

EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA Using IPM

Incremental Documentation

December, 2016

1. Introduction

This document describes the updates to the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA using Integrated Planning Model (IPM) incremental to the EPA Base Case v.5.13 that was developed by the U.S. Environmental Protection Agency (EPA) with technical support from ICF International, Inc.

This document is a supplemental summary of changes from v.5.13 to v.5.16 2015 Ozone NAAQS Transport NODA Base Case. For additional information pertaining to all other sections not identified here, please consult the EPA Base Case v.5.13 documentation (see <http://www.epa.gov/airmarkets/programs/ipm/index.html>). This document follows the identical nomenclature for EPA Base Case v.5.13 documentation. The revised sections, tables and figures are given below.

For ease of use, this document also differentiates updates in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA relative to EPA Base Case v.5.15 which was released in September 2016 (see <https://www.epa.gov/airmarkets/power-sector-modeling>). Table 1-1 that lists updates in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA incremental to EPA Base Case v.5.13 and also differentiates the updates that were already included in EPA Base Case v.5.15.¹

The EPA Base Case v.5.16 2015 Ozone NAAQS Transport NODA is projections of electricity sector activity that takes into account federal and state air emission laws and regulations whose provisions were either in effect or enacted and clearly delineated at the time the base case was finalized (prior to publication of this documentation), in addition to two non-air federal rules that affect EGUs. Section 3.9 contains a detailed discussion of the environmental regulations included in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA, which is summarized below.

- EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA include the Cross-State Air Pollution Rule (CSAPR) Update Rule, a federal regulatory measure for addressing transport under the 1997 and 2006 National Ambient Air Quality Standards (NAAQS) for ozone and fine particles.
- EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA include the Clean Power Plan (CPP), a federal regulatory measure to cut carbon pollution from existing power plants.
- EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA include 111b federal regulatory measure to cut carbon pollution from the new power plants.
- EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA include the Mercury and Air Toxics Rule (MATS),² which was finalized in 2011. MATS establishes National Emissions Standards for Hazardous Air Pollutants (NESHAP) for the “electric utility steam generating unit” source category.

¹ The EPA Base Case v.5.15 was an incremental update from the EPA Base Case v.5.14. Since that update occurred between the v5.13 Base Case and the v5.15 CSAPR Update Rule Case Cases, those incremental updates are reflected in this documentation.

² On June 29, 2015, the U.S. Supreme Court reversed a portion of the U.S. Court of Appeals for the D.C. Circuit (D.C. Circuit) decision upholding the Mercury and Air Toxics Standards (MATS). *Michigan v. EPA*, 135 S.Ct. 2699 (2015).

- EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA include current and existing state regulations. A summary of these state regulations can be found in Table 3-13.
- EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA also reflect the final actions EPA has taken to implement the Regional Haze Rule. This regulation requires states to submit revised State Implementation Plans (SIPs) that include (1) goals for improving visibility in Class I areas on the 20% worst days and allowing no degradation on the 20% best days and (2) assessments and plans for achieving Best Available Retrofit Technology (BART) emission targets for sources placed in operation between 1962 and 1977. Since 2010, EPA has approved SIPs or, in a very few cases, put in place regional haze Federal Implementation Plans for several states. The BART limits approved in these plans (as of August, 2014) that will be in place for EGUs are represented in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA.

EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA also includes two non-air federal rules affecting EGUs: Cooling Water Intakes (316(b)) Rule and Coal Combustion Residuals from Electric Utilities (CCR), both promulgated in 2014.

Table 1-1 lists updates included in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA incremental to EPA Base Case v.5.13. Updates that are highlighted in gray were new in the EPA 5.16 Base Case incremental to EPA Base Case v.5.15.

Table 1-1 Updates in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA incremental to EPA Base Case v.5.13

Description	For More Information	Change Type
Power System Operation		
AEO NEMS region level electricity demand is disaggregated to IPM model region level	Section 3.2	Adding information
Electricity Demand Assumptions	Table 3-2, Table 3-3	Update
NO _x Emission Rates for Units with Common Stacks	Section 3.9.2	Adding Information
CSAPR Update Rule, CPP, 111b, H.R. 2029, 316(b) and CCR (in addition to MATS, BART) are part of Base Case	Section 3.9.3	Update
AB 32 Regulation	Section 3.9.4	Update assumption
Emission and Removal Rate Assumptions for Potential (New) Units in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 3-12	Updated assumption
Updated State Power Regulations included in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 3-13	Update
Updated NSR Settlements included in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 3-14	Update
Updated State Settlements included in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 3-15	Update
Updated Citizen Settlements in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 3-16	Update
Updated Renewable Portfolio Standards and Solar Carve-Outs	Table 3-17	Update
Updated BART Regulations included in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 3-19	Update
Generating Resources		
Cost and Performance Characteristics of Existing Units	Section 4.2.7	Adding Information
Planned-Committed Units: Online and Retirement Year	Section 4.3.4	Update

Description	For More Information	Change Type
Updated Data Sources for NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-1	Update
Updated Rules Used in Populating NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-2	Update
Updated Summary Population (Through 2015) of Existing Units in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-3	Update
Updated the Hierarchy of Data Sources for Capacity in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-4	Update
Updated Data Sources for Unit Configuration in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-6	Update
Updated Aggregation Profile of Model Plants	Table 4-7	Update
Updated Summary of Planned-Committed Units in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-11	Update
Updated Planned-Committed Units by Model Region in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-12	Update
Updated Performance and Unit Cost Assumptions for Potential (New) Capacity from Conventional Technologies in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-13	Update
Updated Short-Term Capital Cost Adders for New Power Plants	Table 4-14	Update
Updated Performance and Unit Cost Assumptions for Potential (New) Renewable and Non-Conventional Technology Capacity	Table 4-16	Update
Updated Representative Wind Generation Profiles	Table 4-20	Update
Updated Onshore Reserve Margin Contribution and Average Capacity Factor by Wind Class	Table 4-21	Update
Updated Offshore Shallow Reserve Margin Contribution and Average Capacity Factor by Wind Class	Table 4-22	Update
Offshore Deep Reserve Margin Contribution and Average Capacity Factor by Wind Class	Table 4-23	Update
Updated Representative Solar Generation Profiles	Table 4-28	Update
Updated Solar Reserve Margin Contribution and Average Capacity Factor	Table 4-29	Update
Updated Nuclear Upgrading	Table 4-33	Update
Updated Characteristics of Existing Nuclear Units based on NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-34	Update
Updated Capacity not Included based on EIA 860 in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-35	Update
Updated the Capacity not included due to recent announcements in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA	Table 4-36	Update
Added Potential New Powered Dams	Table 4-37	Added Information
Added Potential New Stream Development	Table 4-38	Added Information
Added Information on Variable O&M and Fixed O&M Cost Approach	Section 4.2.7	Added Information
Emission Control Technologies		
Added description of CO ₂ From FGD and DSI Systems	Section 5.1	Adding Information
Post-Combustion NO _x Control Operation and NO _x Rate Updates to Reflect 2015 Behavior at Select Units	Section 5.2	Adding Information
Set-Up Parameters and Rules		
Run Years and Analysis Year Mapping	Table 7-1	Update
Trading and Banking Rules	Table 7-4	Update
Coal		
Coal Exports	Table 9-19	Update
Residential, Commercial, and Industrial Demand	Table 9-20	Update
Coal to Liquids Demand	Table 9-21	Update
Coal Transportation Matrix	Table 9-23	Update

Description	For More Information	Change Type
Coal Supply Curves	Table 9-24	Update
Natural Gas		
Updated List of Key Pipelines	Table 10-3	Update
Updated U.S. and Canada Natural Gas Resources and Reserves	Table 10-4	Update
Updated Exploration and Development Assumptions	Table 10-5	Update
Updated Resource Cost Curves at the Beginning of Year 2015	Figure 10-7	Update
E&D and Production Technology Improvement Factor	Figure 10-9	Update
Updated Incremental E&D Cost (BOY 2015) by Percentage of Dry Gas Resource Found	Figure 10-10	Update
Drilling Rig Speed Constraint	Figure 10-11	Update
Updated North American LNG Supply Curves	Figure 10-12	Update
Updated North American LNG Regasification Facilities Map	Figure 10-13	Update
Updated Examples of Firm Demand Curves by Electric Load Segment	Figure 10-14	Update
Updated Examples of Interruptible Demand Curves by Electric Load Segment	Figure 10-15	Update
Updated LNG Export Assumptions	Figure 10-16	Update
Updated Example Pipeline Discount Curve	Figure 10-18	Update
Updated Crude Oil and NGL Prices	Figure 10-22	Update
Other Fuels and Fuel Emission Factors		
Fuel Oil Prices by NEMS Region	Table 11-1	Update
Others		
Preventing the Immediate Retirement of Hardwired C2G, Ramping	N/A	Update
HCl Emissions from Lignite and Subbituminous Coals Reflecting Impact of Ash Chemistry	N/A	Update

Section 3.2

Methodology to Downscale AEO 2016 Electricity Demand to EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA IPM Regions

Electricity demand projections are input at the model region level in IPM. The 22 NEMS regions level electricity demand from AEO 2016 adjusted for CPP related energy efficiency is downscaled to 64 EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA IPM regions. This downscaling methodology preserves the sub regional demand projections from AEO 2016 and is summarized below.

Step 1: Map the Balancing Authorities/ Planning Areas in the US to the 22 NEMS regions and the 64 IPM regions. The mapping was facilitated by the fact that AEO 2016 adopted the EGRID regions and EPA detailed the constituent utilities within each of the 22 EGRID regions.

Step 2: Use year 2007 Balancing Authority level Net-Energy-for-Load data from 2007 Form 714 dataset and ISO/RTO reports in combination with the mapping developed in Step 1 to develop NEMS-to-IPM region load sharing factors.

Step 3: Apply the NEMS-to-IPM region load sharing factors from Step 2 to AEO 2016 NEMS region level Net-Energy-for-Load projections to estimate the 64 IPM region level demand projections.

Table 3-2 Electric Load Assumptions in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Year	Net Energy for Load (Billions of KWh)
2020	4,063
2023	4,065
2025	4,064
2028	4,086
2030	4,115
2035	4,227
2040	4,441
2045	4,643

Table 3-3 National Non-Coincidental Net Internal Demand in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Year	Peak Demand (GW)
	Annual
2020	727
2023	726
2025	726
2028	732
2030	741
2035	770
2040	815
2045	853

Section 3.9.2

NO_x Emission Rates for Units with Common Stacks

The reported ETS NO_x emissions and emissions rate data for units that share a common stack typically reflect an average of emissions and emission rates across all units that share the common stack. This can include instances where one or more units sharing a common stack are equipped with a SCR and one or more units are not. Because the emissions are measured at the stack, the emission rate for the SCR and non-SCR equipped units are typically reported as being similar, even if at the unit level they are not. This can create the appearance of SCRs being operated at reduced efficiencies, even if they are not. In instances where SCRs were retrofit on one of the units after 2011, the non-SCR equipped unit was represented with a NO_x emissions rate equal to the 2011 emissions rate and the SCR equipped unit was represented with a 0.070 lbs/MMBtu emissions rate, matching IPM's assumption for emission rates achieved with recent SCR retrofits. This represents no change from how these units were previously represented in NEEDS.

For units with SCRs built in 2011 or earlier and share a common stack with a non-SCR equipped unit, there is no reliable data to determine the emission rates of the individual units. Therefore, for the Illustrative and Final CSAPR Update Base Cases, the EPA assumed that SCR-equipped units sharing a common stack with non-SCR equipped units would have emission rates equal to 0.075 lbs/MMBtu. This is a conservatively low rate which implies that these units cannot achieve any additional reductions. The EPA then recalculated the NO_x emission rate for the non-SCR equipped unit, such that the capacity weighted emissions rate of the units sharing the common stack would be equal to the capacity weighted emissions rate calculated from the ETS data. The table below shows the updated emission rates for units sharing common stacks.

Recalculated NO_x Emission Rates for SCR Equipped Units Sharing Common Stacks with Non-SCR Units

Plant Name	UniqueID	Capacity (MW)	SCR?	SCR Online Year	Updated NEEDS NO _x Rates (v5.15 CSAPR Update Base Cases- Illustrative and Final Cases only)				Notes
					Mode 1 NO _x Rate	Mode 1 NO _x Rate	Mode 1 NO _x Rate	Mode 1 NO _x Rate	
Ghent	1356_B_2	484			0.2719	0.2719	0.2719	0.2719	
Ghent	1356_B_3	480	SCR	2004	0.0750	0.0750	0.0750	0.0750	
Elmer Smith	1374_B_1	140	SCR	2000	0.0750	0.0750	0.0750	0.0750	
Elmer Smith	1374_B_2	267			0.3721	0.3721	0.3721	0.3721	
Chalk Point LLC	1571_B_1	331	SCR	2009	0.0750	0.0750	0.0750	0.0750	
Chalk Point LLC	1571_B_2	336			0.3478	0.3478	0.3478	0.3478	
Sibley	2094_B_1	47			0.6616	0.6616	0.6616	0.6616	
Sibley	2094_B_2	46			0.6616	0.6616	0.6616	0.6616	
Sibley	2094_B_3	335	SCR	2009	0.0750	0.0750	0.0750	0.0750	
FirstEnergy W H Sammis	2866_B_5	300			0.2520	0.2520	0.2520	0.2520	
FirstEnergy W H Sammis	2866_B_6	600	SCR	2010	0.0750	0.0750	0.0750	0.0750	
FirstEnergy W H Sammis	2866_B_7	600	SCR	2010	0.0750	0.0750	0.0750	0.0750	
Charles R Lowman	56_B_1	80			0.8647	0.8647	0.5645	0.5645	M1/M2 were recalculated; M3/M4 are the state-of-the-art rate after recalculation
Charles R Lowman	56_B_2	235	SCR	2008	0.0750	0.0750	0.0750	0.0750	
Crist	641_B_4	75			0.2979	0.2979	0.2979	0.2979	
Crist	641_B_5	75			0.2979	0.2979	0.2979	0.2979	

					Updated NEEDS NO _x Rates (v5.15 CSAPR Update Base Cases- Illustrative and Final Cases only)				
Plant Name	UniqueID	Capacity (MW)	SCR?	SCR Online Year	Mode 1 NO _x Rate	Mode 1 NO _x Rate	Mode 1 NO _x Rate	Mode 1 NO _x Rate	Notes
Crist	641_B_6	291	SCR	2012	0.2979	0.0700	0.2979	0.0700	SCR on line 2012, so change M2/M4 to default 0.07
Crist	641_B_7	465	SCR	2004	0.0750	0.0750	0.0750	0.0750	
Hammond	708_B_1	110			0.3222	0.3222	0.3222	0.3222	
Hammond	708_B_2	110			0.3222	0.3222	0.3222	0.3222	
Hammond	708_B_3	110			0.3222	0.3222	0.3222	0.3222	
Hammond	708_B_4	510	SCR	2002	0.0750	0.0750	0.0750	0.0750	
Gorgas	8_B_10	703	SCR	2002	0.0750	0.0750	0.0750	0.0750	
Gorgas	8_B_8	161			0.5105	0.5105	0.5105	0.5105	
Gorgas	8_B_9	170			0.5105	0.5105	0.5105	0.5105	
Clifty Creek	983_B_4	196	SCR	2003	0.0750	0.0750	0.0750	0.0750	
Clifty Creek	983_B_5	196	SCR	2003	0.0750	0.0750	0.0750	0.0750	
Clifty Creek	983_B_6	196			1.0041	1.0041	1.0041	1.0041	
Chesterfield	3797_B_3	98			0.2228	0.2228	0.2228	0.2228	
Chesterfield	3797_B_4	162	SCR	2003	0.0750	0.0750	0.0750	0.0750	
Chesterfield	3797_B_5	325	SCR	2003	0.0750	0.0750	0.0750	0.0750	

Section 3.9.3

Tax Credit Extensions for Wind and Solar Builds

The tax credit extensions for new Solar and Wind units included in H.R. 2029, the Consolidated Appropriations Act of 2016 are implemented through reductions in capital costs. These tax credits are now based on the construction start date. Since IPM builds capacity on a run year basis and the capacity is available at the start of the run year, the year 2019 tax credits are assigned to the 2020 run year builds for solar PV units and the average of 2016 & 2017 tax credits are assigned to the 2020 run year builds for wind and solar thermal units.

