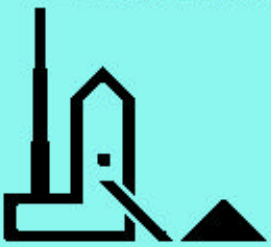
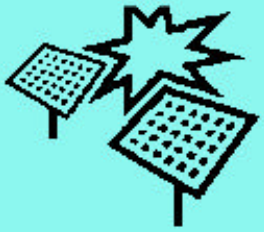
Users Manual

Emissions & Generation Resource Integrated Database



eGRID



Data Years 1996-2000

U. S. Environmental Protection Agency Office of Atmospheric Programs
Prepared by E.H. Pechan & Associates, Inc.

April 2003

NOTICES

This document has been reviewed by the Climate Protection Partnerships Division (CPPD), Office of Atmospheric Programs (OAP), U.S. Environmental Protection Agency (EPA), and approved for distribution.

This document is available to the public through CPPD.

ACKNOWLEDGMENTS

The eGRID system was conceived of by Rick Morgan, EPA Senior Energy Analyst in the Office of Atmospheric Programs. eGRID was developed under the leadership of Rick Morgan and E.H. Pechan & Associates, Inc.'s (Pechan's) Senior Data Analyst, Susy Rothschild, and received extensive Pechan support from Michael Cohen and able assistance from Jason Radgowski. The following other people have made major contributions to eGRID development: Pechan's Debbie Wozniak and Nell Silva, and EPA's Chloe Weil, Art Diem, and Sarah Calvillo. This document would not have been complete without the valuable support provided by Susy S. Rothschild, Michael L. Cohen, Jason Radgowski, and Debbie Wozniak of Pechan.

CONTENTS

INTRODUCTION

The Emissions & Generation Resource Integrated Database (eGRID) is a comprehensive data base of environmental attributes of electric power systems. eGRID is based on available plant-specific data for all U.S. electricity generating plants that produce electricity and report data to the U.S. government. Data reported includes generation (in MWh), resource mix (for renewables and nonrenewables), emissions (in tons for NO_x, SO_2, and CO_2; and in pounds for mercury), 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 in both pounds per gigawatt-hour [lbs/GWh] and pounds per billion Btu [lbs/BBtu] for mercury), 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 the following levels of aggregation:

- Boiler
- Generator
- Power Plant
- Electric Generating Company (EGC)
- Parent Company
- State
- North American Electric Reliability Council (NERC) Region
- Power Control Area (PCA)
- eGRID Subregions
- U.S. Total

Data for companies, parent companies, PCAs, eGRID subregions, and NERC regions are provided by default according to ownership of generating capacity; alternatively, data can be selected by plant location, without respect to ownership.

eGRID2002 includes nonutility power plants as well as utility-owned plants with data for years 1996-2000. From 1998 on, plant level data are available for both utility and nonutility plants. However, plant-specific data for most nonutility plants are not available for 1996 and 1997, due to the Energy Information Administration (EIA) policy with regard to confidentiality of nonutility data in place at that time.

eGRID2002's 1999 and 2000 data have been reconfigured to reflect the industry through December 31, 2002; 1998 data have been reconfigured to reflect the industry through December 31, 2000; and 1996 and 1997 data have been reconfigured to reflect industry changes through December 31, 1999. eGRID is assembled from a variety of data collected by the U.S. Environmental Protection Agency (EPA), EIA, and Federal Energy Regulatory Commission (FERC). Major electronic data sources include EPA's Emissions Tracking System/Continuous Emissions Monitoring (ETS/CEM), National Air Pollutant Emission Inventory (NEI) fossil fuel steam component, EPA Electric Utility Steam Generating Units Hazardous Air Pollutant Emission Study: 1999 Mercury Information Collection Effort (ICE) Data Base, the Year 2000 Big Municipal Solid Waste Combustor Emissions Data Base, EIA Forms EIA-759, -900, -767, -860A, -860B, -861, and FERC Forms FERC-423 and -714. A complete list of data sources is included in the eGRID2002 Technical Support Document, Section 2.

eGRID includes two data components to help track power flows between grid regions and between States. The Interchange data file reports interchange of electricity between adjacent power grid

regions, both for power control areas and NERC regions, for five consecutive years, 1994 through 1998. The estimated import/export data file reports estimated net annual imports (or exports) by State, for years 1994 through 2000. The above files can be accessed via the data browser through the power control area, NERC region, and State files, respectively. National totals for imports/exports appear in the U.S. Totals file, representing imports and exports with Canada and Mexico. These data can be useful for monitoring changes in electricity markets over time, including impacts on air emissions.

Although eGRID is based on existing data bases, 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 occasionally necessitated adjustments to values of individual data elements. In general, however, incorrect data have not been altered, except with regard to the relationship of plants to the power grid.

Three formats of eGRID2002 are available: (1) spreadsheet files; (2) a user friendly data browser[1], eGRID2002PC; and (3) a web-based version, eGRID2002 Online (forthcoming). This Users Manual is designed for use with eGRID spreadsheets and data browser only.

This Users Manual can be downloaded from EPA's Climate Protection Partnerships Division (CPPD) Clean Energy eGRID web site, http://www.epa.gov/cleanenergy/egrid; it is included in both the data browser downloadable file as well as the spreadsheets downloadable file. The eGRID2002 Users Manual applies primarily to all data years of both spreadsheet data and eGRID2002PC. For more details about all the data, see the eGRID2002 Technical Support Document.

[1]Called the "user interface" in some previous editions of eGRID.

eGRID2002 DATA BROWSER
(eGRID2002PC)

For those users who prefer a less computer knowledge-intensive method for accessing the data provided by eGRID2002, a user friendly PC system, eGRID2002PC, written in Visual Basic 6.0, is available. The system supports simple queries about the emissions, emission rates, fuel type generation, and resource mix of entities at the various aggregation levels.

Requirements

In order to install and run the eGRID2002PC, the following are recommended:

- IBM-PC compatible computer with Windows operating system;
- Hard drive with at least 80 MB free;
- Monitor display setting of 800x600 or greater; and
- CD-ROM of at least 8X speed (if installing from a CD).

