	NRONOXRT	NERC oil annual NO_x output emission rate (lbs/MWh)				98	99	00
27	NRGNOXRT	NERC gas annual NO_x output emission rate (lbs/MWh)				98	99	00
28	NRFSNXRT*	NERC fossil fuel annual NO_x output emission rate (lbs/MWh)			97	98	99	00
29	NRCNXORT	NERC coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
30	NRONXORT	NERC oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
31	NRGNXORT	NERC gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
32	NRFSNORT*	NERC fossil fuel ozone season NO_x output emission rate (lbs/MWh)			97	98	99	00
33	NRCSO2RT	NERC coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
34	NROSO2RT	NERC oil annual SO_2 output emission rate (lbs/MWh)				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#14 - EGRDNRCL NERC Region File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
35	NRGSO2RT	NERC gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
36	NRFSS2RT*	NERC fossil fuel annual SO_2 output emission rate (lbs/MWh)			97	98	99	00
37	NRCCO2RT	NERC coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
38	NROCO2RT	NERC oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
39	NRGCO2RT	NERC gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
40	NRFSC2RT*	NERC fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
41	NRCHGRT	NERC coal annual mercury output emission rate (lbs/GWh)				98	99	00
42	NRFSHGRT	NERC fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
43	NRCNOXR	NERC coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
44	NRONOXR	NERC oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
45	NRGNOXR	NERC gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
46	NRFSNXR*	NERC fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
47	NRCNXOR	NERC coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
48	NRONXOR	NERC oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
49	NRGNXOR	NERC gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
50	NRFSNOR*	NERC fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
51	NRCSO2R	NERC coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
52	NROSO2R	NERC oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
53	NRGSO2R	NERC gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
54	NRFSS2R*	NERC fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
55	NRCCO2R	NERC coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
56	NROCO2R	NERC oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
57	NRGCO2R	NERC gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
58	NRFSC2R*	NERC fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
59	NRCHGR	NERC coal annual mercury input emission rate (lbs/BBtu)				98	99	00
60	NRFSHGR	NERC fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
61	NRGENACL	NERC annual coal net generation (MWh)		96	97	98	99	00
62	NRGENAOL	NERC annual oil net generation (MWh)		96	97	98	99	00
63	NRGENAGS	NERC annual gas net generation (MWh)		96	97	98	99	00
64	NRGENANC	NERC annual nuclear net generation (MWh)		96	97	98	99	00
65	NRGENAHY	NERC annual hydro net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#14 - EGRDNRCL NERC Region File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
66	NRGENABM*	NERC annual biomass/wood net generation (MWh)		96	97	98	99	00
67	NRGENAWI	NERC annual wind net generation (MWh)		96	97	98	99	00
68	NRGENASO	NERC annual solar net generation (MWh)		96	97	98	99	00
69	NRGENAGT	NERC annual geothermal net generation (MWh)		96	97	98	99	00
70	NRGENAOF	NERC annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
71	NRGENASW	NERC annual solid waste net generation (MWh)		96	97	98	99	00
72	NRGENAFS	NERC annual unspecified fossil net generation (MWh)		96	97			
73	NRGENARW	NERC annual unspecified renewable net generation (MWh)		96	97			
74	NRGENATN	NERC annual total nonrenewables net generation (MWh)		96	97	98	99	00
75	NRGENATR	NERC annual total renewables net generation (MWh)		96	97	98	99	00
76	NRGENATH	NERC annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
77	NRCLPR	NERC coal generation percent (resource mix)		96	97	98	99	00
78	NROLPR	NERC oil generation percent (resource mix)		96	97	98	99	00
79	NRGSPR	NERC gas generation percent (resource mix)		96	97	98	99	00
80	NRNCPR	NERC nuclear generation percent (resource mix)		96	97	98	99	00
81	NRHYPR	NERC hydro generation percent (resource mix)		96	97	98	99	00
82	NRBMPR*	NERC biomass/wood generation percent (resource mix)		96	97	98	99	00
83	NRWIPR	NERC wind generation percent (resource mix)		96	97	98	99	00
84	NRSOPR	NERC solar generation percent (resource mix)		96	97	98	99	00
85	NRGTPR	NERC geothermal generation percent (resource mix)		96	97	98	99	00
86	NROFPR	NERC other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
87	NRSWPR	NERC solid waste generation percent (resource mix)		96	97			
88	NRFSPR	NERC unspecified fossil generation percent (resource mix)		96	97			
89	NRRWPR	NERC unspecified renewable generation percent (resource mix)		96	97			
90	NRTNPR	NERC total nonrenewables generation percent (resource mix)		96	97	98	99	00
91	NRTRPR	NERC total renewables generation percent (resource mix)		96	97	98	99	00
92	NRTHPR	NERC total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
93	NNRMW	NERC nonutility aggregated capacity (MW)			97			
94	NNRHTI	NERC nonutility aggregated annual heat input (MMBtu)			97			
95	NNRHTIO	NERC nonutility aggregated ozone season heat input (MMBtu)			97			
96	NNRNOX	NERC nonutility aggregated annual NO_x emissions (tons)			97			
97	NNRNOXO	NERC nonutility aggregated ozone season NO_x emissions (tons)			97			
98	NNRSO2	NERC nonutility aggregated annual SO_2 emissions (tons)			97			
99	NNRCO2	NERC nonutility aggregated annual CO_2 emissions (tons)			97			

Table 1 (continued)
eGRID File Structure - 1996-2000
#14 - EGRDNRCL NERC Region File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
100	NNRNRTA	NERC nonutility aggregated average annual NO_x rate (lbs/MWh)			97			
101	NNRNRTO	NERC nonutility aggregated average ozone season NO_x rate (lbs/MWh)			97			
102	NNRSRTA	NERC nonutility aggregated average annual SO_2 rate (lbs/MWh)			97			
103	NNRCRTA	NERC nonutility aggregated average annual CO_2 rate (lbs/MWh)			97			
104	NNRNRA	NERC nonutility aggregated average annual NO_x rate (lbs/MMBtu)			97			
105	NNRNRO	NERC nonutility aggregated average ozone season NO_x rate (lbs/MMBtu)			97			
106	NNRSRA	NERC nonutility aggregated average annual SO_2 rate (lbs/MMBtu)			97			
107	NNRCRA	NERC nonutility aggregated average annual CO_2 rate (lbs/MMBtu)			97			
108	NNRNGEN	NERC total nonutility aggregated annual net generation (MWh)			97			
109	NNRNGENO	NERC nonutility aggregated ozone season net generation (MWh)			97			
110	NNRGENFS	NERC nonutility aggregated annual unspecified fossil net generation (MWh)			97			
111	NNRGENHY	NERC nonutility aggregated annual unspecified hydro net generation (MWh)			97			
112	NNRGENRW	NERC nonutility aggregated annual unspecified renewable net generation (MWh)			97			
113	NNRFSPR	NERC nonutility aggregated unspecified fossil generation percent (resource mix)			97			
114	NNRHYPR	NERC nonutility aggregated unspecified hydro generation percent (resource mix)			97			
115	NNRRWPR	NERC nonutility aggregated unspecified renewable generation percent (resource mix)			97			
116	NRTYP	NERC inclusion of nonutilities flag (1=Includes nonutilities; 0=Otherwise)		96	97	98	99	00
117	SEQNERC	eGRID96 1996 file NERC region sequence number		96	97	98	99	00
118	SEQNR97	eGRID97 1997 file NERC region sequence number		96	97	98	99	00
119	SEQNR98	eGRID2000 1998 file NERC region sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#15 - EGRDUS U.S. Totals File