Carbon Pollution Standards for New, Modified and Reconstructed Power Plants

The Carbon Pollution Standards for New, Modified and Reconstructed Power Plants apply to brand new sources built in the future or to an existing unit that meets certain, specific conditions described in the Clean Air Act and implementing regulations for being “modified” or “reconstructed.” EPA established separate standards for two types of fossil-fuel fired sources: stationary combustion turbines, generally firing natural gas; and electric utility steam generating units, generally firing coal. All new capacity projected by the model is compliant with these standards. For more information, see <https://www.epa.gov/cleanpowerplan/carbon-pollution-standards-new-modified-and-reconstructed-power-plants>.

Clean Power Plan

The Clean Power Plan (CPP) is included in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA. For more information on CPP, go to <https://www.epa.gov/cleanpowerplan/regulatory-actions#regulations>. CPP representation in EPA Base Case v.5.16 is similar to the illustrative mass-based plan that was included in the CPP RIA. In the model, the mass-based plan approach requires affected sources in each state to limit their aggregate emissions not to exceed the mass goal for that state, and banking of emissions reductions is now fully enabled within each state. Also, electricity savings in each model run-year for each state are included, reflecting demand-side energy efficiency improvements that are assumed to occur in response to the CPP. The quantification of these data is explained in the Demand-Side Energy Efficiency TSD for the CPP.

The modeling also offers coal steam model plants a heat rate improvement option that is fully integrated into the IPM modeling framework. This capability enables IPM to solve for the optimal deployment of heat rate improvement (HRI) technologies on a plant-by-plant basis, and assumes \$100/kW as a combined capital cost to achieve the HRI levels.³ Additionally, in this representation, affected sources include existing fossil steam boilers with nameplate capacity greater than 25 MW and existing NGCC units. Additionally, this representation includes a 5 percent set-aside of allowances that would be allocated to recognize deployment of new renewable capacity, which is represented by lowering the capital cost of new renewable capacity in a compliance period by the estimated value of the allowances in the set-aside in that period. The value of the set-aside is estimated in each model run year as the total allowances in the set-asides of each state in the contiguous U.S. multiplied by the projected average allowance price over the contiguous U.S. for that year. This total value is then assumed to apply evenly to all new renewable capacity.

³ EPA has conducted a thorough technical assessment of the engineering and cost parameters of potential heat rate improvements that reduce auxiliary power and fuel consumption so as to increase net electrical output per unit of heat input (i.e., heat rate). EPA has relied upon an analysis of historical data, as well as several recent studies that have examined opportunities for efficiency improvements as a means of reducing heat rate and emissions from coal-fired power plants (for more information, see chapter 2 of the Greenhouse Gas Mitigation Measures Technical Support Document (TSD)). The EPA’s analysis finds that on average, coal steam generation can realize a heat rate improvement of 4.3% in the Eastern Interconnection, 2.3% in the Texas Interconnection, and 2.1% in the Western Interconnection. This assumption of 2.1% to 4.3% heat rate improvement, based on the location of generator, is represented in the heat rate improvement retrofit option offered in the model. Most of the methods that can be applied to achieve a sustained HRI on a coal-steam EGU will entail a capital cost.

CSAPR Update Rule

The Cross-State Air Pollution Rule (CSAPR) requires states to significantly improve air quality by reducing power plant emissions that cross state lines and contribute to ozone and fine particle pollution in other states. CSAPR requires a total of 28 states to reduce annual SO₂ emissions, annual NO_x emissions and/or ozone season NO_x emissions to assist in attaining the 1997 ozone and fine particle and 2006 fine particle National Ambient Air Quality Standards (NAAQS). The timing of CSAPR's implementation has been affected by a number of court actions. On October 23, 2014, the D.C. Circuit granted EPA's request to lift the stay of CSAPR and revise its implementation schedule, following a favorable decision on the rule from the Supreme Court. Accordingly, implementation of Phase 1 of CSAPR began on January 1, 2015, and implementation of Phase 2 is scheduled to begin on January 1, 2017. On July 28, 2015, the D.C. Circuit remanded certain states' Phase 2 budgets. The proceeding paragraphs explain how these remanded budgets were reflected in IPM.

In Phase 1, power plants in the affected states have combined annual emissions budgets of approximately 3.47 million tons for SO₂, 1.27 million tons for annual NO_x, and 0.63 million tons for ozone-season NO_x. These emissions caps will tighten in 2017 when Phase 2 of the program begins. The Phase 2 combined annual emissions budgets will be 2.26 million tons for SO₂ and 1.2 million tons for annual NO_x. Even though the D.C. Circuit remanded without vacatur four Phase 2 state SO₂ budgets, these budgets were still modeled as they were not vacated and the CSAPR Update Rule does not address that remand. The original Phase 2 combined ozone season NO_x emissions budget was 0.59 million tons; however, several of the state budgets were remanded. As the CSAPR Update Rule addresses the D.C. Circuit's remand, the remanded budgets were not included in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA. The table below shows the state budgets for Ozone Season NO_x for the CSAPR Update Rule. Georgia is the only state that did not have a remanded ozone season NO_x budget for the 1997 ozone NAAQS and did not significantly contribute to a downwind nonattainment or maintenance receptor for the 2008 ozone NAAQS. Therefore, per the CSAPR Update Rule, Georgia was modeled as a separate region, with Georgia units unable to trade allowances with units in other states, and received its CSAPR Phase 2 budget and assurance level, as shown in the table below.

The programs' assurance provisions, which restrict the maximum amount of exceedance of an individual state's emissions budget in a given year through the use of banked or traded allowances to 18% or 21% of the state's budget, will also be implemented beginning in Phase 2. For more information on CSAPR, go to <http://www.epa.gov/crossstaterule/>. For more information on the CSAPR Update, go to <https://www.epa.gov/airmarkets/final-cross-state-air-pollution-rule-update>.

CSAPR Update State Budgets, Variability Limits, and Assurance Levels for Ozone-Season NO_x (Tons)⁴			
	Budget	Variability Limit	Assurance Level
Alabama	13,211	2,774	15,985
Arkansas	9,210	1,934	11,144
Iowa	11,272	2,367	13,639
Illinois	14,601	3,066	17,667
Indiana	23,303	4,894	28,197
Kansas	8,027	1,686	9,713
Kentucky	21,115	4,434	25,549

⁴ Note the small discrepancy between the finalized budgets for Michigan and Virginia and the budgets reflected in this table for these states.

CSAPR Update State Budgets, Variability Limits, and Assurance Levels for Ozone-Season NO_x (Tons)⁴			
	Budget	Variability Limit	Assurance Level
Louisiana	18,639	3,914	22,553
Maryland	3,828	804	4,632
Michigan	16,544	3,474	20,018
Missouri	15,780	3,314	19,094
Mississippi	6,315	1,326	7,641
New Jersey	2,062	433	2,495
New York	5,135	1,078	6,213
Ohio	19,522	4,100	23,622
Oklahoma	11,641	2,445	14,086
Pennsylvania	17,952	3,770	21,722
Tennessee	7,736	1,625	9,361
Texas	52,301	10,983	63,284
Virginia	9,316	1,956	11,272
Wisconsin	7,915	1,662	9,577
West Virginia	17,815	3,741	21,556
Regional Total	313,240		

Georgia Budget, Variability Limits, and Assurance Levels for Ozone-Season NO_x (Tons)			
	Budget	Variability Limit	Assurance Level
Georgia	24,041	5,049	29,090

MATS

Finalized in 2011, the Mercury and Air Toxics Rule (MATS) establishes National Emissions Standards for Hazardous Air Pollutants (NESHAPS) for the “electric utility steam generating unit” source category, which includes those units that combust coal or oil for the purpose of generating electricity for sale and distribution through the electric grid to the public. EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA are identical to EPA Base Case v.5.13 in its modeling MATS; it applies the input-based (lbs/MMBtu) MATS control requirements for mercury and hydrogen chloride to covered units. Since its release in 2011, EPA has completed multiple legal actions on this rule as summarized in <https://www.epa.gov/mats>. On June 29, 2015, the U.S. Supreme Court reversed a portion of the U.S. Court of Appeals for the D.C. Circuit (D.C. Circuit) decision upholding the Mercury and Air Toxics Standards (MATS). *Michigan v. EPA*, 135 S.Ct. 2699 (2015).

Cooling Water Intakes (316(b)) Rule

Section 316(b) of the Clean Water Act requires that National Pollutant Discharge Elimination System (NPDES) permits for facilities with cooling water intake structures ensure that the location, design, construction, and capacity of the structures reflect the best technology available to minimize harmful impacts on the environment. Under a 1995 consent decree with environmental organizations, EPA divided the section 316(b) rulemaking into three phases. All new facilities except offshore oil and gas exploration facilities were addressed in Phase I in December 2001; all new offshore oil and gas exploration facilities were later addressed in June 2006 as part of Phase III. This final rule also removes a portion of the Phase I rule to comply with court rulings. Existing large electric-generating facilities were addressed in Phase II in February 2004. Existing small electric-generating and all manufacturing facilities were addressed in Phase III (June 2006). However, Phase II and the existing facility portion of Phase III were remanded to EPA for reconsideration as a result of legal proceedings. This final rule combines these remands into one rule, and provides a holistic approach to protecting aquatic life impacted by cooling water intakes. This rule covers roughly 1,065 existing facilities that are designed to withdraw at least 2 million gallons per day of cooling water. EPA estimates that 544 power plants are affected by this rule.

The final regulation has three components for affected facilities: 1) reduce fish impingement through a technology option that meets best technology available requirements, 2) conduct site specific studies to help determine whether additional controls are necessary to reduce entrainment, and 3) meet entrainment standards for new units at existing facilities when additional capacity is added. EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA includes cost of complying with this rule by the effected units as detailed in the rule development. The IPM cost assumptions and analysis for 316(b) can be found in Chapter 8.7 of the Rule's Technical Development Document for the Final Section 316(b) Existing Facilities Rule at http://water.epa.gov/lawsregs/lawsguidance/cwa/316b/upload/Cooling-Water_Phase-4_TDD_2014.pdf

For more information on 316(b), go to <http://water.epa.gov/lawsregs/lawsguidance/cwa/316b/index.cfm>

Combustion Residuals from Electric Utilities (CCR)

In December of 2014, EPA finalized national regulations to provide a comprehensive set of requirements for the safe disposal of coal combustion residuals (CCRs), commonly known as coal ash, from coal-fired power plants. The final rule is the culmination of extensive study on the effects of coal ash on the environment and public health. The rule establishes technical requirements for CCR landfills and surface impoundments under Subtitle D of the Resource Conservation and Recovery Act.

EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA includes cost of complying with this rule's requirements by taking the estimated plant-level compliance cost identified in the 2014 RIA for the CCR final rule and apportioning them into unit-level cost. Three categories of unit-level cost were quantified; capital cost, fixed operating and maintenance cost (FOM), and variable operating and maintenance (VOM) cost. The method for apportioning these costs to the unit-level for inclusion in EPA Base Case is discussed in the Addendum to the Regulatory Analysis (RIA) for EPA's 2015 Coal combustion Residuals (CCR) Final Rule. The initial plant-level cost estimates are discussed in the Rule's Regulatory Impact Analysis.

For more information on CCR, go to <http://www2.epa.gov/coalash/coal-ash-rule>.

Section 3.9.4

AB 32

California AB 32 CO₂ allowance price projections are based on AEO 2013. The California AB 32 CO₂ cost adder for power imported into CA is based on the CA ARB unspecified rate of 0.428 Metric Tons CO₂ / MWh.

Section 3.10

Table 3-12 Emission and Removal Rate Assumptions for Potential (New) Units in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

	Controls, Removal, and Emissions Rates	Supercritical Pulverized Coal	Integrated Gasification Combined Cycle	Integrated Gasification Combined Cycle with Carbon Sequestration	Advanced Combined Cycle	Advanced Combined Cycle with Carbon Sequestration	Advanced Combustion Turbine	Biomass-Bubbling Fluidized Bed (BFB)	Geothermal	Landfill Gas
SO₂	Removal / Emissions Rate	96% with a floor of 0.06 lbs/MMBtu	99%	99%	None	None	None	0.08 lbs/MMBtu	None	None
NO_x	Emission Rate	0.07 lbs/MMBtu	0.013 lbs/MMBtu	0.013 lbs/MMBtu	0.011 lbs/MMBtu ¹	0.011 lbs/MMBtu ¹	0.011 lbs/MMBtu	0.02 lbs/MMBtu	None	0.09 lbs/MMBtu
Hg	Removal / Emissions Rate	90%	90%	90%	Natural Gas: 0.000138 lbs/MMBtu Oil: 0.483 lbs/MMBtu	Natural Gas: 0.000138 lbs/MMBtu Oil: 0.483 lbs/MMBtu	Natural Gas: 0.000138 lbs/MMBtu Oil: 0.483 lbs/MMBtu	0.57 lbs/MMBtu	3.70	None
CO₂	Removal / Emissions Rate	202.8 - 215.8 lbs/MMBtu	202.8 - 215.8 lbs/MMBtu	90%	Natural Gas: 117.08 lbs/MMBtu Oil: 161.39 lbs/MMBtu	90%	Natural Gas: 117.08 lbs/MMBtu Oil: 161.39 lbs/MMBtu	None	None	None
HCL	Removal / Emissions Rate	99% 0.0001 lbs/MMBtu	99% 0.0001 lbs/MMBtu	99% 0.0001 lbs/MMBtu						

Notes:

¹0.011 lbs/MMBtu is also used for committed and recent Combined Cycle Units

Table 3-13 State Power Regulations in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
Alabama	Alabama Administrative Code Chapter 335-3-8	NO _x	0.02 lbs/MMBtu for combined cycle EGUs which commenced operation after April 1, 2003; For combined-cycle electric generating units fired by natural gas: 4.0 ppmvd at 15% O ₂ (0.0178 lbs/MMBtu), by fuel oil- 15.0 ppmvd at 15% O ₂ (0.0667 lbs/MMBtu)	2003	
Arizona	Title 18, Chapter 2, Article 7	Hg	90% removal of Hg content of fuel or 0.0087 lbs/GWh annual reduction for all non-cogen coal units > 25 MW	2017	
California	CA Reclaim Market	NO _x	9.68 MTons annual cap for list of entities in Appendix A of "Annual RECLAIM Audit Market Report for the Compliance Year 2005" (304 entities)	1994	Since the Reclaim Trading Credits are applicable to entities besides power plants, we approximate by hardwiring the NO _x and SO ₂ allowance prices for the calendar year 2006.
		SO ₂	2.839 MTons in 2016, 2.474 in 2018, and 2.219 in 2020 onward annual cap for list of entities in Appendix A of "Annual RECLAIM Audit Market Report for the Compliance Year 2005" (304 entities)		
	CA AB 32	CO ₂	Power sector and Non-power Sector Cap in Million metric tons.	2012	Refer to Section 3.9.4 for details
Colorado	40 C.F.R. Part 60	Hg	2012 & 2013: 80% reduction of Hg content of fuel or 0.0174 lbs/GWh annual reduction for Pawnee Station 1 and Rawhide Station 101. 2014 through 2016: 80% reduction of Hg content of fuel or 0.0174 lbs/GWh annual reduction for all coal units > 25 MW 2017 onwards: 90% reduction of Hg content of fuel or 0.0087 lb/GWh annual reduction for all coal units > 25 MW	2012	
	Clean Air, Clean Jobs Act	NO _x , SO ₂ , Hg	Retire Arapahoe 3 by 2014; Cherokee 1 & 2 by 2012, Cherokee 3 by 2017; Cameo 1 & 2; Valmont 5 by 2018; W N Clark 55 & 59 by 2015 Convert following units to natural gas: Arapahoe 4 by 2015; Cherokee 4 by 2018 Install SCRs in Hayden 1 & 2 by 2016; SCR + FGD in Pawnee 1 [already installed]	2010	
		Hg	Comanche Units 1, 2, and 3 together limit of 0.000013 lbs/MWh	2012	
		NO _x	Craig Station Unit 1 and Unit 3 NO _x Limit 0.28lbs/MMBtu	2012	
		NO _x	Craig Station Unit 2 NO _x Limit 0.08 lbs/MMBtu	2012	
Connecticut	Executive Order 19 and Regulations of Connecticut State Agencies (RCSA) 22a-174-22	NO _x	0.15 lbs/MMBtu annual rate limit for all fossil units > 15 MW (Non-ozone season only)	2003	
	Executive Order 19, RCSA 22a-198 & Connecticut General Statutes (CGS) 22a-198	SO ₂	Combust fuel with a sulfur content < 3000 ppm; or Meet an average emission rate of < 0.33 lb SO ₂ /MMBtu for each calendar quarter; or Meet an average emission rate of < 0.3 lb SO ₂ /MMBtu for each calendar quarter if averaging the emissions from two or more units at a premises		
	CGS section 22a-199	Hg	90% removal of Hg content of fuel or 0.6 lbs/TBtu annual reduction for all coal-fired units	2008	
Delaware	Regulation 1148: Control of Stationary Combustion Turbine EGU Emissions	NO _x	0.19 lbs/MMBtu ozone season PPMVD for stationary, liquid fuel fired CT EGUs >1 MW 0.39 lbs/MMBtu ozone season PPMVD for stationary, gas fuel fired CT EGUs >1 MW	2009	
	Regulation No. 1146: Electric	NO _x	0.125 lbs/MMBtu rate limit of NO _x annually for all coal and residual-oil fired units > 25 MW	2009	The following units have specific NO _x , SO ₂ , and Hg annual caps in MTons:

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
	Generating Unit (EGU) Multi-Pollutant Regulation	SO ₂	0.26 lbs/MMBtu annual rate limit for coal and residual-oil fired units > 25 MW	2012	Edge Moor 3: 0.773 NO _x , 1.391 SO ₂ , & 2012: 0.0000083 Hg, 2013 onwards: 0.0000033 Hg Edge Moor 4: 1.339 NO _x , 2.41 SO ₂ , & 2012: 0.0000144 Hg, 2013 onwards: 0.0000057 Hg Edge More 5: 1.348 NO _x & 2.427 SO ₂ Indian River 3: 0.977 NO _x , 1.759 SO ₂ , & 2012: 0.0000105 Hg, 2013 onwards: 0.0000042 Hg Indian River 4: 2.032 NO _x , 3.657 SO ₂ , & 2012: 0.0000219 Hg, 2013 onwards: 0.0000087 Hg McKee Run 3 0.244 NO _x & 0.439 SO ₂
		Hg	2012: 80% removal of Hg content of fuel or 0.0174 lbs/GWh annual reduction for all coal units > 25 MW 2013 onwards: 90% removal of Hg content of fuel or 0.0087 lbs/GWh annual reduction for all coal units > 25 MW		
	Regulation 1108: Distillate Fuel Oil rule	SO ₂	Any relevant units are to use 0.3% sulfur distillate fuel oil		Fuel rule modeled through unit emission rates
Georgia	Multi-pollutant Control for Electric Utility Steam Generating Units	SCR, FGD, and Sorbent Injection Baghouse controls to be installed	The following plants must install controls: Bowen, Branch, Hammond, McDonough, Scherer, Wansley, and Yates	Implementation from 2008 through 2015, depending on plant and control type	
Illinois	Title 35, Section 217.706	NO _x	0.25 lbs/MMBtu summer season rate limit for all fossil units > 25 MW	2003	
	Title 35, Part 225, Subpart B 225.230	Hg	90% removal of Hg content of fuel; or a standard of .0080 lb Hg/GWh for sources at or above 25 MW; If facility commenced operation on or before December 31, 2008, start date for implementation must be July 1, 2009	2009	Not Ameren Specific
	Title 35 Part 225 Subpart B 225.233	NO _x	0.11 lbs/MMBtu annual rate limit or a rate equivalent to 52% of base annual NO _x emissions (whichever is more stringent) and 0.11 lbs/MMBtu ozone season rate limit or a rate equivalent to 80% of base ozone season NO _x emissions (whichever is more stringent) for all coal steam units > 25 MW	2012	Not Ameren Specific
		SO ₂	2015 onwards: 0.25 lbs/MMBtu annual rate limit for all coal steam units > 25 MW or a rate equivalent to 35% of the base SO ₂ emissions (whichever is more stringent)	2015	
		Hg	90% removal of Hg content of fuel or 0.008 lbs/GWh annual reduction for all coal units > 25 MW	2015	
	Title 35 Part 225 Subpart B 225.233 (MPS Ameren specific)	NO _x	0.11 lbs/MMBtu annual rate limit and ozone season rate limit Ameren coal steam units > 25 MW	2012	
		SO ₂	2015 & 2016 onwards: 0.35 lbs/MMBtu annual rate limit for all Ameren coal steam units > 25 MW 2020 onwards: 0.23 lbs/MMBtu annual rate limit for all Ameren coal steam units > 25 MW System-wide mass emissions limit of 327,996 tons for 10/1/2013-12/31/2020	2015 (as modified by board orders 11/2013)	
	Title 35 Part 225; Subpart F: Combined Pollutant Standards (REPEALED)	NO _x	0.11 lbs/MMBtu ozone season and annual rate limit for all specified Midwest Gen coal steam units	2012	REPEALED
SO ₂		0.44 lbs/MMBtu annual rate limit in 2013, decreasing annually to 0.11 lbs/MMBtu in 2019 for all specified Midwest Gen coal steam units	2013		
Hg		90% removal of Hg content of fuel or 0.08 lbs/GWh annual reduction for all specified Midwest Gen coal steam units	2015		
		NO _x	0.11 lbs/MMBtu group average annual and ozone season emission rates	2012	

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
	Title 35 Part 225 Subpart B 225.291-299 (Combined pollutant standard)	SO ₂	Group average annual emission rates of 0.44 lbs/MMBtu in 2013, 0.41 lbs/MMBtu in 2014, 0.38 lbs/MMBtu in 2015 and 2016, 0.15 lbs/MMBtu in 2017, 0.13 lbs/MMBtu in 2018 and 0.11 lbs/MMBtu in 2019 and after, and annual system-wide mass SO ₂ emissions limits of no more than 57,000 tons in 2013, 54,000 tons in 2014, 39,000 tons in 2015, and 37,000 tons in 2016	2013	Applies to Midwest Generation's Coal-Fired Boilers as of 7/1/2006: Crawford (7 & 8), Fisk (19), Joliet (6, 7 & 8), Powerton (5 & 6), Waukegan (6, 7 & 8) and Will County (1, 2, 3 & 4)
		Hg	90% removal of Hg content of fuel or 0.0080 lbs/GWh, compliance determined on a rolling 12-month basis	2015	
Indiana	A.B. Brown Generating Station Consent Order dated 1/11/2016	SO ₂	(A) When Unit 1 is operating alone: (i) 2152.2 lbs/hr, 1-hour average or 0.855 lbs/MMBtu 1-hour average; and (ii) 1831.6 lbs/hr, 24-hour average or 0.727 lbs/MMBtu 24-hour average; (B) When Units 1 & 2 are both in operation, both units shall not exceed the following combined emission rates: (i) 2152.2 lbs/hr, 1-hour average or 0.426 lbs/MMBtu 1-hour average; and (ii) 1831.6 lbs/hr, 24-hour average or 0.363 lbs/MMBtu 24-hour average; (C) When Unit 2 is operating alone: (i) 1745.7 lbs/hr, 1-hour average or 0.690 lbs/MMBtu 1-hour average; and (ii) 1485.59 lbs/hr, 24-hour average or 0.588 lbs/MMBtu 24-hour average;	2016	https://www.regulations.gov/document?D=EP-A-R05-OAR-2016-0090-0005
	Clifty Creek Generating Station Consent Order dated 2/1/2016	SO ₂	Units 1-6, 2624.5 lbs SO ₂ /hr on a 720-hr rolling average	2016	
Kansas	NO _x Emission Reduction Rule, K.A.R. 28-19-713a. (Nearman Unit 1)	NO _x	Annual rate limit .26 lbs/MMBtu	2012	
	NO _x Emission Reduction Rule, K.A.R. 28-19-713a. (Quindaro Unit 2)	NO _x	Annual rate limit .20 lbs/MMBtu	2012	
Louisiana	Title 33 Part III - Chapter 22, Control of Nitrogen Oxides	NO _x	For units >= 80 MMBtu/hr, rate limit in lbs/MMBtu: Coal fired : 0.21 Oil-fired: 0.18 All others (gas or liquid): 0.1 Stationary Sources >= 10 MMBtu/hr, rate limit in lbs/MMBtu: Oil-fired: 0.3 Gas-fired: 0.2	2005	Applicable for all units in Baton Rouge Nonattainment Area & Region of Influence. Willow Glenn, located in Iberville, obtained a permit that allows its gas-fired units to maintain a cap. These units are separately modeled.
	Title 33, Part III - Chapter 15, Emission Standards for Sulfur Dioxide	SO ₂	1.2 lbs/MMBtu ozone season ppmvd for all single point sources that emit or have the potential to emit 5 tons or more of SO ₂	2005	
Maine	Chapter 145 NO _x Control Program	NO _x	0.22 lbs/MMBtu annual rate limit for all fossil fuel units > 25 MW built before 1995 with a heat input capacity < 750 MMBtu/hr. 0.15 lbs/MMBtu annual rate limit for all fossil fuel units > 25 MW built before 1995 with a heat input capacity > 750 MMBtu/hr. 0.20 lbs/MMBtu annual rate limit for all fossil fuel fired indirect heat exchangers, primary boilers, and resource recovery units with heat input capacity > 250 MMBtu/hr	2005	

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
	38 MRSA Section 603-A Low Sulfur in Fuel Rule	SO ₂	All fossil units require the use of 0.5% sulfur residual oil [0.52 lbs/MMBtu]	2018	Fuel rule modeled through unit emission rates
	Statute 585-B Title 38, Chapter 4: Protection and Improvement of Air	Hg	25 lbs annual cap for any facility including EGUs (0.0000125 MTons)	2010	
Maryland	Maryland Healthy Air Act (COMAR 26.11.27)	NO _x	The annual NO _x tonnage limitations: 1/2009-12/31/2011 - 20.216 Mtons 1/1/2012 onward - 16.324 Mtons (16.7 Mtons minus the tonnage for R. Paul Smith units 3 and 4 which are retired) The ozone season NO _x tonnage limitations 5/1/2009-9/30/2011 - 8.9 Mtons 5/1/2012 onward 7.197 Mtons (7.227 Mtons minus the tonnage for R. Paul Smith units 3 and 4 which are retired)	2009	
		SO ₂	48.618 Mtons from 1/1/2010-12/31/2012 36.467 Mtons from 1/1/2013 onward (37.235 minus the tonnage for R. Paul Smith units 3 and 4 which are retired)		
		Hg	2010 through 2012: 80% removal of Hg content of fuel for 15 specific existing coal steam units 2013 onwards: 90% removal of Hg content of fuel for 15 specific existing coal steam units		

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
	COMAR 26.11.38 Control of NO _x Emissions from Coal-Fired Electric Generating Units	NO _x	<p>Phase 1: requires all of the affected units to minimize NO_x emissions every day of the ozone season (5/1-9/30) by optimizing the pollution controls that are already in place.</p> <p>Phase 2: requires the owner or operator of units that have not installed SCR (H. A. Wagner Unit 2, C. P. Crane Units 1 and 2, Chalk Point Unit 2, and Dickerson Units 1, 2 and 3) to choose from the following:</p> <p>Option 1—By June 1, 2020, install and operate an SCR control system that can meet a NO_x emission rate of 0.09 lbs/MMBtu during the ozone season based on a 30-day rolling average;</p> <p>Option 2—By June 1, 2020, permanently retire the unit;</p> <p>Option 3—By June 1, 2020, switch fuel permanently from coal to natural gas and operate the unit on natural gas; or</p> <p>Option 4—By June 1, 2020, meet a system wide, daily NO_x tonnage cap of 21 tons per day for every day of the ozone season or meet a system wide NO_x emission rate of 0.13 lbs/MMBtu as a 24-hour block average. The rate and the cap in option 4 are consistent with levels assuming SCR controls on all units. If option 4 is selected, deeper reductions starting in May 2016, 2018 and 2020 must also be achieved.</p> <p>2016—Meet a 30-day system wide rolling average NO_x emission rate of 0.13 lbs/MMBtu during the ozone season.</p> <p>2018—Meet a 30-day system wide rolling average NO_x emission rate of 0.11 lbs/MMBtu during the ozone season.</p> <p>2020—Meet a 30-day system wide rolling average NO_x emission rate of 0.09 lbs/MMBtu during the ozone season.</p> <p>Without option 4, the allowable 30-day system wide rolling average NO_x emission rate is 0.15 lbs/MMBtu during the ozone season.</p> <p>Option 4 also includes provisions to ensure that the reliability of the electrical system is maintained.</p>	<p>Phase 1: May 1, 2015</p> <p>Phase 2:2020</p>	<p>Affected EGUs are all coal-fired EGUs owned by Raven Power Finance LLC (Raven Power) and NRG Energy, Inc. (NRG) in Maryland.</p> <p>Plants that are part of the Raven system include Brandon Shores Units 1 and 2, H. A. Wagner Units 2 and 3, and C. P. Crane Units 1 and 2.</p> <p>Plants that are part of the NRG system include: Morgantown Units 1 and 2, Chalk Point Units 1 and 2, and Dickerson Units 1, 2 and 3.</p> <p>The Crane units were sold on or around 2/16/2016 and are no longer part of the Raven System.</p>
Massachusetts	310 CMR 7.29	NO _x	1.5 lbs/MWh annual GPS for Brayton Point, Mystic Generating Station, Mount Tom, Canal, and Salem Harbor	2006	<p>Brayton units 1 through 3 have an annual Hg cap of 0.0000733 MTons</p> <p>Mt. Tom 1 has an annual Hg cap of 0.00000205 MTons</p> <p>Salem Harbor units 1 through 3 have an annual Hg cap of 0.0000106 MTons</p>
		SO ₂	3.0 lbs/MWh annual GPS for Brayton Point, Mystic Generating Station, Mount Tom, Canal, and Salem Harbor		
	Hg	<p>2012: 85% removal of Hg content of fuel or 0.0000025 lbs/MWh annual GPS for Brayton Point, Mystic Generating Station, Mount Tom, Canal, and Salem Harbor</p> <p>2013 onwards: 95% removal of Hg content of fuel or 0.0000025 lbs/MWh annual GPS for Brayton Point, Mystic Generating Station, Mount Tom, Canal, and Salem Harbor</p>			
	310 CMR 7.04	SO ₂	Sulfur in Fuel Oil Rule requires the use of 0.5% sulfur residual oil [0.52 lbs/MMBtu] by July 1, 2014 for units greater than 250 MMBtu energy input; by July 1, 2018 for all residual oil units except for those located in the Berkshire APCD.	2014	Fuel rule modeled through unit emission rates