Installation

The instructions below apply to PCs with the following operation systems: Windows XP, Windows 2000, Windows NT, Windows ME, Windows 98, and Windows 95. Please note that certain systems have special instructions specified below.

Web Download. Download the file eGRID2002browser+manual.ZIP from EPA's eGRID web site, http://www.epa.gov/cleanenergy/egrid. Extract the file eGRID2002PCsetup.EXE to your local hard drive. Next, double-click on eGRID2002PCsetup.EXE to extract all the files. Open the newly created subdirectory/folder called eGRID2002PCsetup. Only if your Windows version is Windows 95 do you first double-click on DCOM98 to install this utility. Double-click on SETUP.EXE (in eGRID2002PC setup), and follow the instructions to install the eGRID Data Browser, eGRID2002PC, on any hard drive on your own PC (not a server). After eGRID2002PC has been installed on the designated drive, select eGRID2002PC from the Start menu to begin using the data browser (you do not need to have Visual Basic installed on your computer). Note that README.TXT, a text file with installation directions, and eGRID2002UsersManual.PDF, the eGRID2002 Users Manual, will also be extracted from eGRID2002browser+manual.ZIP. Note that the eGRID Technical Support Document, eGRID2002techsupport.pdf, included in a zip named eGRID2002techsupport.zip, can also be downloaded from the web site.

CD-ROM. Insert the CD into the CD-ROM drive and view the CD Table of Contents screen. From this screen, you can choose to view (by checking the appropriate box) the Users Manual or Technical Support Document or eGRID spreadsheets for each year (that are on the CD). Any of these files can then be saved on your local hard drive. Or, you can choose to install the eGRID Data Browser. If you choose to install the data browser, click on this box unless your operating system is Windows 95. In this case, you need to first install DCOM98 by clicking on that box. (After this installation is complete, the computer will restart; put the CD back in the reader and when the Table of Contents screen comes up, choose to install the data browser.) After eGRID2002PC has been installed on the designated drive, select eGRID2002PC from the Start menu to begin using eGRID2002PC (you do not need to have Visual Basic installed on your computer). Note that during installation of the data browser, the eGRID Users Manual, the eGRID Technical Support Document, and the eGRID Excel spreadsheets will automatically be copied to the same directory folder on your local hard drive where the eGRID Data Browser is located.

Special Note for Windows XP/Windows 2000/Windows NT Installation Only. eGRID2002PC should work with any of these operating systems. However, you may be required to have administrator rights on the system in order to perform a successful installation. When installing on these systems, you may encounter some unexpected messages. For example, when unzipping the self-extracting file, you may receive an error message stating that the current operating system may not support long file names. This error message should be ignored. Or, upon running SETUP, your system may report that some DLLs need to be replaced with newer versions. After you replace them, your computer will restart. Note that it has not actually installed eGRID2002PC at this point, and you must run SETUP a second time to actually install eGRID2002PC.

To Run the eGRID2002PC. Select eGRID2002PC from the Start menu to begin using the eGRID Data Browser.

Starting Up

Upon starting the program you will see the Title screen, followed by a Help screen. Then, close the Help Screen to continue to the Main Selection Screen; from this screen all data can be accessed.

This user friendly eGRID Data Browser, the eGRID2002PC, will allow you to browse the emissions, emission rates, and fuel type generation of utilities and nonutilities at different aggregation levels, including boiler, generator, plant, state, electric generating company (EGC), power control area (PCA), eGRID subregion, NERC Region, and U.S. total. (Boiler and generator data may be accessed only from the plant level.) An overview of eGRID can be seen by clicking on 'Help' from any screen. Definitions of the terms used are displayed by clicking on ‘Definitions’ from the Help Screen.

eGRID2002 provides emissions and generation information for different strata of the power system, 1996 through 2000. 1999 and 2000 data are configured according to power industry structure as of December 31, 2002; 1998 data are configured as of December 31, 2000; and 1996 and 1997 data are configured as of December 31, 1999. eGRID data can be aggregated by power plant, State, company, power control area, eGRID subregion, NERC region, or United States total. To view eGRID data, follow these steps:

1. Select an ‘Aggregation Level’ from the choices at the left of the ‘Main Selection Screen’ (MSS); plant-level is the default. If you select a company or grid region, you then must select the aggregation method (location [operator]-based or owner-based). Then select the data year; 2000 is the default. A list of the selected entities will appear in a list at the right. Select one or multiple entities.
2. Or, to limit the scope of a search for entity(ies) to view within a particular region, State, or company, after you have selected an aggregation level (e.g., power plants), click on ‘Search Filters’ (the box or on menu), choose the data year, choose the category from which you wish to search (e.g., power plants in a single State), and then choose the specific entity within the category (e.g., Virginia) whose data are to be accessed (e.g., power plants in the State of Virginia).
3. To select the entities to be viewed from the list at the right of the MSS, there are three ways:
   - Highlight individual entities that you wish to view.
   - Using the ‘Find’ function, type a string of letters contained in the name of a particular entity. Then highlight the entity(ies) you wish to view.
   - If you wish to select all entities from the list, do not highlight any

entities; go on to the next step.

4. Click on 'Display Info' at the bottom of the MSS to view the data for the entities selected. Note that eGRID2002PC displays data from one selected entity at a time. Other Helpful Hints:
   - To return to a preceding screen, use the small 'X' in the top right corner to close the screen.
   - If multiple entities are selected, use 'Previous' and 'Next' to navigate among them.
   - To exit eGRID, return to the MSS, and either select 'Exit' from the File menu or use the small 'X' in the top right corner to close the screen.
   - To access the definitions, click the 'Definitions' button from the Help screen.
   - To print a screen, click the print icon.
   - To also view any other year besides the initially chosen year for any of the entities, you can select another year by clicking on the current year and selecting a different year from the pull-down list.
   - To return to the 'Help' screen, click on the 'Help' button from any screen.
   - After viewing one set of entities, you can select another set to view by first clicking the Reset button on the MSS.

Data displayed in eGRID are provided for informational purposes only. These data are not intended to serve as indicators of compliance with any environmental laws or regulations.

Selecting Entities

There are three different avenues for selecting entities whose data you wish to browse. All are done from the Main Selection Screen, after you have selected the data year. They are delineated below.