Field	Name	Description	Source(s)	Data Years				
1	SEQUS00	eGRID2002 2000 file U.S. sequence number					99	00
2	SEQUS99	eGRID2002 1999 file U.S. sequence number					99	00
3	USNAME	United States name		96	97	98	99	00
4	NAMEPCAP	U.S. capacity (MW)		96	97	98	99	00
5	USHTIAN*	U.S. annual heat input (MMBtu)		96	97	98	99	00
6	USHTIOZ*	U.S. ozone season heat input (MMBtu)		96	97	98	99	00
7	USNGENAN	U.S. annual net generation (MWh)		96	97	98	99	00
8	USNGENOZ	U.S. ozone season net generation (MWh)		96	97	98	99	00
9	USNOXAN*	U.S. annual NO_x emissions (tons)		96	97	98	99	00
10	USNOXOZ*	U.S. ozone season NO_x emissions (tons)		96	97	98	99	00
11	USSO2AN*	U.S. annual SO_2 emissions (tons)		96	97	98	99	00
12	USCO2AN*	U.S. annual CO_2 emissions (tons)		96	97	98	99	00
13	USHGAN	U.S. annual mercury emissions (lbs)				98	99	00
14	USNOXRTA	U.S. average annual NO_x output emission rate (lbs/MWh)		96	97	98	99	00
15	USNOXRTO	U.S. average ozone season NO_x output emission rate (lbs/MWh)		96	97	98	99	00
16	USSO2RTA	U.S. average annual SO_2 output emission rate (lbs/MWh)		96	97	98	99	00
17	USCO2RTA	U.S. average annual CO_2 output emission rate (lbs/MWh)		96	97	98	99	00
18	USHGRTA	U.S. average annual mercury output emission rate (lbs/GWh)				98	99	00
19	USNOXRA	U.S. average annual NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
20	USNOXRO	U.S. average ozone season NO_x input emission rate (lbs/MMBtu)		96	97	98	99	00
21	USSO2RA	U.S. average annual SO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
22	USCO2RA	U.S. average annual CO_2 input emission rate (lbs/MMBtu)		96	97	98	99	00
23	USHGRA	U.S. average annual mercury input emission rate (lbs/BBtu)				98	99	00
24	USCNOXRT	U.S. coal annual NO_x output emission rate (lbs/MWh)				98	99	00
25	USONOXRT	U.S. oil annual NO_x output emission rate (lbs/MWh)				98	99	00
26	USGNOXRT	U.S. gas annual NO_x output emission rate (lbs/MWh)				98	99	00
27	USFSNXRT*	U.S. fossil fuel annual NO_x output emission rate (lbs/MWh)*			97	98	99	00
28	USCNXORT	U.S. coal ozone season NO_x output emission rate (lbs/MWh)				98	99	00
29	USONXORT	U.S. oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00
30	USGNXORT	U.S. gas ozone season NO_x output emission rate (lbs/MWh)				98	99	00
31	USFSNORT*	U.S. fossil fuel ozone season NO_x output emission rate (lbs/MWh)*			97	98	99	00
32	USCSO2RT	U.S. coal annual SO_2 output emission rate (lbs/MWh)				98	99	00
33	USOSO2RT	U.S. oil annual SO_2 output emission rate (lbs/MWh)				98	99	00
34	USGSO2RT	U.S. gas annual SO_2 output emission rate (lbs/MWh)				98	99	00
35	USFSS2RT*	U.S. fossil fuel annual SO_2 output emission rate (lbs/MWh)*			97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#15 - EGRDUS U.S. Totals File (continued)

Field	Name	Description	Source(s)	Data Years				
36	USCCO2RT	U.S. coal annual CO_2 output emission rate (lbs/MWh)				98	99	00
37	USOCO2RT	U.S. oil annual CO_2 output emission rate (lbs/MWh)				98	99	00
38	USGCO2RT	U.S. gas annual CO_2 output emission rate (lbs/MWh)				98	99	00
39	USFSC2RT*	U.S. fossil fuel annual CO_2 output emission rate (lbs/MWh)			97	98	99	00
40	USCHGRT	U.S. coal annual mercury output emission rate (lbs/GWh)				98	99	00
41	USFSHGRT	U.S. fossil fuel annual mercury output emission rate (lbs/GWh)				98	99	00
42	USCNOXR	U.S. coal annual NO_x input emission rate (lbs/MMBtu)				98	99	00
43	USONOXR	U.S. oil annual NO_x input emission rate (lbs/MMBtu)				98	99	00
44	USGNOXR	U.S. gas annual NO_x input emission rate (lbs/MMBtu)				98	99	00
45	USFSNXR*	U.S. fossil fuel annual NO_x input emission rate (lbs/MMBtu)			97	98	99	00
46	USCNXOR	U.S. coal ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
47	USONXOR	U.S. oil ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
48	USGNXOR	U.S. gas ozone season NO_x input emission rate (lbs/MMBtu)				98	99	00
49	USFSNOR*	U.S. fossil fuel ozone season NO_x input emission rate (lbs/MMBtu)			97	98	99	00
50	USCSO2R	U.S. coal annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
51	USOSO2R	U.S. oil annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
52	USGSO2R	U.S. gas annual SO_2 input emission rate (lbs/MMBtu)				98	99	00
53	USFSS2R*	U.S. fossil fuel annual SO_2 input emission rate (lbs/MMBtu)			97	98	99	00
54	USCCO2R	U.S. coal annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
55	USOCO2R	U.S. oil annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
56	USGCO2R	U.S. gas annual CO_2 input emission rate (lbs/MMBtu)				98	99	00
57	USFSC2R*	U.S. fossil fuel annual CO_2 input emission rate (lbs/MMBtu)			97	98	99	00
58	USCHGR	U.S. coal annual mercury input emission rate (lbs/BBtu)				98	99	00
59	USFSHGR	U.S. fossil fuel annual mercury input emission rate (lbs/BBtu)				98	99	00
60	USGENACL	U.S. annual coal net generation (MWh)		96	97	98	99	00
61	USGENAOL	U.S. annual oil net generation (MWh)		96	97	98	99	00
62	USGENAGS	U.S. annual gas net generation (MWh)		96	97	98	99	00
63	USGENANC	U.S. annual nuclear net generation (MWh)		96	97	98	99	00
64	USGENAHY	U.S. annual hydro net generation (MWh)		96	97	98	99	00
65	USGENABM*	U.S. annual biomass/wood net generation (MWh)		96	97	98	99	00
66	USGENAWI	U.S. annual wind net generation (MWh)		96	97	98	99	00
67	USGENASO	U.S. annual solar net generation (MWh)		96	97	98	99	00
68	USGENAGT	U.S. annual geothermal net generation (MWh)		96	97	98	99	00
69	USGENAOF	U.S. annual other fossil (tires, batteries, chemicals, etc.) net generation (MWh)				98	99	00
70	USGENASW	U.S. annual solid waste net generation (MWh)		96	97	98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#15 - EGRDUS U.S. Totals File (continued)