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
Michigan	Part 18 Rules – R 336.1801 (2) (a)	NO _x	For all fossil units > 25 MW, and annual PTE of NO _x >25 tons, .25 lbs/MMBtu ozone season rate, OR 65% NO _x reductions from 1990 levels	2004	
	Part 4 Rules – R 336.1401	SO ₂	SO ₂ ppmvd rates in 50% excess air for units in Wayne county: Pulverized coal: 550; Other coal: 420; Distillate oil Nos. 1 & 2: 120; Used oil: 300; Crude and Heavy oil: 400 For all other units, with 0-500,000 lbs Steam per Hour Plant Capacity: 2.5 SO ₂ ppmvd rates at 50% excess air for solid fuel is 890 and for liquid fuel is 630; the pounds of SO ₂ per MMBtu of heat input for solid fuel is 2.5 and 1.67 for liquid fuel with >500,000 lbs Steam per Hour Plant Capacity: 1.67 SO ₂ ppmvd rates at 50% excess air for solid fuel is 590 and for liquid fuel is 420; the pounds of SO ₂ per MMBtu of heat input for solid fuel is 1.67 and 1.11 for liquid fuel	2012	Not modeled in IPM as limits are within SIP rates
	Part 15. Emission Limitations and Prohibitions - Mercury	Hg	90% removal of Hg content of fuel annually for all coal units > 25 MW An affected EGU is defined in Part 15 as unit with a nameplate capacity of greater than 25 MW producing electricity for sale. An out-put based emission standard of 0.008 lb of Hg per gigawatts hour on a 12-month rolling average as determined at the end of each calendar month	2015	
Minnesota	Minnesota Hg Emission Reduction Act	Hg	90% removal of Hg content of fuel annually for all coal facilities > 500 MW combined; Dry scrubbed units must implement by December 31, 2010; Wet scrubbed units must implement by December 31, 2014.	2006	
Missouri	10 CSR 10-6.350	NO _x	0.25 lbs/MMBtu annual rate limit for all fossil fuel units > 25 MW in the following counties: Bollinger, Butler, Cape Girardeau, Carter, Clark, Crawford, Dent, Dunklin, Gasconade, Iron, Lewis, Lincoln, Madison, Marion, Mississippi, Montgomery, New Madrid, Oregon, Pemiscot, Perry, Phelps, Pike, Ralls, Reynolds, Ripley, St. Charles, St. Francois, Ste. Genevieve, Scott, Shannon, Stoddard, Warren, Washington and Wayne 0.18 lbs/MMBtu annual rate limit for all fossil fuel units > 25 MW the following counties: City of St. Louis, Franklin, Jefferson, and St. Louis 0.35 lbs/MMBtu annual rate limit for all fossil fuel units > 25 MW in the following counties: Buchanan, Jackson, Jasper, Randolph, and any other county not listed 0.68 lbs NO _x /mmBtu for cyclone units burning 100,000 or more passenger tire equivalents (PTE).	2004	
Montana	Montana Mercury Rule Adopted 10/16/06	Hg	0.90 lbs/TBtu annual rate limit for all non-lignite coal units 1.50 lbs/TBtu annual rate limit for all lignite coal units	2010	
New Hampshire	RSA 125-O: 11-18	Hg	80% reduction of aggregated Hg content of the coal burned at the facilities for Merrimack Units 1 & 2 and Schiller Units 4, & 6	2012	Unit 5 is no longer subject because PSNH installed a new unit.
	ENV-A2900 Multiple pollutant annual budget trading and banking program	NO _x	2.40 MTons summer cap for all fossil steam units > 250 MMBtu/hr operated at any time in 1990 and all new units > 15 MW 3.64 MTons annual cap for Merrimack 1 & 2, Newington 1, and Schiller 4 through 6	2007	
		SO ₂	7.29 MTons annual cap for Merrimack 1 & 2, Newington 1, and Schiller 4 through 6		
	Env -A 2300 - Mitigation of Regional Haze	SO ₂	90% SO ₂ control at Merrimack 1 & 2; 0.5 lb SO ₂ /MMBtu 30 day rolling average at Newington 1	2013	
NO _x		0.30 lb NO _x /MMBtu 30-day rolling average at Merrimack 2; 0.35 lb NO _x /MMBtu when burning oil and 0.25 lb NO _x /MMBtu when burning oil and gas at Newington 1 (permit condition).			

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
New Jersey	N.J. A. C. Title 7, Chapter 27, Subchapter 10.2	SO ₂	0.15 (30 day rolling average) lbs/MMBtu	2012	
	N.J.A.C. 7:27-27.5, 27.6, 27.7, and 27.8	Hg	90% removal of Hg content of fuel annually for all coal-fired units or <= 3.0 mg/MWh (net) 95% removal of Hg content of fuel annually for all MSW incinerator units or <= 28 ug/dscm	2007	
	N.J. A. C. Title 7, Chapter 27, Subchapter 19, Table 1	NO _x	Annual rate limits in lbs/MMBtu for the following technologies: 1.0 for tangential and wall-fired wet-bottom coal boilers serving an EGU 0.60 for cyclone-fired wet-bottom coal boilers serving an EGU	2007	No longer operative. Operative through December 14, 2012
	N.J. A. C. Title 7, Chapter 27, Subchapter 19, Table 2	NO _x	Annual rate limits in lbs/MMBtu for the following technologies: 0.38 for tangential dry-bottom coal boilers serving an EGU 0.45 for wall-fired dry-bottom coal boilers serving an EGU 0.55 for cyclone-fired dry-bottom coal boilers serving an EGU Limits in lbs/MWh 1.50 for tangential, wall-fired, and cyclone-fired coal boilers serving an EGU 2.00 for tangential oil and/or gas boilers serving an EGU 2.80 for wall fired oil and/or gas boilers serving an EGU 4.30 for cyclone-fired oil and/or gas boilers serving an EGU 2.00 for tangential and wall fired gas only boilers serving an EGU 4.30 for cyclone fired gas only boilers serving an EGU	Operative from December 15, 2012 through April 30, 2015	
	N.J. A. C. Title 7, Chapter 27, Subchapter 19, Table 3	NO _x	Annual rate limit lbs/MWh - 1.50 for coal fired boilers serving an EGU; 2.00 for heavier than No.2 fuel oil fired boilers serving an EGU; 1.00 for No.2 and lighter fuel oil fired and gas only fired boilers serving an EGU	05/01/2015	
	N.J. A. C. Title 7, Chapter 27, Subchapter 19, Table 6; non- High Electricity demand Day (HEDD) unit	NO _x	2.2 lbs/MWh for gas-burning simple cycle combustion turbine units 3.0 lbs/MWh for oil-burning simple cycle combustion turbine units 1.3 lbs/MWh for gas-burning combined cycle CT or regenerative cycle CT units 2.0 lbs/MWh for oil-burning combined cycle CT or regenerative cycle CT units	05/20/2009	
	N.J. A. C. Title 7, Chapter 27, Subchapter 19, Table 7; High Electricity demand Day (HEDD) unit	NO _x	1.0 lbs/MWh for gas-burning simple cycle combustion turbine units 1.6 lbs/MWh for oil-burning simple cycle combustion turbine units 0.75 lbs/MWh for gas-burning combined cycle CT or regenerative cycle CT units 1.2 lbs/MWh for oil-burning combined cycle CT or regenerative cycle CT units	2007	On and after May 1, 2015, the owner or operator of a stationary combustion turbine that is a HEDD unit or a stationary combustion turbine that is capable of generating 15 MW or more and that commenced operation on or after May 1, 2005 shall comply with limits outlined "in Table 7 during operation on high electricity demand days, regardless of the fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment."
New York	Part 237	NO _x	39.91 Mtons [Thousand tons] non-ozone season cap for fossil fuel units > 25 MW	2004	Repealed
	Part 238	SO ₂	131.36 MTons [Thousand tons] annual cap for fossil fuel units > 25 MW	2005	Repealed
	Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units	Hg	786 lbs annual cap through 2014 for all coal fired boiler or CT units >25 MW after Nov. 15, 1990. For facilities identified in Table 1 of Part 246 and includes 40 lbs set aside. 0.60 lbs/TBtu annual rate limit for all coal units > 25 MW developed after Nov.15 1990 for new units and existing facilities – effective Jan 1, 2015.	2010	https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=lc3039690b5a011dda0a4e17826ebc834&originationContext=documenttoc&transitionType=Default&contextData=%28sc.Default%29

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
	Subpart 227-2 Reasonably Available Control Technology (RACT) For Major Facilities of Oxides Of Nitrogen (NO _x)	NO _x	Annual rate in lbs/MMBTu for very large boilers >250 MMBtu/hr on or after July 1, 2014; Gas only, tangential & wall fired : 0.08 Gas/oil tangential & wall fired : 0.15; cyclone: 0.2 Coal Wet Bottom, tangential & wall fired : 0.12; cyclone: 0.2 Coal Dry Bottom, tangential & wall fired : 0.12; stokers: 0.08	2004	
Annual rate in lbs/MMBTu for large boilers between 100 and 250 MMBtu/hr on or after July 1, 2014; Gas Only: 0.06 Gas/Oil: 0.15 Pulverized Coal: 0.20 Coal (Overfeed Stoker/FBC): 0.8					
Annual rate in lbs/MMBTu for mid-size boilers between 25 and 100 MMBtu/hr on or after July 1, 2014; Gas Only: 0.05 Distillate Oil/Gas: 0.08 Residual Oil/Gas: 0.20					
Combined cycle and cogeneration CTs must have an approved case by case RACT determination from the Department by July 1, 2014. Simple cycle CTs are required to meet 50 ppm on natural gas and 100 ppm on distillate oil.*			Compliance with these emission limits must be determined with a one hour average during the ozone season and a 30-day average during the non-ozone season unless the owner or operator chooses to use a CEMS under the provisions of section 227-2.6(b) of this Subpart.		

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
			<p>Stationary internal combustion engines having a maximum mechanical output => 200 brake horsepower in a severe ozone nonattainment area or having a maximum mechanical output rating =>400 brake horsepower outside a severe ozone nonattainment area must comply with one of the emission limits in paragraph (1), (2), or (3) of this subdivision or a case-by-case RACT determination made pursuant to paragraph (4) of this subdivision, as applicable:</p> <p>(1) For internal combustion engines fired solely with natural gas: 1.5 grams per brake horsepower-hour.</p> <p>(2) For internal combustion engines fired with landfill gas or digester gas (solely or in combination with natural gas): 2.0 grams per brake horsepower-hour.</p> <p>(3) For internal combustion engine fired with distillate oil (solely or in combination with other fuels): 2.3 grams per brake horsepower-hour.</p> <p>(4) For stationary internal combustion engines fired primarily with fuels not listed above, the owner or operator must submit a proposal for RACT to be implemented that includes descriptions of:</p> <p>(i) the available NO_x control technologies, the projected effectiveness of the technologies considered, and the costs for installation and operation for each of the technologies; and(ii) the technology and the appropriate emission limit selected as RACT considering the costs for installation and operation of the technology.</p> <p>(5) Any stationary internal combustion engine may rely on an emission limit that reflects a 90 percent or greater NO_x reduction from the engine's actual 1990 baseline emissions, if such emissions baseline exists.</p> <p>(6) Emergency power generating stationary internal combustion engines, and engine test cells at engine manufacturing facilities that are used for either research and development purposes, reliability testing, or quality assurance performance testing are exempt from the requirements of this subdivision.</p>		
	Part 242 CO ₂ Budget Trading Program	CO ₂	<p>Any unit that, at any time on or after January 1, 2005, serves an electricity generator with a nameplate capacity equal to or greater than 25 MWe shall be a CO₂ budget unit, and any source that includes one or more such units shall be a CO₂ budget source, subject to the requirements of this Part.</p> <p>(a) The CO₂ Budget Trading Program base budget is 35,228,822 tons, for the 2014 allocation year.</p> <p>(b) The CO₂ Budget Trading Program base budget is 34,348,101 tons, for the 2015 allocation year.</p> <p>(c) The CO₂ Budget Trading Program base budget is 33,489,399 tons, for the 2016 allocation year.</p> <p>(d) The CO₂ Budget Trading Program base budget is 32,837,536 tons for the 2017 allocation year.</p> <p>(e) The CO₂ Budget Trading Program base budget is 32,016,597 tons for the 2018 allocation year.</p> <p>(f) The CO₂ Budget Trading Program base budget is 31,216,182 tons, for the 2019 allocation year.</p> <p>(g) The CO₂ Budget Trading Program base budget is 30,435,778 tons, annually for the 2020 allocation year and each succeeding allocation year.</p>	2015	<p>Full Rule Link: https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=Iafc5f680d5e011ddb477e8e3dda68a63&originationContext=documenttoc&transitionType=Default&contextData=%28sc.Default%29&bhcp=1</p> <p>Part 242-2 CO₂ Allowance Allocations Link: https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=Idb97d060dbeb11dd9768bd0e013d693a&originationContext=documenttoc&transitionType=Default&contextData=%28sc.Default%29</p>

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
	Part 251 CO ₂ Performance Standards for Major Electric Generating Facilities	CO ₂	1450 lbs/MWh rate limit for New Combustion Turbines =>25MW 925 lbs/MWh rate limit for New Fossil Fuel except CT =>25MW	2012	
North Carolina	NC Clean Smokestacks Act: Statute 143-215.107D	NO _x	25 MTons annual cap for Progress Energy coal plants > 25 MW and 31 MTons annual cap for Duke Energy coal plants > 25 MW	2007	
		SO ₂	2012: 100 MTons annual cap for Progress Energy coal plants > 25 MW and 150 MTons annual cap for Duke Energy coal plants > 25 MW 2013 onwards: 50 MTons annual cap for Progress Energy coal plants > 25 MW and 80 MTons annual cap for Duke Energy coal plants > 25 MW	2009	
	SECTION .2500 – Mercury Rules for Electric Generators	Hg	Coal-fired electric steam >25 MW to comply with the mercury emission caps of 1.133 tons (36,256 ounces) per year between 2010 and 2017 inclusive and 0.447 tons (14,304 ounces) per year for 2018 and thereafter	2010	Vacated
	15A NCAC 02D .2511	Hg	Duke Energy and Progress Energy Hg control plans submitted on January 1, 2013 and are awaiting approval. All control technologies and limitations must be implemented by December 31, 2017.	2017	
Oregon	Oregon Administrative Rules, Chapter 345, Division 24	CO ₂	675 lbs/MWh annual rate limit for new combustion turbines burning natural gas with a CF >75% and all new non-base load plants (with a CE <= 75%) emitting CO ₂	1997	
	Oregon Utility Mercury Rule - Existing Units	Hg	90% removal of Hg content of fuel reduction or 0.6 lbs/TBtu limitation for all existing coal units >25 MW	2012	
	Oregon Utility Mercury Rule - Potential Units	Hg	25 lbs limit for all potential coal units > 25 MW	2009	
Texas	Senate Bill 7 Chapter 101	SO ₂	273.95 MTons cap of SO ₂ allowances allocated annually for all grandfathered units built before 1971 and electing units in East Texas Region	2003	
		NO _x	Annual cap for all grandfathered units built before 1971 in MTons: 84.50in East Texas, 18.10 in West Texas, 1.06 in El Paso Region		
	Chapter 117	NO _x	East and Central Texas annual rate limits in lbs/MMBtu for units that came online before 1996: Gas fired units: 0.14 lb/MMBtu heat input Coal fired units: 0.165 lb/MMBtu heat input Stationary gas turbines: 0.14 lb/MMBtu heat input System cap: tons per year according to §117.3020(c)	2007	