If you know the full name of the entity that you are looking for, scroll down and select that entity by clicking the left mouse button.

You can select multiple entities from the MSS by holding down the Ctrl key on the keyboard and selecting multiple entities by clicking the left mouse button. If there are units with duplicate names (for example, 'Riverside'), the State name will help you to differentiate. If you do not select any names, ALL will be chosen, so that when your results are displayed, you can click on the Previous and Next buttons to see them individually. (Note that selecting all of the entities at a given aggregation level may take a significant amount of time.)

If you know only part of an entity's name, use the Find function. Type the name, or portion of the name, into the box above the Find button on the MSS. Click on the Find button; a list of those units that match your search will appear. You can then select the entity or entities for which you are searching. To clear your search and return to the full list, click Reset.

If you wish to select from only those entities within a larger entity (i.e., power plants in a single State, power control areas [PCAs] in a single NERC region), you can do so using the Search Filters menu. First, select an aggregation level. Second, select the data year. Third, select the category from the Search Filters menu. Fourth, select the specific entity within the category from the drop down list. The list of entities will be filtered by your selection and will be displayed in the MSS list at the right. You can then select the entity or entities for which you are searching.

Once you have made your selection, click 'Display Info' to view the information which you have selected. A new screen displaying the data that you have requested will replace the MSS. This screen will display the Emissions Profile tab and any other tabs related to the entity or entities selected. For example, if the entity is power plants, there will be tabs for Emission Profile, Resource Mix, Plant Characteristics, Plant Ownership, Boilers, and Generators; while if parent company is the entity, the available tabs are Emission Profile, Resource Mix, and Notes (if applicable). Click on the small 'X' in the top right corner to close this screen and to return to the MSS. Click Next or Previous buttons to view any additional entities that you have selected.

Aggregation Method

Company and grid regions are aggregated in two ways: the location (operator)-based or the owner-based method. Thus, after selecting a company or grid region level, you must select an aggregation method before selecting the specific entities. Note, for example, that a company that owns but does not operate any plant would be included in the company owner-based list, but not in the company location (operator)-based list. For further information on the aggregation methods, see Definitions for "location (operator)-based" and "ownership-based."

Data Year

The data displayed initially are for the starting year: 2000. To view 1996, 1997, 1998, or 1999 data, select from the pull-down list to the right of "Data Year" while viewing the data for any of the entities. Although there are significant data element differences between 1996/1997, 1998, and 1999/2000 data, the screens are essentially uniform, so that variables not available in a given year will have an "N/A" (not applicable) value. While viewing a selected entity for a given data year, if you change the data year but that entity had no generation or emissions for that data year, a message will pop up explaining this. Note that comparisons among the five years should be made with care since different entities may comprise the aggregation (i.e., 2000 data may be aggregated differently from 1997 data, for example. For further information, see "Differences Between...Data.").

eGRID2002 SPREADSHEETS

The data reported in eGRID2002PC are based on a series of underlying data files that are in a data base format (*.DBF). The 1999 and 2000 data are displayed in 37 spreadsheets for each year; 1998 data files are displayed in 35 spreadsheets; the 1997 data are displayed in 13 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:

eGRID2002YRyy_plant:	A plant data workbook that contains a maximum of 8 spreadsheets (plant, boiler, generator, plant biomass adjustment file, 4 Note files).
eGRID2002YRyy_location:	A location (operator)-based data workbook that contains a maximum of 11 location (operator)-based spreadsheets (State, electric generation company, parent company, power control area, eGRID subregion, NERC region, U.S., 4 Note files).
eGRID2002YRyy_owner:	An owner-based data workbook that contains a maximum of 10 owner-based spreadsheets (electric generation company, parent company, power control area, eGRID subregion, NERC region, U.S., 4 Note files).

A fourth workbook, eGRID2002_powerflow, contains 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). These workbooks (for all years) will be included in a zip file, eGRID2002Spreadsheets.ZIP, along with the eGRID2002 Users Manual, eGRID2002UsersManual.PDF. The eGRID2002 Technical Support Document, eGRID2002techsupport.PDF, is included in a separate zip file, eGRID2002techsupport.ZIP. These zip files are downloadable from EPA's eGRID web site at http://www.epa.gov/cleanenergy/egrid. The spreadsheets, along with the data browser and documentation, may be made available on a CD-ROM provided by EPA.

All spreadsheets are not included for each data year. Specifically:

- For 1996, 1999, and 2000, there is no plant biomass adjustment file.
- For 1996 and 1997, there are no eGRID subregion files.
- For 1996, there is no location (operator)-based parent (holding) company file.

All of the eGRID2002 data displayed in the data browser are included in the spreadsheets, although some of the codes may be spelled out in the data browser for clarity. Some spreadsheet data are not shown in the data browser, including some plant characteristics and PCA and NERC region relationships.

Manipulation of eGRID Data

The aggregation data spreadsheets enhance the versatility of eGRID2002 by providing five years of data in a format that is transparent to data users and can easily be manipulated. Using common spreadsheet software such as Excel, users can view all the data underlying eGRID2002PC. They can also glean further information from eGRID by performing manipulation such as sorting (e.g., ranking the top ten), aggregating, disaggregating, averaging, and comparing.

Examples of Sorting and Ranking Plant Data

In the 1998, 1999, or 2000 plant file, EGRDPLNT, for example, the data user may wish to perform the following sorting or ranking operations:

- To view a list of plants by fuel type, use your spreadsheet's data/sort feature to sort on the variable PLPRIMFL.
- To view a list of CHP plants, sort (descending) on the variable CHPFLAG.
- To view a list of plants that have been sold to nonutilities, sort (descending) on the variable PREVUTIL.
- To separate utility from nonutility plants, sort on the variable PLTYPE.
- To view all plants in order of CO_2 emissions, sort (descending) on the variable PLCO2AN.
- To view all plants in order of output-based annual NO_x emission rate, sort (descending) on the variable PLNOXRTA.
- To view a list of plants that generate power from wind, sort (descending) on the variable PLGENAWI.

Similar sorting and ranking operations can be performed in other eGRID spreadsheets.