Field	Name	Description	Source(s)	Data Years				
71	USGENAFS	U.S. annual unspecified fossil net generation (MWh)		96	97			
72	USGENARW	U.S. annual unspecified renewable net generation (MWh)		96	97			
73	USGENATN	U.S. annual total nonrenewables net generation (MWh)		96	97	98	99	00
74	USGENATR	U.S. annual total renewables net generation (MWh)		96	97	98	99	00
75	USGENATH	U.S. annual total nonhydro renewables net generation (MWh)		96	97	98	99	00
76	USCLPR	U.S. coal generation percent (resource mix)		96	97	98	99	00
77	USOLPR	U.S. oil generation percent (resource mix)		96	97	98	99	00
78	USGSPR	U.S. gas generation percent (resource mix)		96	97	98	99	00
79	USNCPR	U.S. nuclear generation percent (resource mix)		96	97	98	99	00
80	USHYPR	U.S. hydro generation percent (resource mix)		96	97	98	99	00
81	USBMPR*	U.S. biomass/wood generation percent (resource mix)		96	97	98	99	00
82	USWIPR	U.S. wind generation percent (resource mix)		96	97	98	99	00
83	USSOPR	U.S. solar generation percent (resource mix)		96	97	98	99	00
84	USGTPR	U.S. geothermal generation percent (resource mix)		96	97	98	99	00
85	USOFPR	U.S. other fossil (tires, batteries, chemicals, etc.) generation percent (resource mix)				98	99	00
86	USSWPR	U.S. solid waste generation percent (resource mix)		96	97			
87	USFSPR	U.S. unspecified fossil generation percent (resource mix)		96	97			
88	USRWPR	U.S. unspecified renewable generation percent (resource mix)		96	97			
89	USTNPR	U.S. total nonrenewables generation percent (resource mix)		96	97	98	99	00
90	USTRPR	U.S. total renewables generation percent (resource mix)		96	97	98	99	00
91	USTHPR	U.S. total nonhydro renewables generation percent (resource mix)		96	97	98	99	00
92	SEQUS96	eGRID96 1996 file U.S. sequence number		96	97	98	99	00
93	SEQUS97	eGRID97 1997 file U.S. sequence number		96	97	98	99	00
94	SEQUS98	eGRID2000 1998 file U.S. sequence number		96	97	98	99	00

*Definitions differ among data years.

Table 1 (continued)
eGRID File Structure - 1996-2000
#16 - EGRDBMSW Biomass-Solid Waste Emissions Plant File

Field	Name	Description	Data Years		
1	SEQPLT98	eGRID2000 1998 file plant sequence number		97	98
2	PSTATABB	State abbreviation		97	98
3	PNAME	Plant name		97	98
4	ORISPL	DOE/EIA ORIS plant or facility code		97	98
5	RMETFLAG	Renewable methane plant flag (1=yes; 0=other biomass or solid waste)			98
6	SO2ORG	Plant annual SO_2 emissions before adjustment for burning biomass or solid waste (tons)		97	98
7	SO2ADJ	Plant annual SO_2 emissions after adjustment for burning biomass or solid waste (tons)		97	98
8	SO2RTORG	Plant annual SO_2 output emission rate before adjustment for burning biomass or solid waste (lbs/MWh)		97	98
9	SO2RTADJ	Plant annual SO_2 output emission rate after adjustment for burning biomass or solid waste (lbs/MWh)		97	98
10	SO2RORG	Plant annual SO_2 input emission rate before adjustment for burning biomass or solid waste (lbs/MMBtu)		97	98
11	SO2RADJ	Plant annual SO_2 input emission rate after adjustment for burning biomass or solid waste (lbs/MMBtu)		97	98
12	NOXORG	Plant annual NO_x emissions before adjustment for burning biomass or solid waste (tons)		97	98
13	NOXADJ	Plant annual NO_x emissions after adjustment for burning biomass or solid waste (tons)		97	98
14	NOXRTORG	Plant annual NO_x output emission rate before adjustment for burning biomass or solid waste (lbs/MWh)		97	98
15	NOXRTADJ	Plant annual NO_x output emission rate after adjustment for burning biomass or solid waste (lbs/MWh)		97	98
16	NOXRORG	Plant annual NO_x input emission rate before adjustment for burning biomass or solid waste (lbs/MMBtu)		97	98
17	NOXRADJ	Plant annual NO_x input emission rate after adjustment for burning biomass or solid waste (lbs/MMBtu)		97	98
18	NXOORG	Plant ozone season NO_x emissions before adjustment for burning biomass or solid waste (tons)			98
19	NXOADJ	Plant ozone season NO_x emissions after adjustment for burning biomass or solid waste (tons)			98
20	NXORTORG	Plant ozone season NO_x output emission rate before adjustment for burning biomass or solid waste (lbs/MWh)			98
21	NXORTADJ	Plant ozone season NO_x output emission rate after adjustment for burning biomass or solid waste (lbs/MWh)			98
22	NXORORG	Plant ozone season NO_x input emission rate before adjustment for burning biomass or solid waste (lbs/MMBtu)			98
23	NXORADJ	Plant ozone season NO_x input emission rate after adjustment for burning biomass or solid waste (lbs/MMBtu)			98
24	CO2ORG	Plant annual CO_2 emissions before adjustment for burning biomass or solid waste (tons)		97	98
25	CO2ADJ	Plant annual CO_2 emissions after adjustment for burning biomass or solid waste (tons)		97	98
26	CO2RTORG	Plant annual CO_2 output emission rate before adjustment for burning biomass or solid waste (lbs/MWh)		97	98
27	CO2RTADJ	Plant annual CO_2 output emission rate after adjustment for burning biomass or solid waste (lbs/MWh)		97	98
28	CO2RORG	Plant annual CO_2 input emission rate before adjustment for burning biomass or solid waste (lbs/MMBtu)		97	98
29	CO2RADJ	Plant annual CO_2 input emission rate after adjustment for burning biomass or solid waste (lbs/MMBtu)		97	98

Table 1 (continued)
eGRID File Structure - 1996-2000
#17 - EGRDPLCH Plant Note File
(Note that a plant may have more than one record)

Field	Name	Description	Source(s)	Data Years				
1	SEQPLCH	eGRID2002 plant change sequence number				98	99	00
2	SEQPLT00	eGRID2002 2000 file plant sequence number					99	00
3	SEQPLT98	eGRID2000 1998 file plant sequence number				98	99	00
4	PNAME	Plant name				98	99	00
5	ORISPL	DOE/EIA ORIS plant or facility code	EIA, updates			98	99	00
6	CHTYPE	Type of note (OWN=New owner, OPR=New operator, SPL=Plant ownership split)	EIA, updates			98	99	00
7	CHDATE	Change date (yymm)	EIA, updates			98	99	00
8	OLDNAME	Old name	EIA, updates			98	99	00
9	OLDID	Old ID	EIA, updates			98	99	00
10	NEWNAME	New name	EIA, updates			98	99	00
11	NEWID	New ID	EIA, updates			98	99	00
12	PRVOWNTY	Previous owner type (U=Utility, N=Nonutility), if CHTYPE=OWN or OPR	EIA, updates			98	99	00
13	OLDPERC	Old percent, if CHTYPE=OWN				98	99	00
14	NEWPERC	New percent, if CHTYPE=OWN				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#18 - EGRDEGCH EGC Note File
(Note that an EGC may have more than one record)

Field	Name	Description	Source(s)	Data Years				
1	SEQEGCH	eGRID2002 EGC change sequence number				98	99	00
2	SEQEGO00	eGRID2002 2000 file owner-based EGC sequence number					99	00
3	SEQEGP00	eGRID2002 2000 file location (operator)-based EGC sequence number						00
4	SEQEGO98	eGRID2000 1998 file owner-based EGC sequence number				98	99	00
5	SEQEGP98	eGRID2000 1998 file location (operator)-based EGC sequence number				98	99	00
6	EGCNAME	EGC name				98	99	00
7	EGCID	EGC ID				98	99	00
8	CHTYPE	Type of note (A=Absorption, M=Merger, NC=New PCA, NN=New NERC region, NP=New parent company, NT=Note, P=Pending, R=Rename, RC=Reconfigured PCA, S=Spun Off)				98	99	00
9	CHDATE	Change year				98	99	00
10	CHDESC	Note text				98	99	00
11	OLDNAME	Old name				98	99	00
12	OLDID	Old ID				98	99	00
13	NEWNAME	New name				98	99	00
14	NEWID	New ID				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#19 - EGRDPRCH Parent Note File
(Note that a Parent Company may have more than one record)