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
			<p>Dallas-Fort Worth Eight-Hour Ozone Nonattainment Area limits for utility boilers, auxiliary steam boilers, and stationary gas turbines used in an electric power generating system:</p> <p>Utility boilers:</p> <ul style="list-style-type: none"> • Large utility systems: <ul style="list-style-type: none"> <input type="checkbox"/> 0.033 lb/MMBtu heat input rolling 24-hour (March - October) and rolling 30-day (November, December, January, February); <input type="checkbox"/> 0.033 lb/MMBtu heat input, system-wide heat input weighted average rolling 168-hour • Small utility systems: 0.06 lb/MMBtu heat input rolling 24-hour (March - October) and rolling 30-day (November, December, January, February) • 0.50 lb/MWh annual output <p>Auxiliary steam boilers:</p> <ul style="list-style-type: none"> • Natural gas or combination of natural gas and waste oil: 0.26 lb/MMBtu heat input rolling 24-hour and 0.20 lb/MMBtu heat input rolling 30-day • Fuel oil: 0.30 lb/MMBtu heat input rolling 24-hour • Mixture of natural gas and fuel oil: heat input weighted average of applicable (above) specifications rolling 24-hour according to §117.1310(a)(2)(C) • Or applicable NSPS NO_x emission limit in Subparts D, Db, or Dc <p>Stationary gas turbines:</p> <ul style="list-style-type: none"> • Non-peaking units ≥ 30 MW (annual MWh ≥ 2500 hours X unit MW rating): <ul style="list-style-type: none"> <input type="checkbox"/> Natural gas: 42 ppmv (15% O₂,dry) block one-hour <input type="checkbox"/> Fuel oil: 65 ppmv (15% O₂,dry) block one-hour • Peaking units (annual MWh < 2500 hours X unit MW rating): <ul style="list-style-type: none"> <input type="checkbox"/> Natural gas: 0.20 lb/MMBtu heat input block one-hour <input type="checkbox"/> Fuel oil: 0.30 lb/MMBtu heat input block one-hour <p>Houston-Galveston-Brazoria Eight-Hour Ozone Nonattainment Area annual Mass Emissions Cap and Trade (MECT) Program for EGUs and non-EGUs. EGUs include utility boilers, auxiliary steam boilers, stationary gas turbines, and duct burners used in turbine exhaust ducts used in an electric power generating system: 39.99 MTons NO_x allowances allocated annually to all MECT sources (EGUs and Non-EGUs combined); 17.57 MTons NO_x allowances allocated annually to all MECT sources (EGUs)</p>		<p>assumed to be in compliance based on their reported 2011 ETS rates. The regulations for these regions are not modeled.</p>

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
			<p>Beaumont-Port Arthur Area limits for utility boilers, auxiliary steam boilers, and stationary gas turbines used in an electric power generating system:</p> <p>Utility boilers:</p> <ul style="list-style-type: none"> • 0.10 lbs/MMBtu heat input daily average • System cap in lb/day based on rolling 30-day cap and maximum daily cap according to §117.1020(c)(1)-(2) <p>Auxiliary steam boilers:</p> <ul style="list-style-type: none"> • Natural gas or combination of natural gas and waste oil: 0.26 lb/MMBtu heat input rolling 24-hour and 0.20 lb/MMBtu heat input rolling 30-day • Fuel oil: 0.30 lb/MMBtu heat input rolling 24-hour • Mixture of natural gas and fuel oil: heat input weighted average of applicable (above) specifications rolling 24-hour according to §117.1005(d) • Or applicable NSPS NO_x emission limit in Subparts D, Db, or Dc <p>Stationary gas turbines:</p> <ul style="list-style-type: none"> • Non-peaking units ≥ 30 MW (annual MWh ≥ 2500 hours X unit MW rating): <ul style="list-style-type: none"> <input type="checkbox"/> Natural gas: 42 ppmv (15% O₂,dry) block one-hour <input type="checkbox"/> Fuel oil: 65 ppmv (15% O₂,dry) block one-hour • Peaking units (annual MWh < 2500 hours X unit MW rating): <ul style="list-style-type: none"> <input type="checkbox"/> Natural gas: 0.20 lb/MMBtu heat input block one-hour <input type="checkbox"/> Fuel oil: 0.30 lb/MMBtu heat input block one-hour 		
Utah	R307-424 Permits: Mercury Requirements for Electric Generating Units	Hg	90% removal of Hg content of fuel annually or .65 lbs/MMBtu for all coal units > 25 MW	2013	
Washington	Washington State House Bill 3141	CO ₂	\$1.45/MTons cost (2004\$) for all new fossil-fuel power plant	2004	
	Washington State House Bill 5769	CO ₂	970 lbs/MWh rate limit for new coal plants	2011	
Wisconsin	NR 428 Wisconsin Administration Code	NO _x	Annual rate limits in lbs/MMBtu for coal fired boilers > 1,000 MMBtu/hr : Wall fired, tangential fired, cyclone fired, and fluidized bed: 2013 onwards: 0.10 Arch fired: 2009 onwards: 0.18	2009	
			Annual rate limits in lbs/MMBtu for coal fired boilers between 500 and 1,000 MMBtu/hr: Wall-fired with a heat release rate=> 17,000 Btu per cubic feet per hour; 2013 onwards: 0.17 ; if heat input is lesser: Tangential fired: 2009 onwards: 0.15 Cyclone fired: 2013 onwards: 0.15 Fluidized bed: 2013 onwards: 0.10 Arch fired: 2009 onwards: 0.18		
			Annual rate limits in lbs/MMBtu for coal fired boilers between 250 and 500 MMBtu/hr: Same as for coal boiled between 500 and 1000 MMBtu/hr in addition to: Stoker Fired: .20		
			Annual rate limits in lbs/MMBtu for coal fired boilers between 50 and 250 MMBtu/hr: Same as for coal boiled between 500 and 1000 MMBtu/hr in addition to: Stoker Fired: .25		

State/Region	Bill	Emission Type	Emission Specifications	Implementation Status	Notes
			Annual rate limits for CTs in lbs/MMBtu: Natural gas CTs > 50 MW: 0.11 Distillate oil CTs > 50 MW: 0.28 Biologically derived fuel CTs > 50 MW: 0.15 Natural gas CTs between 25 and 49 MW: 0.19 Distillate oil CTs between 25 and 49 MW: 0.41 Biologically derived fuel CTs between 25 and 49 MW: 0.15		
			Annual rate limits for CCs in lbs/MMBtu: Natural gas CCs > 25 MW: 0.04 Distillate oil CCs > 25 MW: 0.18 Biologically derived fuel CCs > 25 MWs: 0.15 Natural gas CCs between 10 and 24 MW: 0.19		
	Chapter NR 44.12/446.13 Control of Mercury Emissions	Hg	Large (150MW capacity or greater) or small (between 25 and 150 MW) coal-fired EGU, 2015 onwards: 90% removal of Hg content of fuel or 0.0080 lbs/GWh reduction in coal fired EGUs > 150 MW	2015	
	Chapter NR 446.14 Multi-pollutant reduction alternative for coal-fired electrical generating units	Hg	All Coal>25MW; 70% reduction in fuel, or .0190 lbs per GW-hr from CY 2015 – CY 2017 (0.00005568 lbs/MMBtu) 80% reduction in fuel, or .0130 lbs per GW-hr from CY2018 – CY 2020 (0.0000381 lbs/MMBtu) 90% reduction in fuel, or .0080 lbs per GW-hr from January 1, 2021 onwards (0.0000234 lbs/MMBtu)	2015	Alternative already modeled in IPM
SO ₂		All Coal>25MW; .10 lbs per mmBTU by January 1, 2015			
NO _x		All Coal>25MW; 0.07 lbs per mmBTU by January 1, 2015			

Note: The EPA did not include the Regional Haze Plan for Texas and Oklahoma, published January 5th, 2016, in IPM for this rule. The Regional Haze Plan for Texas and Oklahoma does not require reductions for three to five years, see 81 FR 296, and the Fifth Circuit has since stayed those requirements pending judicial review, *Texas v. EPA*, 2016 U.S. App. LEXIS 13058 (5th Cir. July 15, 2016).

Table 3-14 New Source Review (NSR) Settlements in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
Alabama Power																		
James H. Miller	Alabama	Unit 3			Install and operate FGD continuously	95%	12/31/11	Operate existing SCR continuously	0.1	05/01/08		0.03	12/31/06	Within 45 days of settlement entry, APC must retire 7,538 SO ₂ emission allowances.	APC shall not sell, trade, or otherwise exchange any Plant Miller excess SO ₂ emission allowances outside of the APC system	1/1/21	1) Settlement requires 95% removal efficiency for SO ₂ or 90% in the event that the unit combust a coal with sulfur content greater than 1% by weight. 2) The settlements require APC to retire \$4,900,000 of SO ₂ emission allowances within 45 days of consent decree entry. 3) EPA assumed a retirement of 7,538 SO ₂ allowances based on a current allowance price of \$650.	http://www2.epa.gov/enforcement/alabama-power-company-clean-air-act-settlement
	Alabama	Unit 4			Install and operate FGD continuously	95%	12/31/11	Operate existing SCR continuously	0.1	05/01/08		0.03	12/31/06			1/1/21		
Minnkota Power Cooperative																		
			Beginning 1/01/2006, Minnkota shall not emit more than 31,000 tons of SO ₂ /year, no more than 26,000 tons beginning 2011, no more than 11,500 tons beginning 1/01/2012. If Unit 3 is not operational by 12/31/2015, then beginning 1/01/2014, the plant wide emission shall not exceed 8,500.															
Milton R. Young	North Dakota	Unit 1			Install and continuously operate FGD	95% if wet FGD, 90% if dry	12/31/11	Install and continuously operate Over-fire AIR, or equivalent technology with emission rate < .36	0.36	12/31/09		0.03 if wet FGD, .015 if dry FGD		Plant will surrender 4,346 allowances for each year 2012 – 2015, 8,693 allowances for years 2016 – 2018, 12,170 allowances for year 2019, and 14,886 allowances thereafter if Units 1 – 3 are operational by 12/31/2015. If only Units 1 and 2 are operational by 12/31/2015, the plant shall retire 17,886 units in 2020 and thereafter.	Minnkota shall not sell or trade NO _x allowances allocated to Units 1, 2, or 3 that would otherwise be available for sale or trade as a result of the settling defendants to comply with the requirements		1) Settlement requires 95% removal efficiency for SO ₂ at Unit 1 if a wet FGD is installed, or 90% if a dry FGD is installed. The FGD for Units 1 and 2 and the NO _x control for Unit 1 are modeled as emission constraints in EPA Base Case, the NO _x control for Unit 2 is hardwired into EPA Base Case. 2) Beginning 12/31/2010, Unit 2 will achieve a phase II average NO _x emission rate established through its NO _x BACT determination. Beginning 12/31/2011, Unit 1 will achieve a phase II NO _x emission rate established by its BACT determination.	http://www2.epa.gov/enforcement/minnkota-power-cooperative-and-square-butte-electric-cooperative-settlement
	North Dakota	Unit 2			Design, upgrade, and continuously operate FGD	90%	12/31/10	Install and continuously operate over-fire AIR, or equivalent technology with emission rate < .36	0.36	12/31/07		0.03	Before 2008					
SIGECO																		
FB Culley	Indiana	Unit 1	Repower to natural gas (or retire)	12/31/06										The provision did not specify an amount of SO ₂ allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			http://www2.epa.gov/enforcement/southern-indiana-gas-and-electric-company-sigeco-fb-culley-plant-clean-air-act-caa	
	Indiana	Unit 2			Improve and continuously operate existing FGD (shared by Units 2 and 3)	95%	06/30/04											
	Indiana	Unit 3			Improve and continuously operate existing FGD (shared by Units 2 and 3)	95%	06/30/04	Operate Existing SCR Continuously	0.1	09/01/03	Install and continuously operate a Baghouse	0.015	06/30/07					
PSEG FOSSIL																		
Bergen	New Jersey	Unit 2	Repower to combined cycle	12/31/02										The provision did not specify an amount of SO ₂ allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			http://www2.epa.gov/enforcement/pseg-fossil-lic-settlement	
Hudson	New Jersey	Unit 2			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	12/31/10	Install Baghouse (or approved technology)	0.015	12/31/10		The settlement requires coal with monthly average sulfur content no greater than 2% at units operating FGD -- this limit is modeled as a coal choice exception in EPA Base Case.			

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
Mercer	New Jersey	Unit 1			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	01/01/07	Install Baghouse (or approved technology) w/activated carbon injection for Hg control	0.015	12/31/10			The settlement requires coal with monthly average sulfur content no greater than 2% at units operating FGD -- this limit is modeled as a coal choice exception in EPA Base Case. Limits are consistent with recent Title V permits.	http://www2.epa.gov/enforcement/pseq-fossil-llc-settlement	
	New Jersey	Unit 2			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	01/31/07	Install Baghouse (or approved technology) w/activated carbon injection for Hg control	0.015	12/31/10			The settlement requires coal with monthly average sulfur content no greater than 2% at units operating FGD -- this limit is modeled as a coal choice exception in EPA Base Case.		
TECO																		
Big Bend	Florida	Unit 1			Existing Scrubber (shared by Units 1 & 2)	95% (95% or .25)	09/1/00 (01/01/13)	Install SCR	0.12	06/01/08				The provision did not specify an amount of SO ₂ allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			http://www2.epa.gov/enforcement/tampa-electric-company-teco-clean-air-act-caa-settlement	
	Florida	Unit 2			Existing Scrubber (shared by Units 1 & 2)	95% (95% or .25)	09/1/00 (01/01/13)	Install SCR	0.12	06/01/09								
	Florida	Unit 3			Existing Scrubber (shared by Units 3 & 4)	93% if Units 3 & 4 are operating	2000 (01/01/10)	Install SCR	0.12	06/01/10								
	Florida	Unit 4			Existing Scrubber (shared by Units 3 & 4)	93% if Units 3 & 4 are operating	06/22/05	Install SCR	0.1	07/01/07								
Gannon	Florida	Six units	Retire all six coal units and repower at least 550 MW of coal capacity to natural gas	12/31/04														
WEPCO																		
			WEPCO shall comply with the following system wide average NO _x emission rates and total NO _x tonnage permissible: by 1/1/2005 an emission rate of 0.27 and 31,500 tons, by 1/1/2007 an emission rate of 0.19 and 23,400 tons, and by 1/1/2013 an emission rate of 0.17 and 17,400 tons. For SO ₂ emissions, WEPCO will comply with: by 1/1/2005 an emission rate of 0.76 and 86,900 tons, by 1/1/2007 an emission rate of 0.61 and 74,400 tons, by 1/1/2008 an emission rate of 0.45 and 55,400 tons, and by 1/1/2013 an emission rate of 0.32 and 33,300 tons.															
Presque Isle	Michigan	Units 1 - 4	Retire or install SO ₂ and NO _x controls	12/31/12	Install and continuously operate FGD (or approved equiv. tech)	95% or 0.1	12/31/12	Install SCR (or approved tech) and continually operate	0.1	12/31/12				The provision did not specify an amount of SO ₂ allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			http://www2.epa.gov/enforcement/wisconsin-electric-power-company-wepco-clean-air-act-civil-settlement	
	Michigan	Units 5, 6					Install and operate low NO _x burners		12/31/03									
	Michigan	Units 7, 8					Operate existing low NO _x burners		12/31/05	Install Baghouse								
	Michigan	Unit 9					Operate existing low NO _x burners		12/31/06	Install Baghouse								