Sorting and Ranking Plant Level Data

Using the new auto filter feature (indicated by an arrow in the lower right-hand corner of the specified, contiguous, column headings) for all the data years' spreadsheets, you can do the following:

- Click on the arrow for a given column heading (for example, PLSO2AN in EGRDPLNT [a plant file]).
- Highlight "(Top 10...)" in the pull down menu.
- Click "OK" to the pop-up box (or change the "10" to any number you choose).
- View the Top 10 (or the number you chose) SO_2 plant emitters for that eGRID data year.

Hints for 1996 and 1997 Spreadsheets

For 1996 and 1997 data, when looking at the eGRID PCA and NERC operator files, the variables at the end (the rightmost column headings) whose names begin with 'NPC' include the nonutility PCA aggregate data for that PCA. If the user wants to know whether the regional data are actual aggregated data or estimated (wherever emission or fuel-type generation are not available for a given PCA due to EIA data suppression rules, eGRID estimates, using a ratio of nonutility capacity in the PCA to that in its NERC region), two variables from the EGRDPCAL file will answer this question: SUPPRER and SUPPRRM. If SUPPRER=0, then the PCA nonutility emissions are actual aggregated data; if SUPPRER=1, then the PCA nonutility emissions are estimated data; if SUPPRRM=0, then the PCA nonutility fuel type generation are actual aggregated data; if SUPPRRM=1, then the PCA nonutility fuel type generation are estimated values. If the plant is a utility plant, then the suppression flag variables are not applicable; thus, SUPPRER=9 and SUPPRRM=9.

Caution for Users of eGRID Spreadsheets

Some cautions are in order for users of eGRID spreadsheets. For data not available for a given year, the given value is "N/A" for "not applicable." The eGRID file structure specifies, for each variable, the data years for which values are provided.

Users should be aware that sorts and rankings could produce misleading results in some cases. eGRID relies on other Federal data sources that sometimes include inaccurate data, despite extensive quality checks. eGRID generally does not attempt to correct erroneous data that have been provided to other Federal data bases (although extensive QA/QC procedures have been followed to eliminate data inconsistencies). Incorrect data sometimes result in extreme values such as unrealistically high emission rates.

Because eGRID includes companies and plants of all sizes, extreme values may result when small plants or companies are included with large ones. Small companies or plants with unusual operating characteristics may stand out when a ranking such as emission rates is applied to the entire industry. More representative results may be achieved by applying a size threshold before ranking eGRID data.

Accessing Interchange Data from Form FERC-714

Due to resource constraints, EPA has not updated interchange data after 1998. Raw interchange data for subsequent years can be obtained from FERC-714 forms, on Part II, Schedule 5. In addition, a data base of interchange data derived from FERC-714 forms is commercially available from Platts Global Energy (www.platts.com).

Electronically scanned FERC-714 forms filed by power control areas and planning areas are available on-line at www.ferc.gov/ferris.htm.

For each power 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" and "delivered" but not "net" interchange, which must be calculated. (Schedule 5 is filed by control areas, but not by planning areas.) Interchange data between NERC regions must be developed by summing interchange data for all component control areas (as listed in eGRID).

CHANGES FROM PRIOR EDITIONS OF eGRID

This section delineates changes from prior editions of eGRID.

Differences Between 1996, 1997, 1998, 1999, and 2000 Data in eGRID2002

As the electric power industry is changing from year to year, so too are the eGRID aggregation levels. While a change may be clear when one plant's/boiler's/generator's data are included one year and not the other, some changes are less visible. For example, a plant's ownership or its operator may change from year to year; there is also plant movement from utility to nonutility status (and even an occasional vice versa); parent companies may include different subsidiaries and/or merge with other parent companies to form another parent company with a new name; and power control areas (PCAs) may merge or change NERC region affiliations. The 1996 and 1997 data were reconfigured to reflect industry changes as of December 31, 1999; the 1998 data in eGRID2002 were reconfigured to reflect plant divestitures, name changes, and corporate mergers through December 31, 2000; and 1999 and 2000 data have been reconfigured as of December 31, 2002.

At the plant level, changes are identified in the "ownership/plant type change" box as well as in the "change" field in the plant, electric generating company (EGC), parent company, and PCA spreadsheets. At higher aggregation levels, changes are identified in special "Note" tabs in eGRID2002PC as well as in special Note spreadsheets. Even if a plant or company's ownership or name has changed, its data for 1996 or 1997 can be viewed in eGRID2002PC. However, any temporal comparisons should be made with care.

State import/export data for seven consecutive years and PCA and NERC region interchange data for five consecutive years are two additional eGRID2002 components. These time series data help track power flows between regions.

eGRID2002 Features

eGRID2002 contains a number of features to improve its accuracy and usefulness compared to prior editions of eGRID. New features for 2002 include the following:

Changes in eGRID Data Elements

- An additional year (2000) of State Import/Export data have been included, along with those for data years 1994-1999.
- Beginning with 1998 data, plant-level data for nonutility plants are available.
- Emission rates at the company, State, PCA, eGRID subregion, NERC region, and US levels are reported not only for total generation but also for coal, oil, gas, and fossil-fuel only (coal, oil, or gas) generation. These fuel-type emission rates are based on assigning all emissions and generation from a plant to its coal, oil, or gas prime fuel category; aggregating these data; and then calculating rates using the appropriate algorithm. Note that for mercury, oil and gas emission rates are unavailable. Compared to an emission rate based on total generation, a fossil-only emission rate should provide a closer approximation of a marginal emission rate which may be needed for environmental analysis. Coal, oil, gas, and fossil-only emission rates are available via both the data browser and spreadsheets in eGRID2002.

- Mercury emissions for coal plants from EPA's 1999 Mercury ICE and the Year 2000 Large Municipal Solid Waste Combustor Emissions Data Base are included. 1998 mercury coal emissions are estimated by multiplying the 1999 emissions by the ratio of the plant's 1998 to 1999 coal tons. The 1998 mercury emissions are aggregated up to the U.S. level, and output and input emission rates at the various levels of aggregation are also calculated (in lbs, lbs/GWh, and lbs/BBtu). (The same procedure as used for 1998 is used for calculating 2000 mercury emissions.) Raw 1999 mercury coal emissions at the plant level may be found in the plant file under the variable PLHGAN for the 1999 data year. Raw 2000 mercury municipal solid waste combustor (MWC) emissions may also be found in the plant file under the variable PLHGAN for the 2000 data year; 1999 mercury MWC emissions are estimated in a manner similar to the way 1998 mercury coal emissions are estimated, but with MWC tons.
- For 1996 and 1997 data, there are distinct "solid waste/refuse" generation values. From 1998 data on, solid waste generation values are still included in the spreadsheets, but this generation is now split 70-30 between "biomass" and "other fossil" categories. Thus, solid waste is not explicitly included in the resource mix data.