Field	Name	Description	Source(s)	Data Years				
1	SEQPRCH	eGRID2002 parent company change sequence number				98	99	00
2	SEQPRO00	eGRID2002 2000 file owner-based parent company sequence number					99	00
3	SEQPRP00	eGRID2002 2000 file location (operator)-based parent company sequence number						00
4	SEQPRO98	eGRID2000 1998 file owner-based parent company sequence number				98	99	00
5	SEQPRP98	eGRID2000 1998 file location (operator)-based parent company sequence number				98	99	00
6	PRNAME	Parent company name				98	99	00
7	PRNUM	Parent company ID				98	99	00
8	CHTYPE	Type of note (A=Absorption, AS=Added subsidiary, FP=Former parent, M=Merger, M, NP=Merger & New parent company, NP=New parent company, NT=Note, P=Pending, R=Rename)				98	99	00
9	CHDATE	Change year				98	99	00
10	CHDESC	Note text				98	99	00
11	OLDNAME	Old name				98	99	00
12	OLDID	Old ID				98	99	00
13	NEWNAME	New name				98	99	00
14	NEWID	New ID				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#20 - EGRDPCCH PCA Note File
(Note that a PCA may have more than one record)

Field	Name	Description	Source(s)	Data Years				
1	SEQPCCH	eGRID2002 PCA change sequence number				98	99	00
2	SEQPCO00	eGRID2002 2000 file owner-based PCA sequence number					99	00
3	SEQPCP00	eGRID2002 2000 file location (operator)-based PCA sequence number						00
4	SEQPCO98	eGRID2000 1998 file owner-based PCA sequence number				98	99	00
5	SEQPCP98	eGRID2000 1998 file location (operator)-based PCA sequence number				98	99	00
6	PCANAME	PCA name				98	99	00
7	PCAID	PCA ID				98	99	00
8	CHTYPE	Type of note (A=Absorption, M=Merger, NC=New PCA, NN=New NERC region, NT=Note, P=Pending, R=Rename, RC=Reconfigured PCA)				98	99	00
9	CHDATE	Change year				98	99	00
10	CHDESC	Note text				98	99	00
11	OLDNAME	Old name				98	99	00
12	OLDID	Old ID				98	99	00
13	NEWNAME	New name				98	99	00
14	NEWID	New ID				98	99	00

Table 1 (continued)
eGRID File Structure - 1996-2000
#21 - EGSTIE94 - 1994 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN94	1994 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN94	1994 State nonutility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table
7	TNGEN94	1994 State total net generation (=UTNGEN94 + NUNGEN94) (GWh)	
8	UTSLCN94	1994 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN94	1994 State unregulated sales to ultimate consumer (GWh)	
10	UTCNEL94	1994 State energy used by electric department (GWh)	EIA-861
11	UTCNFR94	1994 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN94	1994 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN94 + NUSLCN94 + UTCNEL94 + UTCNFR94) (GWh)	
13	GRDLSF94	1994 grid gross loss factor	
14	ADJNTG94	1994 State adjusted total net generation (=(1 - GRDLSF94) * TNGEN94) (GWh)	
15	ESTNEI94	1994 State estimated net imports (TOTCN94 - ADJNTG94) (GWh)	
16	PRESNI94	1994 State estimated net imports as a percent of total consumption (=100 * ESTNEI94/TOTCN94)	
17	PRESNE94	1994 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI94/TNGEN94))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#22 - EGSTIE95 - 1995 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN95	1995 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN95	1995 State nonutility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table
7	TNGEN95	1995 State total net generation (=UTNGEN95 + NUNGEN95) (GWh)	
8	UTSLCN95	1995 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN95	1995 State unregulated sales to ultimate consumer (GWh)	
10	UTCNEL95	1995 State energy used by electric department (GWh)	EIA-861
11	UTCNFR95	1995 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN95	1995 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN95 + NUSLCN95 + UTCNEL95 + UTCNFR95) (GWh)	
13	GRDLSF95	1995 grid gross loss factor	
14	ADJNTG95	1995 State adjusted total net generation (=(1 - GRDLSF95) * TNGEN95) (GWh)	
15	ESTNEI95	1995 State estimated net imports (TOTCN95 - ADJNTG95) (GWh)	
16	PRESNI95	1995 State estimated net imports as a percent of total consumption (=100 * ESTNEI95/TOTCN95)	
17	PRESNE95	1995 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI95/TNGEN95))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#23 - EGSTIE96 - 1996 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN96	1996 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN96	1996 State nonutility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table
7	TNGEN96	1996 State total net generation (=UTNGEN96 + NUNGEN96) (GWh)	
8	UTSLCN96	1996 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN96	1996 State unregulated sales to ultimate consumer (GWh)	EIA's *Electric Sales and Revenue*
10	UTCNEL96	1996 State energy used by electric department (GWh)	EIA-861
11	UTCNFR96	1996 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN96	1996 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN96 + NUSLCN96 + UTCNEL96 + UTCNFR96) (GWh)	
13	GRDLSF96	1996 grid gross loss factor	
14	ADJNTG96	1996 State adjusted total net generation (=(1 - GRDLSF96) * TNGEN96) (GWh)	
15	ESTNEI96	1996 State estimated net imports (TOTCN96 - ADJNTG96) (GWh)	
16	PRESNI96	1996 State estimated net imports as a percent of total consumption (=100 * ESTNEI96/TOTCN96)	
17	PRESNE96	1996 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI96/TNGEN96))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#24 - EGSTIE97 - 1997 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN97	1997 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN97	1997 State nonutility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1 & Vol. 2, EIA Custom Table
7	TNGEN97	1997 State total net generation (=UTNGEN97 + NUNGEN97) (GWh)	
8	UTSLCN97	1997 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN97	1997 State unregulated sales to ultimate consumer (GWh)	EIA's *Electric Sales and Revenue*
10	UTCNEL97	1997 State energy used by electric department (GWh)	EIA-861
11	UTCNFR97	1997 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN97	1997 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN97 + NUSLCN97 + UTCNEL97 + UTCNFR97) (GWh)	
13	GRDLSF97	1997 grid gross loss factor	
14	ADJNTG97	1997 State adjusted total net generation (=(1 - GRDLSF97) * TNGEN97) (GWh)	
15	ESTNEI97	1997 State estimated net imports (TOTCN97 - ADJNTG97) (GWh)	
16	PRESNI97	1997 State estimated net imports as a percent of total consumption (=100 * ESTNEI97/TOTCN97)	
17	PRESNE97	1997 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI97/TNGEN97))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#25 - EGSTIE98 - 1998 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN98	1998 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN98	1998 State nonutility net generation (GWh)	EIA Custom Table
7	TNGEN98	1998 State total net generation (=UTNGEN98 + NUNGEN98) (GWh)	
8	UTSLCN98	1998 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN98	1998 State unregulated sales to ultimate consumer (GWh)	EIA's *Electric Sales and Revenue*
10	UTCNEL98	1998 State energy used by electric department (GWh)	EIA-861
11	UTCNFR98	1998 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN98	1998 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN98 + NUSLCN98 + UTCNEL98 + UTCNFR98) (GWh)	
13	GRDLSF98	1998 grid gross loss factor	
14	ADJNTG98	1998 State adjusted total net generation (=(1 - GRDLSF98) * TNGEN98) (GWh)	
15	ESTNEI98	1998 State estimated net imports (TOTCN98 - ADJNTG98) (GWh)	
16	PRESNI98	1998 State estimated net imports as a percent of total consumption (=100 * ESTNEI98/TOTCN98)	
17	PRESNE98	1998 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI98/TNGEN98))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#26 - EGSTIE99 - 1999 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN99	1999 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN99	1999 State nonutility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
7	TNGEN99	1999 State total net generation (=UTNGEN99 + NUNGEN99) (GWh)	
8	UTSLCN99	1999 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN99	1999 State unregulated sales to ultimate consumer (GWh)	EIA's *Electric Sales and Revenue*
10	UTCNEL99	1999 State energy used by electric department (GWh)	EIA-861
11	UTCNFR99	1999 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN99	1999 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN99 + NUSLCN99 + UTCNEL99 + UTCNFR99) (GWh)	
13	GRDLSF99	1999 grid gross loss factor	
14	ADJNTG99	1999 State adjusted total net generation (=(1 - GRDLSF99) * TNGEN99) (GWh)	
15	ESTNEI99	1999 State estimated net imports (TOTCN99 - ADJNTG99) (GWh)	
16	PRESNI99	1999 State estimated net imports as a percent of total consumption (=100 * ESTNEI99/TOTCN99)	
17	PRESNE99	1999 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI99/TNGEN99))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#27 - EGSTIE00 - 2000 State Import/Export File