Company and Plant	State	Unit	Settlement Actions													Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction		
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction		
Pleasant Prairie	Wisconsin	Unit 1			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/06	Install and continuously operate SCR (or approved tech)	0.1	12/31/06							
	Wisconsin	Unit 2			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/07	Install and continuously operate SCR (or approved tech)	0.1	12/31/03							
Oak Creek	Wisconsin	Units 5, 6			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/12	Install and continuously operate SCR (or approved tech)	0.1	12/31/12							
	Wisconsin	Unit 7			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/12	Install and continuously operate SCR (or approved tech)	0.1	12/31/12							
	Wisconsin	Unit 8			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/12	Install and continuously operate SCR (or approved tech)	0.1	12/31/12							
Port Washington	Wisconsin	Units 1 – 4	Retire	12/31/04 for Units 1 – 3. Unit 4 by entry of consent decree													
Valley	Wisconsin	Boilers 1 – 4	converted to natural gas	2016				Operate existing low NO _x burner	0.08	12/31/15							
VEPCO																	
The Total Permissible NO _x Emissions (in tons) from VEPCO system are: 104,000 in 2003, 95,000 in 2004, 90,000 in 2005, 83,000 in 2006, 81,000 in 2007, 63,000 in 2008 – 2010, 54,000 in 2011, 50,000 in 2012, and 30,250 each year thereafter. Beginning 1/1/2013 they will have a system wide emission rate no greater than 0.15 lbs/mmBTU.																	
Mount Storm	West Virginia	Units 1 – 3			Construct or improve FGD	95% or 0.15	01/01/05	Install and continuously operate SCR	0.11	01/01/08							
Chesterfield	Virginia	Unit 4			Install and continuously operate FGD			Install and continuously operate SCR	0.1	01/01/13							
	Virginia	Unit 5			Construct or improve FGD	95% or 0.13	10/12/12	Install and continuously operate SCR	0.1	01/01/12							
	Virginia	Unit 6			Construct or improve FGD	95% or 0.13	01/01/10	Install and continuously operate SCR	0.1	01/01/11							
Chesapeake Energy	Virginia	Units 3, 4	Retire	12/1/2014			Install and continuously operate SCR	0.1	01/01/13								
Clover	Virginia	Units 1, 2			Improve FGD	95% or 0.13	09/01/03										
Possum Point	Virginia	Units 3, 4	Retire and repower to natural gas	05/02/03													
Santee Cooper																	
Santee Cooper shall comply with the following system wide averages for NO _x emission rates and combined tons for emission of: by 1/01/2005 facility shall comply with an emission rate of 0.3 and 30,000 tons, by 1/1/2007 an emission rate of 0.18 and 25,000 tons, by 1/1/2010 and emission rate of 0.15 and 20,000 tons. For SO ₂ emission the company shall comply with system wide averages of: by																	
http://www2.epa.gov/enforc																	

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
			1/1/2005 an emission rate of 0.92 and 95,000 tons, by 1/1/2007 and emission rate of 0.75 and 85,000 tons, by 1/1/2009 an emission rate of 0.53 and 70 tons, and by 1/1/2011 and emission rate of 0.5 and 65 tons.														ement/south-carolina-public-service-authority-santee-cooper-settlement	
Cross	South Carolina	Unit 1			Upgrade and continuously operate FGD	95%	06/30/06	Install and continuously operate SCR	0.1	05/31/04				The provision did not specify an amount of SO ₂ allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.				
	South Carolina	Unit 2			Upgrade and continuously operate FGD	87%	06/30/06	Install and continuously operate SCR	0.11/0.1	05/31/04 and 05/31/07								
Winyah	South Carolina	Unit 1			Install and continuously operate FGD	95%	12/31/08	Install and continuously operate SCR	0.11/0.1	11/30/04 and 11/30/04								
	South Carolina	Unit 2			Install and continuously operate FGD	95%	12/31/08	Install and continuously operate SCR	0.12	11/30/04								
	South Carolina	Unit 3			Upgrade and continuously operate existing FGD	90%	12/31/08	Install and continuously operate SCR	0.14/0.12	11/30/2005 and 11/30/08								
	South Carolina	Unit 4			Upgrade and continuously operate existing FGD	90%	12/31/07	Install and continuously operate SCR	0.13/0.12	11/30/05 and 11/30/08								
Grainger	South Carolina	Unit 1						Operate low NO _x burner or more stringent technology		06/25/04								
	South Carolina	Unit 2						Operate low NO _x burner or more stringent technology		05/01/04								
Jeffries	South Carolina	Units 3, 4	Retire	2012				Operate low NO _x burner or more stringent technology		06/25/04								
OHIO EDISON																		
			Ohio Edison shall achieve reductions of 2,483 tons NO _x between 7/1/2005 and 12/31/2010 using any combination of: 1) low sulfur coal at Burger Units 4 and 5, 2) operating SCRs currently installed at Mansfield Units 1 – 3 during the months of October through April, and/or 3) emitting fewer tons than the Plant-Wide Annual Cap for NO _x required for the Sammis Plant. Ohio Edison must reduce 24,600 tons system-wide of SO ₂ by 12/31/2010.															
			No later than 8/11/2005, Ohio Edison shall install and operate low NO _x burners on Sammis Units 1, 2, 4, 5, 6, and 7 and overfired air on Sammis Units 1, 2, 3, 6, and 7. No later than 12/1/2005, Ohio Edison shall install advanced combustion control optimization with software to minimize NO _x emissions from Sammis Units 1 – 5.														http://www.2.e pa.gov/enforc ement/ohio-edison-company-wh-sammis-power-station-clean-air-act-2005-settlement-and-2009	
W.H. Sammis Plant	Ohio	Unit 1			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/mmBTU	12/31/08	Install SNCR (or approved alt. tech) & operate continuously	0.25	10/31/07				Beginning on 1/1/2006, Ohio Edison may use, sell or transfer any restricted SO ₂ only to satisfy the Operational Needs at the Sammis, Burger and Mansfield Plant, or new units within the FirstEnergy System that comply with a 96% removal for SO ₂ . For calendar year 2006 through 2017, Ohio Edison may accumulate SO ₂ allowances for use at the Sammis, Burger, and Mansfield plants, or			Plant-wide NO _x Annual Caps: 11,371 tons 7/1/2005 – 12/31/2005; 21,251 tons 2006; 20,596 tons 2007; 18,903 tons 2008; 17,328 tons 2009 – 2010; 14,845 tons 2011; 11,863 2012 onward. Sammis Plant-Wide Annual SO ₂ Caps: 58,000 tons SO ₂ 7/1/2005-12/31/2005; 116,000 tons 1/1/2006 – 12/31/2007; 114,000 tons 1/1/2008-12/31/2008; 101,500 tons 1/1/2009 – 12/31/2010; 29,900 tons 1/1/2011 onward. Sammis Units 1 – 5 are also subject to the following SO ₂ Monthly Caps if Ohio Edison installs the improved SO ₂ control technology (Unit 5's option A): 3,242 tons May, July, and August 2010; 3,137 tons June and September 2010. Ohio Edison has installed the required SO ₂	
	Ohio	Unit 2			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/mmBTU	12/31/08	Operate existing SNCR continuously	0.25	02/15/06								
	Ohio	Unit 3			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/mmBTU	12/31/08	Operate low NO _x burners and overfire air by 12/1/05; install SNCR (or approved alt. tech) & operate continuously by 12/31/07	0.25	12/01/05 and 10/31/07								

Company and Plant	State	Unit	Settlement Actions													Notes	Reference			
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction					
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date		
	Ohio	Unit 4			Install In duct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/mmBTU	06/30/09	Install SNCR (or approved alt. tech) & operate continuously	0.25	10/31/07				FirstEnergy units equipped with SO ₂ Emission Control Standards. Beginning in 2018, Ohio Edison shall surrender unused restricted SO ₂ allowances.			technology (Unit 5's option B), so the Monthly Caps are: 2,533 tons May, July, and August 2010; 2,451 tons June and September 2010. Add'l Monthly Caps are: 2,533 tons May, July, and August 2011; 2,451 tons June and September 2011 thereafter.			
	Ohio	Unit 5			Install Flash Dryer, Absorber or ECO ₂ (or approved equiv. control tech) & operate continuously	50% removal or 1.1 lbs/mmBTU	06/29/09	Install SNCR (or approved alt. tech) & Operate Continuously	0.29	03/31/08										
	Ohio	Unit 6			Install FGD ² (or approved equiv. control tech) & operate continuously	95% removal or 0.13 lbs/mmBTU	06/30/11	Install SNCR (or approved alt. tech) & operate continuously	"Minimum Extent Practicable"	06/30/05	Operate Existing ESP Continuously	0.03	01/01/10						In addition to SNCR, settlement requires installation of first SCR (or approved alt tech) on either Unit 6 or 7 by 12/31/2010; second installation by 12/31/2011. Both SCRs must achieve 90% Design Removal Efficiency by 180 days after installation date. Each SCR must provide a 30-Day Rolling average. NO _x Emission Rate of 0.1 lbs/mmBTU starting 180 days after installation dates above.	
	Ohio	Unit 7			Install FGD (or approved equiv. control tech) & operate continuously	95% removal or 0.13 lbs/mmBTU	06/30/11	Operate existing SNCR Continuously	"Minimum Extent Practicable"	08/11/05	Operate Existing ESP Continuously	0.03	01/01/10							
Mansfield Plant	Pennsylvania	Unit 1			Upgrade existing FGD	95%	12/31/05										Additional Mansfield Plant-wide SO ₂ reductions are as follows: 4,000 tons in 2006, 8,000 tons in 2007, and 12,000 tons/yr for every year after. Settlement allows relinquishment of SO ₂ requirement upon shutdown of unit, after which the SO ₂ reductions must be made by another plant(s).			
	Pennsylvania	Unit 2			Upgrade existing FGD	95%	12/31/06													
	Pennsylvania	Unit 3			Upgrade existing FGD	95%	10/31/07													
Eastlake	Ohio	Unit 5						Install low NO _x burners, over-fired air and SNCR & operate continuously	"Minimize Emissions to the Extent Practicable"	12/31/06							Settlement requires Eastlake Plant to achieve additional reductions of 11,000 tons of NO _x per year commencing in calendar year 2007, and no less than 10,000 tons must come from this unit. The extra 1,000 tons may come from this unit or another unit in the region. Upon shutdown of Eastlake, another plant must achieve these reductions.			
Burger	Ohio	Unit 4	Repower with at least 80% biomass fuel, up to 20% low sulfur coal OR Retire by 12/31/2010	12/31/11																
	Ohio	Unit 5		12/31/11																
MIRANT^{1,5}																				
			System-wide NO _x Emission Annual Caps: 36,500 tons 2004; 33,840 tons 2005; 33,090 tons 2006; 28,920 tons 2007; 22,000 tons 2008; 19,650 tons 2009; 16,000 tons 2010 onward. System-wide NO _x Emission Ozone Season Caps: 14,700 tons 2004; 13,340 tons 2005; 12,590 tons 2006; 10,190 tons 2007; 6,150 tons 2008 – 2009; 5,200 tons 2010 thereafter. Beginning on 5/1/2008, and continuing for each and every Ozone Season thereafter, the Mirant System shall not exceed a System-wide Ozone Season Emission Rate of 0.150 lbs/mmBTU NO _x .														http://www2.epa.gov/enforcement/mirant-clean-air-settlement			
Potomac River Plant	Virginia	Unit 1																		
	Virginia	Unit 2	Retire	12/21/2012																

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
	Virginia	Unit 3						Install low NO _x burners (or more effective tech) & operate continuously		0.1	05/01/04						Settlement requires installation of Separated Overfire Air tech (or more effective technology) by 5/1/2005. Plant-wide Ozone Season NO _x Caps: 1,750 tons 2004; 1,625 tons 2005; 1,600 tons 2006 – 2009; 1,475 tons 2010 thereafter. Plant-wide annual NO _x Caps are 3,700 tons in 2005 and each year thereafter.	
	Virginia	Unit 4					Install low NO _x burners (or more effective tech) & operate continuously			05/01/04								
	Virginia	Unit 5					Install low NO _x burners (or more effective tech) & operate continuously			05/01/04								
Morgantown Plant	Maryland	Unit 1						Install SCR (or approved alt. tech) & operate continuously	0.1		05/01/07							
	Maryland	Unit 2						Install SCR (or approved alt. tech) & operate continuously	0.1		05/01/08							
Chalk Point	Maryland	Unit 1			Install and continuously operate FGD (or equiv. technology)	95%	06/01/10								For each year after Mirant commences FGD operation at Chalk Point, Mirant shall surrender the number of SO ₂ Allowances equal to the amount by which the SO ₂ Allowances allocated to the Units at the Chalk Point Plant are greater than the total amount of SO ₂ emissions allowed under this Section XVIII.		Mirant must install and operate FGD by 6/1/2010 if authorized by court to reject ownership interest in Morgantown Plant, or by no later than 36 months after they lose ownership interest of the Morgantown Plant. [Installed]	
	Maryland	Unit 2			Install and continuously operate FGD (or equiv. technology)	95%	06/01/10											
ILLINOIS POWER			System-wide NO _x Emission Annual Caps: 15,000 tons 2005; 14,000 tons 2006; 13,800 tons 2007 onward. System-wide SO ₂ Emission Annual Caps: 66,300 tons 2005 – 2006; 65,000 tons 2007; 62,000 tons 2008 – 2010; 57,000 tons 2011; 49,500 tons 2012; 29,000 tons 2013 onward.															
Baldwin	Illinois	Unit 1			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	0.1	12/31/11	Operate OFA & existing SCR continuously	0.1	08/11/05	Install & continuously operate Baghouse	0.015	12/31/10	By year end 2008, Dynegy will surrender 12,000 SO ₂ emission allowances, by year end 2009 it will surrender 18,000, by year end 2010 it will surrender 24,000, any by year end 2011 and each year thereafter it will surrender 30,000 allowances. If the surrendered allowances result in insufficient remaining allowances allocated to the units comprising the DMG system, DMG can request to surrender			http://www2.epa.gov/enforcement/illinois-power-company-and-dynegy-midwest-generation-settlement	
	Illinois	Unit 2			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	0.1	12/31/11	Operate OFA & existing SCR continuously	0.1	08/11/05	Install & continuously operate Baghouse	0.015	12/31/10					
	Illinois	Unit 3			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	0.1	12/31/11	Operate OFA and/or low NO _x burners	0.12 until 12/30/12; 0.1 from 12/31/12	08/11/05 and 12/31/12	Install & continuously operate Baghouse	0.015	12/31/10					

Company and Plant	State	Unit	Settlement Actions													Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction		
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction		
Havana	Illinois	Unit 6			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	1.2 lbs/mmBTU until 12/30/2012; 0.1 lbs/mmBTU from 12/31/2012 onward	08/11/05 and 12/31/12	Operate OFA and/or low NO _x burners & operate existing SCR continuously	0.1	08/11/05	Install & continuously operate Baghouse, then install ESP or alt. PM equip	For Baghouse: .015 lbs/mmBTU; For ESP: .03 lbs/mmBTU	For Baghouse: 12/31/12; For ESP: 12/31/05	fewer SO ₂ allowances.			
Hennepin	Illinois	Unit 1				1.2	07/27/05	Operate OFA and/or low NO _x burners	*Minimum Extent Practicable	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/06				Settlement requires first installation of ESP at either Unit 1 or 2 on 12/31/2006; and on the other by 12/31/2010.
	Illinois	Unit 2				1.2	07/27/05	Operate OFA and/or low NO _x burners	*Minimum Extent Practicable	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/06				
Vermilion	Illinois	Unit 1				1.2	01/31/07	Operate OFA and/or low NO _x burners	*Minimum Extent Practicable	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/10				
	Illinois	Unit 2				1.2	01/31/07	Operate OFA and/or low NO _x burners	*Minimum Extent Practicable	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/10				
Wood River	Illinois	Unit 4				1.2	07/27/05	Operate OFA and/or low NO _x burners	*Minimum Extent Practicable	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/05				Settlement requires first installation of ESP at either Unit 4 or 5 on 12/31/2005; and on the other by 12/31/2007.