New Features in eGRID2002's Data Browser

- From the Main Selection Screen, entities from any year of data can be accessed.
- From the Main Selection Screen, a list of entities displayed can be printed.
- From the Main Selection Screen's menu, import/export data (by year) and interchange data (for PCAs and NERC regions, by year) can be accessed.
- Screens have been standardized to be consistent across different years.
- While viewing the data and switching between the years of data or the owner-based and location (operator)-based levels of aggregation, the user is informed if some of the selected entities do not exist (for example, if an EGC exists only as an operator (location-based) and the user tries to switch to owner-based EGC data, a message will pop up).
- State and U.S. import/export as well as PCA and NERC region (configured to match 1998 data) interchange data can be accessed by data year from the top menu in the Main Selection Screen.
- Data aggregated to the eGRID subregion level (both owner- and location [operator]-based) can be viewed.
- Search filters relating to eGRID subregions have been added (for example, a search filter for all power plants in a single eGRID subregion).
- A search filter for power plants with a specified primary fuel type has been added.
- The search filter can be used to access data from every data year.
- When using an eGRID2002 CD-ROM, five choices will be given when initially inserting the CD: installing DCOM98 (a utility needed to run eGRID2002 and which you will not need to install if your operating system is Windows 98 or newer); installing the eGRID2002PC (the Data Browser); viewing the eGRID2002 User's Manual; viewing the eGRID2002 Technical Support Document; or viewing the eGRID2002 Excel spreadsheets. The CD also informs the users that they can copy the documentation and spreadsheets onto their hard drive.

Enhancements to eGRID2002's Spreadsheets

- The column headings in the spreadsheets have an arrow (designated as an auto filter), allowing creation of subsets of data based on the particular filter that you specify for that variable (e.g., "Top 10" in the SO_2 column).
- The four Note spreadsheets now include all changes from 1998 through December 31, 2002. There is one record per change (plant, EGC, parent company, and PCA); thus, if an EGC was renamed and became a subsidiary of a new parent company, there would be two records in the EGC Notes spreadsheet (EGRDEGCH).
- Although fuel type data for nonutility plants were not available from EIA for 1996 and 1997 data, eGRID identifies 138 nonutility plants that burn some coal to generate electricity, according to reports filed with EPA. This information is reported only via the "nonutility coal flag" variable, PLNUCOAL, in the Plant file for 1996 and 1997 data.
- Duplicate plants that were recently (February 2003) verified by EIA as duplicates were removed from the data files for all data years.

Methodology Changes

The method for estimating emissions for eGRID has changed for 1999 and 2000 data in two ways: biomass adjustments and CHP adjustments. NO_x emissions for renewable methane also changed for 1999 and 2000 data.

- Biomass adjustment - For 1996 and 1997 data, if a plant burned solid waste or biomass identified further as landfill methane, its CO_2, SO_2, and NO_x emissions are all adjusted to zero; for other biomass, only CO_2 emissions are adjusted to zero. But, for 1998 data and later, solid waste and biomass are handled differently. First, if solid waste generation is known to be nonorganic (e.g., tires), then all its generation is considered to be other fossil generation; otherwise, solid waste generation is split 70 percent biomass and 30 percent fossil. Then, for biomass, only CO_2 emissions are adjusted to zero because CO_2 would be otherwise released through decomposition. If the biomass is renewable methane (landfill gas or digester gas), then all of its emissions are adjusted to zero for 1998 data. For 1999 and 2000 data, the methodology is more refined: SO_2 emissions are still adjusted to zero because it is assumed that they are the same as with the flare; NO_x emissions, however, are not adjusted to zero, but are reduced (or offset) by the calculated emissions for a typical flare.
- CHP adjustment - For 1998 data and later, the last adjustment made to emissions accounts for cogeneration (CHP). For 1996 and 1997 data, combined heat and power plants are identified for utilities only; no adjustments are made. See the Technical Support Document for details.

Comparisons of 1998, 1999, and 2000 Data with 1996 or 1997 Data – A Cautionary Note

Some 1998, 1999, and 2000 data in eGRID2002 can be compared with 1997 and 1996 data, but users of eGRID2002 should note that temporal comparisons will be subject to certain limitations. These include:

- Comparisons cannot be made for plants, companies, or power control areas in one year that are not included in other years.
- Events such as company mergers, divestitures of plants to new owners, creation or elimination of power control areas (PCAs), and/or PCAs changing NERC region

affiliations may make direct comparison difficult.

- Emissions for CHP plants use a different methodology for 1998 and later from that for 1997 and 1996.
- Emissions for plants burning biomass use one methodology for 1996 and 1997 data, another methodology for 1998 and later data, and a refinement of the 1998 methodology for 1999 and 2000 data.
- Plant-specific data for most nonutilities are not available before 1998; thus, 1996 and 1997 nonutility data are excluded from all aggregation levels except for PCAs, NERC regions, and national totals.

Because these differences among 2000, 1999, 1998, 1997, and 1996 data could preclude direct comparability, eGRID users should use care in making temporal comparisons.

DEFINITION OF TERMS

The following eGRID terms and their definitions are alphabetized.

Adjacent PCA. Adjacent PCA is a power control area with a direct physical transmission connection to a PCA that has reported the interchange of energy with the adjacent PCA.

Biomass. Biomass is a fuel derived from organic matter such as wood and paper products, agricultural waste, or methane (e.g., from landfills). These materials are subject to the natural carbon cycle and therefore do not contribute to global warming. 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. Methane emissions from renewables (landfill methane and digester gas) are assigned zero emissions for all pollutants for 1996 through 1998 data; for 1999 and 2000 data, NO_x emissions from generation by landfill methane and digester gas are partially offset by the assumed emissions from flaring of the gas which otherwise would have occurred. Note that for 1997/1996 data, solid waste is treated separately and for data year 1998 and later, it is (partially) included in biomass. (See Solid Waste definition.)