Field	Name	Description	Source(s)
1	SEQST00	eGRID2002 2000 file State sequence number	
2	SEQST99	eGRID2002 1999 file State sequence number	
3	PSTATABB	State abbreviation	
4	GRIDRGN	Grid region (E=Eastern grid, W=Western grid, A=Alaska, H=Hawaii, T=Texas)	
5	UTNGEN00	2000 State utility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
6	NUNGEN00	2000 State nonutility net generation (GWh)	EIA's *Electric Power Annual*, Vol. 1
7	TNGEN00	2000 State total net generation (=UTNGEN00 + NUNGEN00) (GWh)	
8	UTSLCN00	2000 State utility sales to ultimate consumer (GWh)	EIA's *Electric Power Annual*, Vol. 2
9	NUSLCN00	2000 State unregulated sales to ultimate consumer (GWh)	EIA's *Electric Sales and Revenue*
10	UTCNEL00	2000 State energy used by electric department (GWh)	EIA-861
11	UTCNFR00	2000 State utility energy furnished without charge (GWh)	EIA-861
12	TOTCN00	2000 State total consumption, excluding nonutility energy furnished without charge (=UTSLCN00 + NUSLCN00 + UTCNEL00 + UTCNFR00) (GWh)	
13	GRDLSF00	2000 grid gross loss factor	
14	ADJNTG00	2000 State adjusted total net generation (=(1 - GRDLSF00) * TNGEN00) (GWh)	
15	ESTNEI00	2000 State estimated net imports (TOTCN00 - ADJNTG00) (GWh)	
16	PRESNI00	2000 State estimated net imports as a percent of total consumption (=100 * ESTNEI00/TOTCN00)	
17	PRESNE00	2000 State estimated net exports as a percent of total net generation (=100 * (- ESTNEI00/TNGEN00))	
18	SEQST98	eGRID2000 1998 file State sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#28 - EGRDUSGC - 1994-2000 U.S. Generation and Consumption File

Field	Name	Description	Source(s)
1	USUNGN94	1994 U.S. utility net generation (GWh)	
2	USNNGN94	1994 U.S. nonutility net generation (GWh)	
3	USTNGN94	1994 U.S. total net generation (GWh)	
4	USTCON94	1994 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
5	USCNFI94	1994 net Canadian imports (GWh)	DOE-FE781R
6	USMNFI94	1994 net Mexican imports (GWh)	DOE-FE781R
7	USTNFI94	1994 net foreign imports (GWh)	
8	USUNGN95	1995 U.S. utility net generation (GWh)	
9	USNNGN95	1995 U.S. nonutility net generation (GWh)	
10	USTNGN95	1995 U.S. total net generation (GWh)	
11	USTCON95	1995 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
12	USCNFI95	1995 net Canadian imports (GWh)	DOE-FE781R
13	USMNFI95	1995 net Mexican imports (GWh)	DOE-FE781R
14	USTNFI95	1995 net foreign imports (GWh)	
15	USUNGN96	1996 U.S. utility net generation (GWh)	
16	USNNGN96	1996 U.S. nonutility net generation (GWh)	
17	USTNGN96	1996 U.S. total net generation (GWh)	
18	USTCON96	1996 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
19	USCNFI96	1996 net Canadian imports (GWh)	DOE-FE781R
20	USMNFI96	1996 net Mexican imports (GWh)	DOE-FE781R
21	USTNFI96	1996 net foreign imports (GWh)	
22	USUNGN97	1997 U.S. utility net generation (GWh)	
23	USNNGN97	1997 U.S. nonutility net generation (GWh)	
24	USTNGN97	1997 U.S. total net generation (GWh)	
25	USTCON97	1997 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
26	USCNFI97	1997 net Canadian imports (GWh)	DOE-FE781R
27	USMNFI97	1997 net Mexican imports (GWh)	DOE-FE781R
28	USTNFI97	1997 net foreign imports (GWh)	
29	USUNGN98	1998 U.S. utility net generation (GWh)	
30	USNNGN98	1998 U.S. nonutility net generation (GWh)	
31	USTNGN98	1998 U.S. total net generation (GWh)	
32	USTCON98	1998 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
33	USCNFI98	1998 net Canadian imports (GWh)	DOE-FE781R
34	USMNFI98	1998 net Mexican imports (GWh)	DOE-FE781R
35	USTNFI98	1998 net foreign imports (GWh)	
36	USUNGN99	1999 U.S. utility net generation (GWh)	
37	USNNGN99	1999 U.S. nonutility net generation (GWh)	
38	USTNGN99	1999 U.S. total net generation (GWh)	
39	USTCON99	1999 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
40	USCNFI99	1999 net Canadian imports (GWh)	DOE-FE781R
41	USMNFI99	1999 net Mexican imports (GWh)	DOE-FE781R
42	USTNFI99	1999 net foreign imports (GWh)	
43	USUNGN00	2000 U.S. utility net generation (GWh)	
44	USNNGN00	2000 U.S. nonutility net generation (GWh)	
45	USTNGN00	2000 U.S. total net generation (GWh)	
46	USTCON00	2000 U.S. total consumption, excluding nonutility energy furnished without charge (GWh)	
47	USCNFI00	2000 net Canadian imports (GWh)	DOE-FE781R
48	USMNFI00	2000 net Mexican imports (GWh)	DOE-FE781R
49	USTNFI00	2000 net foreign imports (GWh)	

Table 1 (continued)
eGRID File Structure - 1996-2000
#29 - EGPINT94 - 1994 PCA Interchange File