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
	Illinois	Unit 5				1.2	07/27/05	Operate OFA and/or low NO _x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/05					
Kentucky Utilities Company																		
EW Brown Generating Station	Kentucky	Unit 3			Install FGD	97% or 0.100	12/31/10	Install and continuously operate SCR by 12/31/2012, continuously operate low NO _x boiler and OFA.	0.07	12/31/12	Continuously operate ESP	0.03	12/31/10	KU must surrender 53,000 SO ₂ allowances of 2008 or earlier vintage by March 1, 2009. All surplus NO _x allowances must be surrendered through 2020.	SO ₂ and NO _x allowances may not be used for compliance, and emissions decreases for purposes of complying with the Consent Decree do not earn credits.		Annual SO ₂ cap is 31,998 tons through 2010, then 2,300 tons each year thereafter. Annual NO _x cap is 4,072 tons.	http://www2.epa.gov/enforcement/kentucky-utilities-company-clean-air-act-settlement
Salt River Project Agricultural Improvement and Power District (SRP)																		
Coronado Generating Station	Arizona	Unit 1 or Unit 2			Immediately begin continuous operation of existing FGDs on both units, install new FGD.	95% or 0.08	New FGD installed by 1/1/2012	Install and continuously operate low NO _x burner and SCR	0.32 prior to SCR installation, 0.080 after	LNB by 06/01/2009, SCR by 06/01/2014	Optimization and continuous operation of existing ESPs.	0.03	Optimization begins immediately, rate limit begins 01/01/12 (date of new FGD installation)	Beginning in 2012, all surplus SO ₂ allowances for both Coronado and Springville Unit 4 must be surrendered through 2020. The allowances limited by this condition may, however, be used for compliance at a prospective future plant using BACT and otherwise specified in par. 54 of the consent decree.	SO ₂ and NO _x allowances may not be used for compliance, and emissions decreases for purposes of complying with the Consent Decree do not earn credits.		Annual plant-wide NO _x cap is 7,300 tons after 6/1/2014.	http://www2.epa.gov/enforcement/salt-river-project-agriculture-improvement-and-power-district-settlement
	Arizona	Unit 1 or Unit 2			Install new FGD	95% or 0.08	01/01/13	Install and continuously operate low NO _x burner	0.32	06/01/11			Optimization begins immediately, rate limit begins 01/01/13 (date of new FGD installation)					
American Electric Power																		
Eastern System-Wide [Modified Limits for SO ₂]						Annual Cap (tons)	Year											http://www.clerg.gov/airlib/air/press_releases/2013/20130225_aep_cdmod.pdf
						145,000	2016-2018											
						113,000	2019-2021											
						110,000	2022-2025											
						102,000	2026-2028											

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
						Annual Cap (tons)	Year		Annual Cap (tons)	Year								
						94,000	2029 and thereafter											
Eastern System-Wide																		
						450,000	2010											
						450,000	2011											
						420,000	2012											
						350,000	2013											
						340,000	2014											
						275,000	2015											
						260,000	2016											
						235,000	2017											
					184,000	2018												
					174,000	2019 and thereafter												
At least 600MW from various units	West Virginia	Sporn 1 - 4	Retire, retrofit, or re-power	12/31/18													Sporn 1-4 will be retired	
	Virginia	Clinch River 1 - 3																
	Indiana	Tanners Creek 1 - 3																
	West Virginia	Kammer 1 - 3															Kammer 1-3 will be retired	
Amos	West Virginia	Unit 1			Install and continuously operate FGD		12/31/09	Install and continuously operate SCR		01/01/08								
	West Virginia	Unit 2			Install and continuously operate FGD		12/31/10	Install and continuously operate SCR		01/01/09								
	West Virginia	Unit 3			Install and continuously operate FGD		12/31/09	Install and continuously operate SCR		01/01/08								
Big Sandy	Kentucky	Unit 1			Burn only coal with no more than 1.75 lbs/mmBTU annual average		Date of entry	Continuously operate low NO _x burners		Date of entry								
	Kentucky	Unit 2			Install and continuously operate FGD		12/31/15	Install and continuously operate SCR		01/01/09								
Cardinal	Ohio	Unit 1			Install and continuously operate FGD		12/31/08	Install and continuously operate SCR		01/01/09	Continuously operate ESP	0.03	12/31/09					

Company and Plant	State	Unit	Settlement Actions													Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction		
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction		
	Ohio	Unit 2			Install and continuously operate FGD		12/31/08	Install and continuously operate SCR		01/01/09	Continuously operate ESP	0.03	12/31/09				
	Ohio	Unit 3			Install and continuously operate FGD		12/31/12	Install and continuously operate SCR		01/01/09							
Clinch River	Virginia	Units 1 – 3	Units 1 & 2: switch fuels to natural gas ----- Unit 3: Retire	2016 ----- 2015		Plant-wide annual cap: 21,700 tons from 2010 to 2014, then 16,300 after 1/1/2015	2010 – 2014, 2015 and thereafter	Continuously operate low NO _x burners		Date of entry							
Conesville	Ohio	Unit 1	Retire, retrofit, or re-power	Date of entry													
	Ohio	Unit 2	Retire, retrofit, or re-power	Date of entry													
	Ohio	Unit 3	Retire, retrofit, or re-power	12/31/12													
	Ohio	Unit 4			Install and continuously operate FGD		12/31/10	Install and continuously operate SCR		12/31/10							
	Ohio	Unit 5			Upgrade existing FGD	95%	12/31/09	Continuously operate low NO _x burners		Date of entry							
	Ohio	Unit 6			Upgrade existing FGD	95%	12/31/09	Continuously operate low NO _x burners		Date of entry							
Gavin	Ohio	Unit 1			Install and continuously operate FGD		Date of entry	Install and continuously operate SCR		01/01/09							
	Ohio	Unit 2			Install and continuously operate FGD		Date of entry	Install and continuously operate SCR		01/01/09							
Glen Lynn	Virginia	Units 1 – 3	Retire	6/1/15													
	Virginia	Units 5, 6	Retire	6/1/15	Burn only coal with no more than 1.75 lbs/mmBTU annual average		Date of entry	Continuously operate low NO _x burners		Date of entry							
Kammer	West Virginia	Units 1 – 3				Plant-wide annual cap: 35,000	01/01/10	Continuously operate over-fire air		Date of entry							
Kanawha River	West Virginia	Units 1, 2			Burn only coal with no more than 1.75 lbs/mmBTU annual average		Date of entry	Continuously operate low NO _x burners		Date of entry							
Mitchell	West Virginia	Unit 1			Install and continuously operate FGD		12/31/07	Install and continuously operate SCR		01/01/09							

Company and Plant	State	Unit	Settlement Actions													Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction		
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction		
	West Virginia	Unit 2			Install and continuously operate FGD		12/31/07	Install and continuously operate SCR		01/01/09							
Mountaineer	West Virginia	Unit 1			Install and continuously operate FGD		12/31/07	Install and continuously operate SCR		01/01/08							
Muskingum River	Ohio	Units 1 – 4	Retire, retrofit, or re-power	12/31/15													
	Ohio	Unit 5			Install and continuously operate FGD		12/31/15	Install and continuously operate SCR		01/01/08	Continuously operate ESP	0.03	12/31/02				
Picway	Ohio	Unit 9						Continuously operate low NO _x burners		Date of entry							
Rockport	Rockport Units 1 & 2 shall not exceed an Annual Tonnage Limit of 28 MTons of SO ₂ in 2016- 2017, 26 MTons in 2018-2019, 22 MTons in 2020-2025, 18 MTons in 2026-2028 and 10 MTons in 2029 and each year thereafter.																
	Indiana	Unit 1			Install DSI Install and continuously operate FGD		4/16/2015 12/31/2025	Install and continuously operate SCR		12/31/25							
	Indiana	Unit 2			Install DSI Install and continuously operate FGD		4/16/2015 12/31/2028	Install and continuously operate SCR		12/31/28							
Sporn	West Virginia	Unit 5	Retire, retrofit, or re-power	12/31/13													
Tanners Creek	Indiana	Units 1 – 3			Burn only coal with no more than 1.2 lbs/mmBTU annual average		Date of entry	Continuously operate low NO _x burners		Date of entry							
	Indiana	Unit 4			Burn only coal with no more than 1.2% sulfur content annual average		Date of entry	Continuously operate over-fire air		Date of entry							
East Kentucky Power Cooperative Inc.																	
Dale Plant	Kentucky	Unit 1	Retire	2012				Install and continuously operate low NO _x burners by 10/31/2007	0.46	01/01/08				EKPC must surrender 1,000 NO _x allowances immediately under the ARP, and 3,107 under the NO _x SIP Call. EKPC must also surrender 15,311 SO ₂ allowances.			Date of entry
	Kentucky	Unit 2	Retire	2012				Install and continuously operate low NO _x burners by 10/31/2007	0.46	01/01/08							
System-wide	Kentucky	By 12/31/2009, EKPC shall choose whether to: 1) install and continuously operate NO _x controls at Cooper 2 by 12/31/2012 and SO ₂ controls by 6/30/2012 or 2) retire Dale 3 and Dale 4 by 12/31/2012.															
					12-month rolling limit (tons)	Start of 12-month cycle			12-month rolling limit (tons)	Start of 12-month cycle							
																	http://www2.epa.gov/enforcement/east-kentucky-power-cooperative-settlement

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
						57,000	10/01/08		11,500	01/01/08								
						40,000	07/01/11		8,500	01/01/13								
					System-wide 12-month rolling tonnage limits apply	28,000	01/01/13	All units must operate low NO _x boilers	8,000	01/01/15	PM control devices must be operated continuously system-wide, ESPs must be optimized within 270 days of entry date, or EKPC may choose to submit a PM Pollution Control Upgrade Analysis.	0.03	1 year from entry date	All surplus SO ₂ allowances must be surrendered each year, beginning in 2008.	SO ₂ and NO _x allowances may not be used to comply with the Consent Decree. NO _x allowances that would become available as a result of compliance with the Consent Decree may not be sold or traded. SO ₂ and NO _x allowances allocated to EKPC must be used within the EKPC system. Allowances made available due to supercompliance may be sold or traded.			
Spartlock	Kentucky	Unit 1			Install and continuously operate FGD	95% or 0.1	6/30/2011	Continuously operate SCR	0.12 for Unit 1 until 01/01/2013, at which point the unit limit drops to 0.1. Prior to 01/01/2013, the combined average when both units are operating must be no more than 0.1	60 days after entry								
	Kentucky	Unit 2			Install and continuously operate FGD by 10/1/2008	95% or 0.1	1/1/2009	Continuously operate SCR and OFA	0.1 for Unit 2, 0.1 combined average when both units are operating	60 days after entry								
Dale Plant	Kentucky	Unit 3	Retire	2014														
	Kentucky	Unit 4																
Cooper	Kentucky	Unit 1																
	Kentucky	Unit 2			If EKPC opts to install controls rather than retiring Dale, it must install and continuously operate FGD or equiv. technology	95% or 0.10		If EKPC elects to install controls, it must continuously operate SCR or install equiv. technology	0.08 (or 90% if non-SCR technology is used)	12/31/12								EKPC has installed a DFGD on this unit and Dale continues to operate.
Nevada Power Company																		
Beginning 1/1/2010, combined NO _x emissions from Units 5, 6, 7, and 8 must be no more than 360 tons per year.																		

Company and Plant	State	Unit	Settlement Actions														Notes	Reference						
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction									
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date								
Clark Generating Station	Nevada	Unit 5	Units may only fire natural gas																					
	Nevada	Unit 6							Increase water injection immediately, then install and operate ultra-low NO _x burners (ULNBs) or equivalent technology. In 2009, Units 5 and 8 may not emit more than 180 tons combined	5ppm 1-hour average	12/31/09 (ULNB installation), 01/30/10 (1-hour average)													
	Nevada	Unit 7								5ppm 1-hour average	12/31/09 (ULNB installation), 01/30/10 (1-hour average)													
	Nevada	Unit 8								5ppm 1-hour average	12/31/08 (ULNB installation), 01/30/09 (1-hour average)													
Dayton Power & Light																								
Stuart Generating Station	Ohio	Station-wide						Owners may not purchase any new catalyst with SO ₂ to SO ₂ conversion rate greater than 0.5%	0.17 station-wide	30 days after entry					0.030 lbs per unit	07/31/09					NO _x and SO ₂ allowances may not be used to comply with the monthly rates specified in the Consent Decree.			
									0.17 station-wide	60 days after entry date														
									0.10 on any single unit	12/31/12														
									0.15 station-wide	07/01/12														
	0.10 station-wide	12/31/14																						
PSEG FOSSIL, Amended Consent Decree of November 2006																								

Company and Plant	State	Unit	Settlement Actions													Notes	Reference					
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction							
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date				
Kearny	New Jersey	Unit 7	Retire unit	01/01/07																		
	New Jersey	Unit 8	Retire unit	01/01/07																		
Hudson	New Jersey	Unit 2			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	12/31/10	Install Baghouse (or approved technology)	0.015	12/31/10	Allowances allocated to Kearny, Hudson, and Mercer may only be used for the operational needs of those units, and all surplus allowances must be surrendered. Within 90 days of amended Consent Decree, PSEG must surrender 1,230 NO _x Allowances and 8,568 SO ₂ . Allowances not already allocated to or generated by the units listed here. Kearny allowances must be surrendered with the shutdown of those units.								
																			Annual Cap (tons)	Year	Annual Cap (tons)	Year
																			5,547	2007	3,486	2007
																			5,270	2008	3,486	2008
																			5,270	2009	3,486	2009
Mercer	New Jersey	Unit 1			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	01/01/07	Install Baghouse (or approved technology)	0.015	12/31/10									
	New Jersey	Unit 2			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	01/01/07	Install Baghouse (or approved technology)	0.015	12/31/10									
Westar Energy																						
Jeffrey Energy Center	Kansas	All units			Units 1, 2, and 3 have a total annual limit of 6,600 tons of SO ₂ , starting 2011 Units 1, 2, and 3 must all install FGDs by 2011 and operate them continuously. FGDs must maintain a 30-Day Rolling Average Unit Removal Efficiency for SO ₂ of at least 97% or a 30-Day Rolling Average Unit Emission Rate for SO ₂ of no greater than 0.070 lbs/mmBTU.			Units 1-3 must continuously operate Low NO _x Combustion Systems by 2012 and achieve and maintain a 30-Day Rolling Average Unit Emission Rate for NO _x of no greater than 0.180 lbs/mmBTU. One of the three units must install an SCR by 2015 and operate it continuously to maintain a 30-Day Rolling Average Unit Emission Rate for NO _x of no greater than 0.080 lbs/mmBTU. By 2013 Westar shall elect to either (a) install a second SCR on one of the other JEC Units by 2017 or (b) meet a 0.100 lbs/mmBTU Plant-Wide 12-Month Rolling Average Emission Rate for NO _x by 2015			Units 1, 2, and 3 must operate each ESP and FGD system continuously by 2011 and maintain a 0.030 lbs/mmBTU PM Emissions Rate. Units 1 and 2's ESPs must be rebuilt by 2014 in order to meet a 0.030 lbs/mmBTU PM Emissions Rate								http://www2.epa.gov/enforcement/westar-energy-inc-settlement			
Duke Energy																						
Gallagher	Indiana	Units 1 & 3	Retire or repower as natural gas	1/1/2012															http://www2.epa.gov/enforcement/duke-			