British Thermal Unit (Btu). British thermal unit (Btu) is a standard unit for measuring heat energy equal to the quantity of heat required to raise the temperature of 1 pound of water by 1 degree Fahrenheit.

CO_2. Carbon dioxide (CO_2) is a product of fossil fuel combustion which is a dominant greenhouse gas believed to contribute to global climate change.

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. 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, 1998 and later electricity emissions for CHP are calculated using a different allocation factor than in prior years. (For further information, see the Methodology section of eGRID2002 Technical Support Document.) Data year 1998 and later CHP facilities are identified by the CHPFLAG variable in the EGRDPLNT spreadsheet; there is a note on the 'Plant' screen of the eGRID2002 Data Browser face that indicates a CHP plant. For 1997/1996 data, only utility cogenerators are identified with the COGENFLG variable, and no adjustments are made to reflect CHP. However, EIA adjustments to account for nonutility CHP are reflected in nonutility data at the PCA and NERC region levels.

eGRID Subregion. eGRID subregion represents a portion of the U.S. power grid that is contained within a single NERC region. eGRID divides the U.S. power grid into 27 different eGRID subregions, plus an "Off-Grid" category for plants that are not grid-connected. Most of eGRID's subregions consist of one or more power control areas (PCAs), except for the New York ISO, which has been divided into three geographic eGRID subregions. eGRID subregions generally represent sections of the power grid that have similar emissions and resource mix characteristics and may be partially isolated by transmission constraints. eGRID's subregions correspond in most cases to subregions used by the North American Electric Reliability Council (i.e., subregions of NERC regions) and to IPM® regions developed by ICF Consulting. You can view a map of the eGRID subregions in the data browser. 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)

For eGRID purposes, an additional subregion (Off-Grid) has been created to account for those nonutilities that are not connected to the grid.

Electric Allocation Factor. Electric allocation factor is used to allocate emissions from a combined heat and power (CHP) facility between electricity generation and useful thermal output. For CHP plants, beginning with data year 1998, emissions, heat input, and nominal heat rate are adjusted by the electric allocation factor. See discussion of CHP in eGRID2002 Technical Support Document for further information. The electric allocation factor has values only between 0 and 1 for CHP plants. For non-CHP plants or CHP plants whose data results in an electric allocation factor greater than one, eGRID uses an electric allocation factor of 1.

Electric Generating Company (EGC). Electric generating company (EGC) refers to a company that generates electricity and reports data to the U.S. government. An EGC may be a utility (either privately or publicly owned) or a nonutility. An EGC can refer to either an owner or an operator of a generating plant. Some EGCs are subsidiaries of larger EGCs known as parent companies. The eGRID2002 Data Browser includes both subsidiary and parent companies in the list of EGCs, with parent company names distinguished by an asterisk following the name. eGRID2002's EGC spreadsheets include data for subsidiary companies but not parent companies (both owner-based and location [operator]-based), while data for parent companies appear in separate spreadsheets.

Electric Utility. Electric utility refers to a corporation, agency, authority, or other legal entity that owns and/or operates electric generating capacity and has a designated franchised service area for the sale of

electricity and is usually subject to regulation by State and/or Federal ratemaking authorities.

Emissions Profile. The Emissions Profile screens of the eGRID2002 Data Browser display emissions and emission rates for all generation, including generation from nuclear and renewables as well as fossil fuels. Beginning with data year 1998, at all aggregation levels above the plant level, eGRID2002 also provides emission rates for fossil fuel generation only (all fossil fuels combined), as well as individual rates for coal, oil, and natural gas generation. For determination of these fuel-based emission rates, all of a plant's emissions, heat input, and generation are assigned by primary fuel type. For 1997/1996 data, most nonutility plants, emissions and generation data are not available because of the EIA confidentiality policy with respect to nonutility data.

The 'Emissions Source' information on the Emissions Profile tab provides the sources of emissions that are available at the plant level.

The possible data sources 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 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; and
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.

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.

Fossil Fuel. Fossil fuel refers to any naturally occurring organic fuel, such as oil, coal, and natural gas.

Heat Input. 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 heat input is adjusted by the electric allocation factor.

Heat Rate. Heat rate (in Btu/kWh) is the heat input divided by net generation and is a measure of the efficiency with which fuel is converted to electricity in a power plant. A plant's heat rate tends to vary depending on operating conditions; the heat rate reported in eGRID is nominal because it is measured

over the entire year. Beginning with 1998 data, for CHP plants, the eGRID 1998, 1999, and 2000 nominal heat rate is adjusted by the electric allocation factor. For 1997/1996 data, the heat rate variable, PLFSHTRT, is limited to utility fossil fuel plants.

Interchange Data. See definitions for Net Interchange and Adjacent PCA.

Joint Ownership. Where a power plant is jointly owned by one or more electric generating companies, eGRID assigns ownership to the individual companies, provided ownership shares are explicitly reported to EIA. However, joint ownership may be structured via a corporate entity such as a limited partnership (LP) or limited liability corporation (LLC) that does not report underlying ownership shares to EIA. Where such an entity is reported as a plant's sole owner to EIA, ownership is assigned to that entity in eGRID.

Location (operator)-based. 'Location (operator)-based' indicates a data aggregation method based on the physical location and operation of electric power generation and emissions without respect to the ownership of that generation. Thus, a plant's generation and emissions are assigned exclusively to the plant's operating company, and to its associated parent company, power control area, eGRID subregion, and NERC region. Location (operator)-based aggregation is useful for environmental analysis where the physical location of a generating plant and its proximity to the power grid is important. (Previous editions of eGRID used the terminology "operator-based" in place of "location-based".)

Megawatt (MW). Megawatt (MW) is an electrical unit of power capacity. It is used to measure electrical generating capacity or the loads of electrical consumers. One megawatt equals 1000 kilowatts (kW) or one million watts.