Field	Name	Description	Source(s)
1	PCANAME	PCA name of reporting PCA	Updated FERC-714 Schedule 5
2	PCAID	PCA ID of reporting PCA	Updated FERC-714 Schedule 5
3	NERC	NERC region acronym associated with the reporting PCA	Updated EIA-861
4	PCANMADJ	PCA name of adjacent PCA	Updated FERC-714 Schedule 5
5	PCAIDADJ	PCA ID of adjacent PCA	Updated FERC-714 Schedule 5
6	NERCADJ	NERC region acronym associated with the adjacent PCA	Updated EIA-861
7	RCRECD94	1994 energy received by reporting PCA from the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
8	RCDLVD94	1994 energy delivered by reporting PCA to the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
9	RCNETI94	1994 net interchange of the reporting PCA with the adjacent PCA (=RCRECD94 - RCDLVD94) (MWh)	
10	ACRECD94	1994 adjacent PCA's report of energy received from the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
11	ACDLVD94	1994 adjacent PCA's report of energy delivered to the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
12	ACNETI94	1994 net interchange of the adjacent PCA with the reporting PCA (=ACRECD94 - ACDLVD94) (MWh)	
13	MATCHP94	1994 PCA match flag to determine if RCNETI94 = - ACNETI94 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
14	SEQPCO98	eGRID2000 1998 file owner-based PCA sequence number	
15	SEQPCP98	eGRID2000 1998 file location (operator)-based PCA sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#30 - EGPINT95 - 1995 PCA Interchange File

Field	Name	Description	Source(s)
1	PCANAME	PCA name of reporting PCA	Updated FERC-714 Schedule 5
2	PCAID	PCA ID of reporting PCA	Updated FERC-714 Schedule 5
3	NERC	NERC region acronym associated with the reporting PCA	Updated EIA-861
4	PCANMADJ	PCA name of adjacent PCA	Updated FERC-714 Schedule 5
5	PCAIDADJ	PCA ID of adjacent PCA	Updated FERC-714 Schedule 5
6	NERCADJ	NERC region acronym associated with the adjacent PCA	Updated EIA-861
7	RCRECD95	1995 energy received by reporting PCA from the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
8	RCDLVD95	1995 energy delivered by reporting PCA to the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
9	RCNETI95	1995 net interchange of the reporting PCA with the adjacent PCA (=RCRECD95 - RCDLVD95) (MWh)	
10	ACRECD95	1995 adjacent PCA's report of energy received from the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
11	ACDLVD95	1995 adjacent PCA's report of energy delivered to the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
12	ACNETI95	1995 net interchange of the adjacent PCA with the reporting PCA (=ACRECD95 - ACDLVD95) (MWh)	
13	MATCHP95	1995 PCA match flag to determine if RCNETI95 = - ACNETI95 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
14	SEQPCO98	eGRID2000 1998 file owner-based PCA sequence number	
15	SEQPCP98	eGRID2000 1998 file location (operator)-based PCA sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#31 - EGPINT96 - 1996 PCA Interchange File

Field	Name	Description	Source(s)
1	PCANAME	PCA name of reporting PCA	Updated FERC-714 Schedule 5
2	PCAID	PCA ID of reporting PCA	Updated FERC-714 Schedule 5
3	NERC	NERC region acronym associated with the reporting PCA	Updated EIA-861
4	PCANMADJ	PCA name of adjacent PCA	Updated FERC-714 Schedule 5
5	PCAIDADJ	PCA ID of adjacent PCA	Updated FERC-714 Schedule 5
6	NERCADJ	NERC region acronym associated with the adjacent PCA	Updated EIA-861
7	RCRECD96	1996 energy received by reporting PCA from the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
8	RCDLVD96	1996 energy delivered by reporting PCA to the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
9	RCNETI96	1996 net interchange of the reporting PCA with the adjacent PCA (=RCRECD96 - RCDLVD96) (MWh)	
10	ACRECD96	1996 adjacent PCA's report of energy received from the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
11	ACDLVD96	1996 adjacent PCA's report of energy delivered to the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
12	ACNETI96	1996 net interchange of the adjacent PCA with the reporting PCA (=ACRECD96 - ACDLVD96) (MWh)	
13	MATCHP96	1996 PCA match flag to determine if RCNETI96 = - ACNETI96 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
14	SEQPCO98	eGRID2000 1998 file owner-based PCA sequence number	
15	SEQPCP98	eGRID2000 1998 file location (operator)-based PCA sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#32 - EGPINT97 - 1997 PCA Interchange File

Field	Name	Description	Source(s)
1	PCANAME	PCA name of reporting PCA	Updated FERC-714 Schedule 5
2	PCAID	PCA ID of reporting PCA	Updated FERC-714 Schedule 5
3	NERC	NERC region acronym associated with the reporting PCA	Updated EIA-861
4	PCANMADJ	PCA name of adjacent PCA	Updated FERC-714 Schedule 5
5	PCAIDADJ	PCA ID of adjacent PCA	Updated FERC-714 Schedule 5
6	NERCADJ	NERC region acronym associated with the adjacent PCA	Updated EIA-861
7	RCRECD97	1997 energy received by reporting PCA from the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
8	RCDLVD97	1997 energy delivered by reporting PCA to the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
9	RCNETI97	1997 net interchange of the reporting PCA with the adjacent PCA (=RCRECD97 - RCDLVD97) (MWh)	
10	ACRECD97	1997 adjacent PCA's report of energy received from the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
11	ACDLVD97	1997 adjacent PCA's report of energy delivered to the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
12	ACNETI97	1997 net interchange of the adjacent PCA with the reporting PCA (=ACRECD97 - ACDLVD97) (MWh)	
13	MATCHP97	1997 PCA match flag to determine if RCNETI97 = - ACNETI97 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
14	SEQPCO98	eGRID2000 1998 file owner-based PCA sequence number	
15	SEQPCP98	eGRID2000 1998 file location (operator)-based PCA sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#33 - EGPINT98 - 1998 PCA Interchange File

Field	Name	Description	Source(s)
1	PCANAME	PCA name of reporting PCA	Updated FERC-714 Schedule 5
2	PCAID	PCA ID of reporting PCA	Updated FERC-714 Schedule 5
3	NERC	NERC region acronym associated with the reporting PCA	Updated EIA-861
4	PCANMADJ	PCA name of adjacent PCA	Updated FERC-714 Schedule 5
5	PCAIDADJ	PCA ID of adjacent PCA	Updated FERC-714 Schedule 5
6	NERCADJ	NERC region acronym associated with the adjacent PCA	Updated EIA-861
7	RCRECD98	1998 energy received by reporting PCA from the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
8	RCDLVD98	1998 energy delivered by reporting PCA to the adjacent PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
9	RCNETI98	1998 net interchange of the reporting PCA with the adjacent PCA (=RCRECD98 - RCDLVD98) (MWh)	
10	ACRECD98	1998 adjacent PCA's report of energy received from the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (e)
11	ACDLVD98	1998 adjacent PCA's report of energy delivered to the reporting PCA (MWh)	Updated FERC-714 Schedule 5, Col (f)
12	ACNETI98	1998 net interchange of the adjacent PCA with the reporting PCA (=ACRECD98 - ACDLVD98) (MWh)	
13	MATCHP98	1998 PCA match flag to determine if RCNETI98 = - ACNETI98 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
14	SEQPCO98	eGRID2000 1998 file owner-based PCA sequence number	
15	SEQPCP98	eGRID2000 1998 file location (operator)-based PCA sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#34 - EGNINT94 - 1994 NERC Interchange File