Megawatt-hour (MWh). Megawatt-hour (MWh) is an electrical energy unit of measure equal to 1 megawatt of power supplied to, or taken from, an electric circuit steadily for 1 hour. One megawatt-hour equals 1000 kilowatt-hours (kWh) or one million watt-hours (Wh).

Mercury (Hg). Mercury (Hg) is a toxic heavy metal that is a byproduct of the combustion of fossil fuels, especially coal. Mercury coal emissions for 1998 and 2000 are estimated values, based on EPA data for 1999 (included in the EGRDPLNT 1999 data year spreadsheet), adjusted to reflect each plant's actual coal consumption during the specific year in relation to 1999. Mercury emissions for large municipal solid waste combustors (MWC) are also available from EPA for year 2000 and are adjusted for a specific year other than 2000 based on MWC consumption in relation to 2000. Plant-specific mercury emissions data are available for coal-fired and large MWC plants only for 1998 through 2000; Hg data are not reported for other fuels. Aggregated mercury values, therefore, reflect only coal and large MWC generation.

Merger. Merger refers to a financial transaction where two previously separate companies have become affiliated within a single corporate entity. 1999 and 2000 data reflect mergers and other affiliation changes through December 31, 2002; 1998 data reflects the industry configuration through December 31, 2000; and 1996 and 1997 data are configured to reflect the industry as of December 31, 1999. Details regarding mergers, absorptions, new entities, and new company names can be found via the 'Note' tab on the 'Company' screen of the eGRID2002 Data Browser or the EGRDEGCH spreadsheet.

Municipal Solid Waste Combustors (MWC). See definition for solid waste.

NERC Region. 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 'HICC' for purposes of eGRID.) You can view a map of the NERC regions in the data browser. The 12 NERC region names 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 (HICC),
- 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).

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. For eGRID purposes, an additional NERC region (Off-Grid) has been created to account for those nonutilities that are not connected to the grid.

Net Exports. Net exports, in GWh, is the opposite (negative) of net imports. A positive value for estimated net exports means the State delivered more energy than it received.

Net Foreign Imports. Net foreign imports is the sum, in GWh, of all imports and exports into or out of the United States over a period of time, usually one year.

Net Imports. Net imports represents the net amount of energy, in GWh, imported into a State (or the U.S.), including foreign imports, measured in megawatt-hours. Because electricity flows are not usually measured on State borders, net imports must be estimated indirectly. Thus, all net imports values reported in eGRID are estimates rather than measured values. For each State, estimated net imports is derived from the relationship between total consumption and net generation, as explained in the Methodology section of the eGRID2002 Technical Support Document. A positive value for estimated net imports means the State received more energy than it delivered.

Net Interchange. Net interchange refers to energy received, in MWh, by a power control area (or NERC region) less energy delivered by that PCA (or NERC region) (as configured for 1998 data in eGRID2000) over a specific period of time. Net interchange represents the sum of net power flows across the border between two regions of the power grid. A positive value for net interchange means the reporting entity received more energy than it delivered during a given period.

Nonrenewables. Nonrenewables are exhaustible energy resources such as coal, oil, natural gas, and nuclear power.

Nonutility. 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. 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.

Notes. Notes for companies, parent companies, and PCAs provide information about configuration and name changes for 1998 data. There is a Note spreadsheet for each of the four entities. In eGRID2002PC, there is a 'Notes' tab. Some examples: if an EGC became a subsidiary of a parent company, a Note tab would be included for the company; if a new parent company was formed, a Note tab would be included for each company in the new parent company; and if a PCA changed NERC region affiliation, the PCA would display a Note tab. A given entity may have more than one note on the Note tab.

NO_x. Nitrogen oxides (NO_x) are a product of fossil fuel combustion and are a precursor to formation of ozone, or smog, and also contribute to acid rain and other environmental and human health impacts.

ORISPL. ORISPL is a unique plant (facility) code assigned by EIA.

Other Fossil. Other fossil includes generation from fossil fuel that cannot be categorized as coal, oil, or natural gas. This category – specified beginning with 1998 data – 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. See Resource Mix definition for more information.

Owner Type. There are eight possible owner types for an EGC. They are:

- 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.

Ownership-based. 'Ownership-based' or 'owner-based' indicates a data aggregation method based on the ownership of electric power generation and emissions without respect to its operator or physical location. Thus, a plant's generation and emissions are generally assigned to its owner(s) (according to their proportionate share of any jointly owned plant) and each owner's associated parent company, power control area, and NERC region in which the owner is located. However, for nonutility plants, the assignment of power control area, eGRID subregion, and NERC region in all cases is based on the utility service area through which the nonutility plant is connected to the grid. Ownership-based aggregation is useful for labeling electricity products in terms of emission rates and resource mix.

Ozone Season. 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.

Parent Company. Parent Company refers to a company (such as a holding company) that owns one or more operating subsidiaries or divisions 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 are found in separate parent company spreadsheets, rather than in the company (EGC) spreadsheets. A list of the subsidiary companies contained in a given parent company can be obtained through the Search Filters feature of the eGRID2002 Data Browser. 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, they are united by making them subsidiaries of a single parent company.

Percent Exports. Percent exports refers to a State's net exports as a percentage of the State's net generation. This value is meaningful only where net exports are positive.

Percent Imports. Percent imports refers to a State's net imports as a percentage of the State's total consumption. This value is meaningful only where net imports are positive.

Power Control Area (PCA). A 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 EIA-861 or FERC-714. For a nonutility plant, its PCA is determined by the reported utility service area in which it is located. eGRID2002 includes more than 100 actual PCAs for each year, ranging in size from small municipal utilities such as Lincoln Electric System, to large power pools such as the 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 which 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 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. For further details, see the Technical Support Document.

A diagram depicting current 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.

Power to Heat Ratio. Power to heat ratio in a CHP facility is the ratio of heat value of electricity generated (3412 $*$ kWh output) to the facility's useful thermal output.

Renewable Methane. 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 CO_2 and SO_2 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; NO_x emissions are partially offset by the assumed emissions from flaring in absence of electricity generation.

Renewables. 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.

Resource Mix. The resource mix for a given entity appears on the Generation Resource Mix tab in the eGRID2002 Data Browser. Resource mix is a collection of resources, including fossil fuels (e.g., coal oil, and natural gas), nuclear energy, and renewable energy sources (e.g., hydro, solar, wind, geothermal, and biomass) that are used to generate electricity, with a percentage assigned to each resource or group of resources. For 1997 and 1996 data, three separate categories – Unspecified Renewables, Unspecified Fossil, and Solid Waste – are included in the resource mix; from 1998 on, Other Fossil is included as a separate Resource Mix category. When a plant utilizes more than one fuel or resource type, eGRID assigns generation according to the contribution of each individual resource type, to the extent possible.

SO_2. Sulfur dioxide (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.

Sold Plants. Sold plants are power plants where all or part of the plant has been sold or transferred from a utility to a nonutility after 1997. For 1998 data, changes in ownership through December 31, 2000 are indicated. Changes in ownership through December 31, 2002 are reflected in eGRID2002 for 1999 and 2000 data. Details on sold plants can be accessed via the 'Plant Ownership' tab of the 'Plant' screen of the eGRID2002 Data Browser or in the EGRDPLCH spreadsheet.

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). Beginning with 1998 data, 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. For 1998 data, 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 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 factors. Plant-specific mercury emissions are currently available for large solid waste facilities (also called municipal solid waste combustors [MWC]) for year 2000 and are estimated for year 1999. Note that eGRID uses a different solid waste methodology for years prior to 1998, for which nonutility plant specific data are not available. For 1997/1996 data, solid waste is considered a separate category, and although solid waste combustion does produce emissions, eGRID assigns zero emissions to electricity generation from solid waste based on the assumption that incinerators produce emissions whether or not they generate electricity. For further information, see the Methodology section of eGRID2002 Technical Support Document.

State Import/Export Data. See definitions for Net Exports, Net Imports, Net Foreign Imports, Percent Exports, and Percent Imports.

Total Consumption. Total consumption is the total amount of electricity consumed within a given State, in GWh, excluding nonutility energy furnished without charge. This value includes utility sales, unregulated sales, energy used by utility electric departments, and utility energy furnished without

charge.

Unspecified Fossil. Unspecified fossil, for 1996 and 1997 data, includes nonutility generation from coal, oil, and natural gas that could not be categorized due to EIA data confidentiality policy. 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.

Unspecified Renewables. Unspecified renewables, for 1996 and 1997 data, include nonutility generation from biomass, geothermal, solar, and wind resources that could not be categorized due to EIA data confidentiality policy.

Useful Thermal Output. Useful thermal output refers to the amount of heat produced in a CHP facility that is used for purposes other than making electricity. Useful thermal output is measured in million Btus (MMBtu).

Utility Service Area. 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. For nonutility plants, the associated PCA is determined by the utility service area, not the operator or owner (as is the case for utility plants).

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.

eGRID File Structure - Combined Years
#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
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

eGRID File Structure - Combined Years
#1 - EGRDBLR Boiler File (continued)

Field	Name	Description	Source(s)	Data Years				
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

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.

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

eGRID File Structure - 1996-2000
#3 - EGRDPLNT Plant File (continued)

Field	Name	Description	Source(s)	Data Years				
39	PSFLG	Plant pumped storage flag	EIA-860A	96	97	98	99	00
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

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

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.

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
35	STOSO2RT	State oil annual SO_2 output emission rate (lbs/MWh)				98	99	00

eGRID File Structure - 1996-2000
#4 - EGRDST State File (continued)

Field	Name	Description	Source(s)	Data Years				
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
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

eGRID File Structure - 1996-2000
#4 - EGRDST State File (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
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

eGRID File Structure - 1996-2000
#5 - EGRDEGCO Electric Generating Company File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
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

eGRID File Structure - 1996-2000
#6 - EGRDEGCL Electric Generating Company File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
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

eGRID File Structure - 1996-2000
#7 - EGRDPRO Parent Company File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
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

eGRID File Structure - 1996-2000
#8 - EGRDPRL Parent Company File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
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

eGRID File Structure - 1996-2000
#9 - EGRDPCAO Power Control Area File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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
35	PCONXORT	PCA oil ozone season NO_x output emission rate (lbs/MWh)				98	99	00

eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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
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

eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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			
103	NPCSO2	PCA nonutility aggregated annual SO_2 emissions (tons)		96	97			
104	NPCCO2	PCA nonutility aggregated annual CO_2 emissions (tons)		96	97			

eGRID File Structure - 1996-2000
#10 - EGRDPCAL Power Control Area File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
64	SRGENAOL	eGRID subregion annual oil net generation (MWh)				98	99	00

eGRID File Structure - 1996-2000
#11 - EGRDSRO Subregion File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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

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

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
64	SRGENAOL	eGRID subregion annual oil net generation (MWh)				98	99	00

eGRID File Structure - 1996-2000
#12 - EGRDSRL Subregion File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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

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

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
66	NRGENABM*	NERC annual biomass/wood net generation (MWh)		96	97	98	99	00

eGRID File Structure - 1996-2000
#13 - EGRDNRCO NERC Region File [Owner-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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
66	NRGENABM*	NERC annual biomass/wood net generation (MWh)		96	97	98	99	00

eGRID File Structure - 1996-2000
#14 - EGRDNRCL NERC Region File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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			
100	NNRNRTA	NERC nonutility aggregated average annual NO_x rate (lbs/MWh)			97			

eGRID File Structure - 1996-2000
#14 - EGRDNRCL NERC Region File [Location-Based] (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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
36	USCCO2RT	U.S. coal annual CO_2 output emission rate (lbs/MWh)				98	99	00

eGRID File Structure - 1996-2000
#15 - EGRDUS U.S. Totals File (continued)

Field	Name	Description	Source(s)	Data Years				
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
71	USGENAFS	U.S. annual unspecified fossil net generation (MWh)		96	97			
72	USGENARW	U.S. annual unspecified renewable net generation (MWh)		96	97			

eGRID File Structure - 1996-2000
#15 - EGRDUS U.S. Totals File (continued)

Field	Name	Description	Source(s)	Data Years				
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.

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

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

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

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

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

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	

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	

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	

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	

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	

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	

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	

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)	

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	

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	

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	

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	

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	

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	

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	

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	

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	

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.