Field	Name	Description	Source(s)
1	NERC	NERC region acronym of reporting NERC region	
2	NERCADJ	NERC acronym of adjacent NERC region	
3	RNRECD94	1994 energy received by reporting NERC from the adjacent NERC (MWh)	
4	RNDLVD94	1994 energy delivered by reporting NERC to the adjacent NERC (MWh)	
5	RNNETI94	1994 net interchange of the reporting NERC with the adjacent NERC (=RNRECD94 - RNDLVD94) (MWh)	
6	ANRECD94	1994 adjacent NERC's report of energy received from the reporting NERC (MWh)	
7	ANDLVD94	1994 adjacent NERC's report of energy delivered to the reporting NERC (MWh)	
8	ANNETI94	1994 net interchange of the adjacent NERC with the reporting NERC (=ANRECD94 - ANDLVD94) (MWh)	
9	MATCHN94	1994 NERC match flag to determine if RNNETI94 = - ANNETI94 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
10	SEQNR98	eGRID2000 1998 file NERC region sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#35 - EGNINT95 - 1995 NERC Interchange File

Field	Name	Description	Source(s)
1	NERC	NERC region acronym of reporting NERC region	
2	NERCADJ	NERC acronym of adjacent NERC region	
3	RNRECD95	1995 energy received by reporting NERC from the adjacent NERC (MWh)	
4	RNDLVD95	1995 energy delivered by reporting NERC to the adjacent NERC (MWh)	
5	RNNETI95	1995 net interchange of the reporting NERC with the adjacent NERC (=RNRECD95 - RNDLVD95) (MWh)	
6	ANRECD95	1995 adjacent NERC's report of energy received from the reporting NERC (MWh)	
7	ANDLVD95	1995 adjacent NERC's report of energy delivered to the reporting NERC (MWh)	
8	ANNETI95	1995 net interchange of the adjacent NERC with the reporting NERC (=ANRECD95 - ANDLVD95) (MWh)	
9	MATCHN95	1995 NERC match flag to determine if RNNETI95 = - ANNETI95 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
10	SEQNR98	eGRID2000 1998 file NERC region sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#36 - EGNINT96 - 1996 NERC Interchange File

Field	Name	Description	Source(s)
1	NERC	NERC region acronym of reporting NERC region	
2	NERCADJ	NERC acronym of adjacent NERC region	
3	RNRECD96	1996 energy received by reporting NERC from the adjacent NERC (MWh)	
4	RNDLVD96	1996 energy delivered by reporting NERC to the adjacent NERC (MWh)	
5	RNNETI96	1996 net interchange of the reporting NERC with the adjacent NERC (=RNRECD96 - RNDLVD96) (MWh)	
6	ANRECD96	1996 adjacent NERC's report of energy received from the reporting NERC (MWh)	
7	ANDLVD96	1996 adjacent NERC's report of energy delivered to the reporting NERC (MWh)	
8	ANNETI96	1996 net interchange of the adjacent NERC with the reporting NERC (=ANRECD96 - ANDLVD96) (MWh)	
9	MATCHN96	1996 NERC match flag to determine if RNNETI96 = - ANNETI96 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
10	SEQNR98	eGRID2000 1998 file NERC region sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#37 - EGNINT97 - 1997 NERC Interchange File

Field	Name	Description	Source(s)
1	NERC	NERC region acronym of reporting NERC region	
2	NERCADJ	NERC acronym of adjacent NERC region	
3	RNRECD97	1997 energy received by reporting NERC from the adjacent NERC (MWh)	
4	RNDLVD97	1997 energy delivered by reporting NERC to the adjacent NERC (MWh)	
5	RNNETI97	1997 net interchange of the reporting NERC with the adjacent NERC (=RNRECD97 - RNDLVD97) (MWh)	
6	ANRECD97	1997 adjacent NERC's report of energy received from the reporting NERC (MWh)	
7	ANDLVD97	1997 adjacent NERC's report of energy delivered to the reporting NERC (MWh)	
8	ANNETI97	1997 net interchange of the adjacent NERC with the reporting NERC (=ANRECD97 - ANDLVD97) (MWh)	
9	MATCHN97	1997 NERC match flag to determine if RNNETI97 = - ANNETI97 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
10	SEQNR98	eGRID2000 1998 file NERC region sequence number	

Table 1 (continued)
eGRID File Structure - 1996-2000
#38 - EGNINT98 - 1998 NERC Interchange File

Field	Name	Description	Source(s)
1	NERC	NERC region acronym of reporting NERC region	
2	NERCADJ	NERC acronym of adjacent NERC region	
3	RNRECD98	1998 energy received by reporting NERC from the adjacent NERC (MWh)	
4	RNDLVD98	1998 energy delivered by reporting NERC to the adjacent NERC (MWh)	
5	RNNETI98	1998 net interchange of the reporting NERC with the adjacent NERC (=RNRECD98 - RNDLVD98) (MWh)	
6	ANRECD98	1998 adjacent NERC's report of energy received from the reporting NERC (MWh)	
7	ANDLVD98	1998 adjacent NERC's report of energy delivered to the reporting NERC (MWh)	
8	ANNETI98	1998 net interchange of the adjacent NERC with the reporting NERC (=ANRECD98 - ANDLVD98) (MWh)	
9	MATCHN98	1998 NERC match flag to determine if RNNETI98 = - ANNETI98 (Y=Yes, matches perfectly, 1=Matches within 1%, 5=Matches within 5%, N=No match – if it has a deviation of more than 5%)	
10	SEQNR98	eGRID2000 1998 file NERC region sequence number	

* Differences among data years

- **!** NO_x, SO_2, CO_2, heat input, and net generation definitions changed for plant, State, EGC, and parent company levels from 1996/1997 to 1998/1999/2000 data years since only utility data were available previous to 1998.

- **!** NO_x, SO_2, CO_2, and heat input calculations changed for PCA, NERC, and US levels from 1996/1997 to 1998/1999/2000 data years because combined heat and power (CHP) plants were taken into account to reduce values for 1998, 1999, and 2000 data years.

- **!** NO_x, SO_2, and CO_2 calculations at all levels differed from 1996/1997 to 1998/1999/2000 data years because solid waste and biomass adjustment assumptions differed.

- **!** NO_x calculations at all levels differed from 1996/1997/1998 to 1999/2000 data years because renewable methane adjustment assumptions differed.

- **!** Mercury (Hg) emissions differ between data years 1998, 1999, and 2000 because 1999 mercury emissions were reported by EPA, and 2000 large municipal waste plants' mercury emissions were also collected by EPA, while 1998 and most 2000 mercury emissions were estimated.

- **!** Biomass and solid waste generation and resource mix are defined differently from 1996/1997 data years to 1998/1999/2000 data years.

See Technical Support Document for details on methodology changes.

APPENDIX B
PLANTS WITH CHANGES TO KEY VARIABLES IN 2000, NOT REFLECTED IN eGRID2002

Just prior to the release of eGRID2002 Version 2.0, EPA was notified of EIA 's release of an updated preliminary version of the EIA-860B for year 2000. This file, dated April 2003, is currently available on the EIA web site at www.eia.doe.gov/cneaf/electricity/page/eia860b.html. In addition to the inclusion of four new nonutility plants, for certain existing plants, the new EIA-860B data file contains revisions to key variables such as plant fuel type, fuel quantity, and useful thermal output; and gross generation and generator nameplate capacity. It was not practical to incorporate these data into this edition of eGRID. Instead, eGRID2002 Version 2.0 reflects nonutility data from EIA-860B data files from May 2002 along with subsequent updates by EIA. The revised data have been reviewed in order to provide the following list of EIA-860B facilities in 2000 for which the value of one or more key variables has been changed:

3 Mile Island (8011)
3200 Wildwood Plaza (54828)
5 AC Station (54995)
AES Shady Point Inc (10671)
AES Westover (2526)
Agrium Kenai Nitrogen Operations (54452)
Air Products & Chemicals Inc - Wilmingto (55557)
Albany Paper Mill (54944)
Alliant SBD 9302 Aegon NP (54967)
Altavista (10773)
Androscoggin Mill (54085)
Anna Platform (54440)
Ashdown (54104)
Aurora Energy LLC (797979)
Badger Filtration Plant (50147)
Bayonne Generating Station (2397)
Beaumont Refinery (50625)
Beaver Wood Joint Venture (10009)
Berry Placerita Cogen (52096)
Berry Cogen (50170)
Big Valley Lumber Co (10288)
Big Island (50479)
Biomass One LP (10869)
Black Hawk Station (55064)
Black River Power LLC Electric Generation Facility (10464)
BP (50540)
Brayton Pt (1619)
Bridgeport Station (568)
Broad River Energy Center (55166)
Brush Cogen Project Phase 2 BCP (10683)
Brush IV (55209)
Bucknell University (54333)
Bucksport Maine (50243)
California Institute of Technology (10262)

Calpine Newark Inc (50797)
Calvert Cliffs Nuclear Power Plant Inc (6011)
Cargill Inc Corn Milling Division (10855)
Carlis Corner (2379)
Carr Street Generating Station (50978)
CFI Plant City Phosphate Complex (50371)
Chevron Taft 26C (52085)
Chicago Plant (10732)
Chocolate Bayou Plant (10418)
*City of Sunnyvale Water Pollution Ctrl Plant (55771)
Clinton Power Station (204)
Coalinga Cogeneration Co (50131)
Cogentrix of Pennsylvania Inc (10383)
Cogentrix Southport (10378)
Colstrip (6076)
Continental Energy Associates (10870)
Cumberland (5083)
*Dane County LF #2 - Rodefeld (55770)
Decatur (10865)
Delta Person LLC (55039)
Derst Baking Co (50927)
Desert Peak Power Plant (10018)
Dickerson (1572)
Division (300)
Dome Project (54449)
Domino Sugar Corp - Baltimore Plant (54795)
Don Plant (50274)
El Cajon (301)
El Segundo Refinery (10213)
Enderlin (54908)
EQ Waste Energy Services Inc (50077)
Erving Paper Mills Inc (54228)
Expander Turbine (10475)
Exxon Mobil Co USA Baytown PP3 PP4 (10436)
Fairfield Works (50730)
Fitzapatrick (6110)
Flomaton Treating Facility (50727)
Gary Works (50733)
General Chemical (54318)
General Mills West Chicago (54924)
Georgetown Mill (54087)
Georgia Gulf Corporation Plaquemine Division (55051)
Gilbert (2393)
Gould Street (1553)
Greenville Electric Generating Station (55228)
H A Wagner (1554)
Hamakua Energy Plant (55369)
Hardee Power Station (50949)
Hawaiian Coml&Sugar Co (10604)
Hay Road (7153)

Heat Recovery Coke Facility (55066)
Hendricks Community Hospital (54731)
Hidalgo Smelter (54208)
HMP&L Station Two (1382)
Hope Creek Generating Station (6118)
Hopewell (10771)
I 95 Energy Resource Recovery Facility (50658)
IMC Agrico Co South Pierce Operations (10004)
IMC Agrico Co New Wales Operations (10434)
*Indian Orchard Plant (10417)
Indian Point 3 (8907)
Interstate Paper Corp Riceboro (54281)
Iowa State University (54201)
Kaweah Delta District Hospital (10042)
Kearny (303)
Kern River Cogeneration Co (10496)
Kimberly Mill (54885)
KMS Joliet Power Partners LP (55756)
Kyocera Project (10720)
Lamar Power Project (55097)
Livingston Generating Station (55102)
LTV Steel Cleveland Works (10398)
LTV Steel So Chicago Works (10399)
M A Patout Son Ltd (51008)
M&M Mars Chicago (54855)
Martinez Refining Co A Div of Equilon Enterprises LLC (54912)
McKee Refinery (50009)
Metro Wastewater Reclamation District (10180)
Miami Dade County Resources Recovery Fac (10062)
Micketon Station (8008)
Miramar (305)
Missouri River Wastewater Treatment Plant (55033)
Missouri Avenue (2383)
Mobile Mill (54092)
Mobile Energy Services Co LLC (50407)
Mon Valley Works (50732)
Morton Salt Rittman Facility (54335)
Naval Station (306)
Naval Training Center (6707)
Nelson Industrial Steam Co (50030)
Niagara Mill (54857)
Niagara Falls (50202)
North Island (307)
Northhampton Generating Co LP (50888)
NRG Middletown Operations Inc (562)
Ocean County Landfill (54980)
Oglesby (894)
Oxnard (50464)
Oyster Creek (2388)
Packaging Corp of America (50296)

Packaging Corp of America Tomahawk Mill (50476)
Pascagoula Facility TG 4225 (52084)
Pfizer Adams (54933)
Pfizer Inc (54236)
Pilgrim Nuclear Power Station (1590)
Plant C Caustic (50490)
Plymouth State College Cogeneration Facility (54803)
Potlatch Corp Minnesota Pulp Paper Board Div (50639)
Potlatch Corp Minnesota Wood Products Division (54061)
Power Station 3 (52131)
PPG Industries Inc Shelby NC Works 52 (54363)
Pt Comfort Operations (52069)
Purdue University (50240)
*Puyallup Energy Recovery Co LLC (55772)
Rice University (50054)
Rittman Paperboard (54235)
Riverwood International USA Inc (54464)
Rock Tenn Co (50919)
S D Warren Co 1 Muskegon (50438)
Salem Generating Station (2410)
San Antonio Community Hospital (50234)
San Diego State University (50061)
San Joaquin Cogen (50062)
Sargent Canyon Cogeneration Co (50864)
Sartell Mill (50252)
Savannah River Mill (10361)
Scott Wood Inc (50863)
Scrubgrass Generating Company LP (50974)
Seminole Mill (50803)
Sherman Avenue (7288)
Sherman Hospital (50909)
Somerset Plant (50406)
Sonora (54517)
South Georgia Medical Center (54848)
Southampton (10774)
SPSA Power Plant (54998)
State Farm Insurance Co ISC East (55274)
Stone Container Corp Uncasville (50801)
Sycamore Cogeneration Co (50134)
Tenaska Frontier Generation Station (55062)
The Hoover Company (55536)
Tilton (7760)
Tobaccoville Utility Plant (50221)
Tosco Wood River Refinery (50303)
Transalta Centralia Generation LLC (3845)
Trigen-Colorado Metro Facility Site (55630)
Tropicana Products Inc Bradenton Cogen (50971)
TXI Riverside Cement Power House (50557)
Tyrone (50284)
U S Alliance Coosa Pines (54216)

Valliant OK (50192)
Vicksburg Mill (54100)
Viking Energy of Northumberland (50771)
Walhalla (55638)
Warm Springs Forest Products Industries (50426)
Weirton Steel Corp (54344)
Welport Lease Project (54447)
Werner (2385)
Westbrook Energy Center (55294)
Westvaco Evadale (50101)
Weyerhaeuser Pine Hill Operations (54752)
Wheelabrator Hudson Energy Co (10037)
Williams Field Services Kutz Plant (54205)
Winnebago County Landfill Gas Recovery (50936)
Wisconsin Rapids Paper Mill (10466)
Wisconsin Rapids Pulp Mill (10477)

*These plants are newly added to the updated EIA-860B

Please note that the April 2003 version of the 2000 EIA-860B data files is still considered preliminary and could be subject to further changes, possibly affecting other plants as well. EIA's current EIA-860B data files for 1999 and 1998 are also considered preliminary.