Company and Plant	State	Unit	Settlement Actions													Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction		
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction		
		Units 2 & 4			Install Dry sorbent injection technology	80%	1/1/2012										energy-gallagher-plant-clean-air-act-settlement
American Municipal Power																	
Gorsuch Station	Ohio	Units 2 & 3 Units 1 & 4	Elected to Retire Dec 15, 2010 (must retire by Dec 31, 2012)														http://www2.epa.gov/enforcement/american-municipal-power-clean-air-act-settlement
Hoosier Energy Rural Electric Cooperative																	
Ratts	Indiana	Units 1 & 2						Install & continually operate SNCRS	0.25	12/31/2011	Continuously operate ESP						http://www2.epa.gov/enforcement/hoosier-energy-rural-electric-cooperative-inc-settlement
Merom	Indiana	Unit 1			Continuously run current FGD for 90% removal and update FGD for 98% removal by 2012	98%	2012	Continuously operate existing SCRs	0.12		Continuously operate ESP and achieve PM rate no greater than 0.007 by 6/1/12			Annually surrender any NO _x and SO ₂ allowances that Hoosier does not need in order to meet its regulatory obligations			
		Unit 2			Continuously run current FGD for 90% removal and update FGD for 98% removal by 2014	98%	2014			Continuously operate ESP and achieve PM rate no greater than 0.007 by 6/1/13							
Northern Indiana Public Service Co.																	
Bailly	Indiana	Units 7 & 8			Upgrade existing FGD	95% by 01/01/11 97% by 01/01/14 (95% if low sulfur coal only is burned)		OFA & SCR	0.15 lbs/mmBTU by 12/31/10 0.13 lbs/mmBTU by 12/31/13 0.12 lbs/mmBTU by 12/31/15				0.3 lbs/mmBTU (0.015 if a Baghouse is installed)	12/31/2010			http://www2.epa.gov/enforcement/northern-indiana-public-service-company-clean-air-act-settlement
Michigan City	Indiana	Unit 12			FGD	0.1 lbs/mmBTU	12/31/2018	OFA & SCR	0.14 lbs/mmBTU by 12/31/10 0.12 lbs/mmBTU by 12/31/11 0.10 lbs/mmBTU by 12/31/13				0.3 lbs/mmBTU (0.015 if a Baghouse is installed)	12/31/2018			
Schahfer	Indiana	Unit 14			FGD	0.08 lbs/mmBTU	12/31/2013	OFA & SCR	0.14 lbs/mmBTU by 12/31/10 0.12 lbs/mmBTU by 12/31/12 0.10 lbs/mmBTU by 12/31/14				0.3 lbs/mmBTU (0.015 if a baghouse is installed)	12/31/2013			
	Indiana	Unit 15			FGD	0.08 lbs/mmBTU	12/31/2015	LNB/OFA Either: SCR or SNCR	0.16	3/31/2011			0.3 lbs/mmBTU (0.015 if a baghouse is installed)	12/31/2015			

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
	Indiana	Units 17 & 18			Upgrade existing FGD	97%	1/31/2011	LNB/OFA	0.2	3/31/2011		0.3 lbs/mmBTU (0.015 if a baghouse is installed)	12/31/2010					
Dean H Mitchell	Indiana	Units 4, 5, 6, & 11	Retire	12/31/2010														
Tennessee Valley Authority																		
Colbert	Alabama	Units 1-4			FGD		6/30/2016	SCR			6/30/2016							
		Unit 5			FGD		12/31/15	SCR			Effective Date							
Widows Creek	Alabama	Units 1-6	Retire 2 units 7/31/13 Retire 2 units 7/31/14 Retire 2 units 7/31/15															
		Unit 7	Continuously operate FGD				SCR				Effective Date							
		Unit 8	Continuously operate FGD				SCR				Effective Date							
Paradise	Kentucky	Units 1 & 2			Upgrade FGD	93%	12/31/12	SCR			Effective Date							
		Unit 3			Wet FGD		Effective Date	SCR			Effective Date							
Shawnee	Kentucky	Units 1 & 4			FGD	1.2	12/31/17	SCR			12/31/17							
		Units 5-10				1.2	Effective Date											
Allen	Tennessee	Units 1-3			FGD		12/31/18	Continuously operate SCR				0.03 PM Emissions Rate	12/31/18					
Bull Run	Tennessee	Unit 1			Wet FGD		Effective Date	Continuously operate SCR				0.03 PM Emissions Rate	Effective Date					
Cumberland	Tennessee	Units 1 & 2			Wet FGD		Effective Date	Continuously operate SCR										
Gallatin	Tennessee	Units 1-4			FGD		12/31/17	SCR			12/31/17	0.03 PM Emissions Rate	12/31/17					
John Sevier	Tennessee	Units 1 & 2	Retire 2 Units 12/31/12 and 12/31/15															
		Units 3 & 4			FGD		12/31/15	SCR			12/31/15							
Johnsonville	Tennessee	Units 1-10	Retire 6 Units 12/31/15 Retire 4 Units 12/31/17															
Kingston	Tennessee	Units 1-9			FGD		Effective Date	SCR			Effective Date	0.03 PM Emissions Rate	Effective Date					
Wisconsin Public Service																		
Pulliam	Wisconsin	Units 5-6	Retired	6/1/2015		0.750 lbs/mmBTU	1/1/2013 until retirement											http://www2.epa.gov/enforcement/wisconsin-public-

Company and Plant	State	Unit	Settlement Actions														Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction				
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date			
	Wisconsin	Units 7-8				0.750 lbs/mmBTU & plant-wide cap of 2100 tons starting 2016	1/1/2013											The modeled SO ₂ rate in IPM is lower; only tonnage limitation imposed through a constraint.	service-corporation-settlement
Weston	Wisconsin	Unit 1	Retired			0.750 lbs/mmBTU	1/1/2013 until retirement												
	Wisconsin	Units 2	Repower as natural gas	6/1/2015		0.750 lbs/mmBTU	1/1/2013 until retirement												
	Wisconsin	Units 3			ReACT by 12/31/2016	0.750 lbs/mmBTU until 2016 0.080 lbs/mmBTU 2016 onwards	12/31/16	ReACT by 12/31/2016	0.130 lbs/mmBTU until 2016 0.100 lbs/mmBTU 2016 onwards	12/31/16									
	Wisconsin	Units 4			Continuously Operate the existing DFGD & burn only Powder River Basin Coal	0.080 lbs/mmBTU	2/31/2013	Continuously Operate the existing SCR	0.060 lbs/mmBTU	2/31/2013									
Louisiana Generating LLC																			
			Plant-Wide Annual Tonnage Limitations for SO ₂ is 18,950 tons in 2016 and thereafter					Plant-Wide Annual Tonnage Limitations for NO _x is 8,950 tons in 2015 and thereafter											
Big Cajun 2	Louisiana	Unit 1	Retirement, Refueling, Repowering, or Retrofit	04/01/25	install and Continuously Operate DSI —	0.380 lbs/mmBTU [2015]	4/15/2015 [DSI] —	install and Continuously Operate SNCR	0.150 lbs/mmBTU	05/01/14	Continuously Operate each ESP	0.030 lbs/mmBTU	04/15/15					May trade Super-Compliant Allowances, may buy external allowances to comply. *Commencing January 1, 2013, and continuing thereafter, Settling Defendant shall burn only coal with no greater sulfur content than 0.45 percent by weight on a dry basis at Big Cajun II Units 1 and 3. "	http://www2.epa.gov/enforcement/louisiana-generating-settlement
		Unit 2	Refuel/convert to NG fired	04/15/15	install and Continuously Operate Dry FGD	0.070 lbs/mmBTU	4/1/2025 [DFGD]	install and Continuously Operate SNCR	0.150 lbs/mmBTU	05/01/14									
		Unit 3						install and Continuously Operate SNCR	0.135 lbs/mmBTU	05/01/14	Continuously Operate each ESP	0.030 lbs/mmBTU	04/15/15						
Dairyland Power Cooperative																			
Dairyland Power Cooperative shall not exceed an Annual Plant-wide Tonnage Limitation of 6800 tons of NO _x in calendar years 2016, 3700 tons 2017-2019, and 3200 tons in 2020 and thereafter; and an Annual Plant-wide Tonnage Limitation of 6070 tons of SO ₂ in 2016, 6060 tons 2017-2019 and 4580 tons in 2020 and thereafter.																			
Alma	Wisconsin	Unit 1	Cease Burning Coal	06/30/12															http://www2.epa.gov/enforcement/dairyland

Company and Plant	State	Unit	Settlement Actions													Notes	Reference		
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction				
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date	
		Unit 2	Cease Burning Coal	06/30/12															d-power-cooperative-settlement
		Unit 3	Cease Burning Coal	06/30/12															
		Unit 4	Option 2: Retrofit and Regulate both units more stringently	12/31/14	Install and continuously operate DFGD or DSI at Alma 4	1.00 lbs/mmBTU at Alma 4 And a joint cap of 3,737 tons until 2019, and 2,242 tons thereafter. In the event that one retires, Tonnage Cap of 2,136 tons for the remaining unit until 2019 and 1,282 tons thereafter	12/31/2014	Continuously Operate the existing Low NO _x Combustion System (including OFA) and SNCR	0.350 lbs/mmBTU	8/1/2012	Continuously Operate an ESP or FF on Alma Unit 4	0.030 lbs/mmBTU [with ESP]	12/31/14						Dairyland was provided with two options for compliance. It chose Option 2 and it is the one modeled in IPM. Details on Option 1 can be found in the settlement document referenced in the adjoining column.
—	0.015 lbs/mmBTU [with FF] at Alma 4. Joint cap of 112 tons until 2019, and 67 tons thereafter. In the event that one retires, Tonnage Cap of 64 tons for the remaining unit until 2019 and 39 tons thereafter																		
		Unit 5																	
J.P. Madgett	Wisconsin	Unit 1			Install and continuously operate DFGD	0.090 lbs/mmBTU	12/31/14	Continuously Operate existing Low NO _x Combustion System — Install an SCR	0.30 lbs/mmBTU	8/1/2012	Continuously Operate the existing Baghouse	0.0150 lbs/mmBTU	07/01/13						
Genoa	Wisconsin	Unit 1			Continuously Operate the FGD	0.090 lbs/mmBTU	12/31/12	Continuously Operate existing Low NO _x Combustion System including OFA — Install an SNCR	0.14 lbs/mmBTU	12/31/2014	Continuously Operate the existing Baghouse	0.0150 lbs/mmBTU	07/01/13						
Dominion Energy, Inc.																			
In calendar year 2014, and in each calendar year thereafter, Kincaid shall not exceed a Plant-Wide Annual Tonnage Limitation of 3,500 tons of NO _x & 4,400 tons of SO ₂ , and Brayton Point shall not exceed a Plant-Wide Annual Tonnage Limitation of 4,600 tons of NO _x & 4,100 tons of SO ₂ .																			
Brayton Point	Massachusetts	Unit 1			Continuously Operate the existing dry FGD	0.150 lbs/mmBTU	06/01/13	Continuously Operate the SCR, OFA, and LNB	0.080 lbs/mmBTU	05/01/13	Install/Continuously Operate a Baghouse	0.015 lbs/mmBTU [PM by 2013]	06/01/13						http://www2.ea.gov/enforcement/dominion-energy-inc
		Unit 2						Continuously Operate the LNB and OFA	0.280 lbs/mmBTU	05/02/13						0.01 lbs/mmBTU [PM post-2013]			

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
		Unit 3			Continuously Operate dry FGD	0.080 lbs/mmBTU	07/01/13	Continuously Operate the SCR, OFA, and LNB	0.080 lbs/mmBTU	05/01/13	Install/Continuously Operate a Baghouse	0.015 lbs/mmBTU [PM by 2013] 0.01 lbs/mmBTU [PM post-2013]	07/01/13					
Kincaid Power Station	Illinois	Unit 1			Continuously Operate DSI	0.100 lbs/mmBTU	01/01/14	Continuously Operate each SCR and OFA	0.080 lbs/mmBTU	05/01/13	Continuously Operate the ESP	0.030 lbs/mmBTU [PM by 2013] 0.015 lbs/mmBTU [PM by post-2013]	06/01/13					
		Unit 2																
State Line Power Station	Indiana	Unit 3																
		Unit 4	Retire	06/01/12														
Wisconsin Power and Light																		
					Edgewater 3-5- shall not exceed an Annual Tonnage Limitation of 2,500 tons of NO _x in calendar years 2016-2018, and 1100 tons 2019 onwards & an Annual Tonnage Limitation of 12,500 tons of SO ₂ in 2016, 6000 tons 2017-2018 and 1100 tons 2019 onwards. Columbia 1 & 2 shall not exceed an Annual Tonnage Limitation of 5,600 tons of NO _x in calendar years 2016-2018, and 4300 tons 2019 onwards & an Annual Tonnage Limitation of 3290 tons of SO ₂ in 2016 and thereafter.													
Edgewater Generating Station	Wisconsin	Unit 3	Retired	12/31/15		Unit-Specific Annual Tonnage Cap of 700 Tons of SO ₂	05/21/13		Unit-Specific Annual Tonnage Cap of 250 tons of NO _x	05/21/13								
		Unit 4	Retire, Refuel, or Repower	12/31/18		0.700 lbs/mmBTU	05/21/13	Operate SNCR and LNB	0.150 lbs/mmBTU	01/01/14	Continuous Operation of the existing ESP	0.030 lbs/mmBTU	12/31/13					
		Unit 5			Install and continuously operate DFGD	0.075 lbs/mmBTU	12/31/16	Install and continuously operate SCR	0.070 lbs/mmBTU	05/01/13	Install and continuously operate Fabric Filter	0.015 lbs/mmBTU	12/31/16					
Columbia Generating Station	Wisconsin	Unit 1				0.075 lbs/mmBTU	01/01/15	Operation of the Low NO _x Combustion System	0.150 lbs/mmBTU	07/21/13		0.015 lbs/mmBTU	12/31/14					
		Unit 2			Install and continuously operate DFGD	0.075 lbs/mmBTU		Operation of the Low NO _x Combustion System — Install and continuously operate SCR	0.150 lbs/mmBTU — 0.070 lbs/mmBTU	7/21/2013 — 12/31/2018	Install and continuously operate Fabric Filter	0.015 lbs/mmBTU	12/31/14					

<http://www2.epa.gov/enforcement/wisconsin-power-and-light-et-al-settlement>

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
Nelson Dewey Generating Station	Wisconsin	Unit 1	Retire, Refuel, or Repower	12/31/15	commence burning 100% Powder River Basin or equivalent fuel containing ≤ 1.00 lbs/mmBTU of SO ₂	0.800 lbs/mmBTU	05/22/13		0.300 lbs/mmBTU	04/22/13		0.100 lbs/mmBTU	04/22/13				Cease Burning Petcoke and Commence Burning 100% PRB Coal or Equivalent at Nelson Dewey Units 1 and 2.	
		Unit 2	Retire, Refuel, or Repower	12/31/15														
Minnesota Power																		
Boswell	Minnesota	Unit 1	Retire/Repower	12/31/18	FGD	0.70 lbs/mmBTU and 0.03 lb/mmBTU after 12/31/18	07/16/14	Continuously Operate the ROFA and SNCR	0.20 lbs/mmBTU	6/30/2014	Continuously Operate Baghouses	0.015 lb/mmBTU	07/16/14				http://www2.epa.gov/enforcement/minnesota-power-settlement	
	Minnesota	Unit 2	Retire/Repower	12/31/18	FGD	0.70 lbs/mmBTU and 0.03 lb/mmBTU after 12/31/18	07/16/14	Continuously Operate the ROFA and SNCR	0.20 lbs/mmBTU	6/30/2014	Continuously Operate Baghouses	0.015 lb/mmBTU	07/16/14					
	Minnesota	Unit 3			FGD	0.030 lbs/mmBTU	12/31/18	Continuously Operate the Low NO _x Burners, OFA system and SCR control	0.060 lbs/mmBTU	07/16/14	Continuously Operate Baghouses	0.015 lb/mmBTU	07/17/14					
	Minnesota	Unit 4			FGD	0.03	05/31/16	Continuously Operate the Low NO _x Burners, OFA system and SCR	0.120 lbs/mmBTU	07/16/14	Continuously Operate Baghouses	0.015 lb/mmBTU	05/31/16					
Taconite Harbor	Minnesota	Unit 1				0.30 lbs/mmBTU	12/31/2015	Continuously Operate the ROFA systems and SNCR	0.160 lbs/mmBTU	7/16/2014	Continuously Operate ESP	.03 lb/mmBTU	07/16/14					
	Minnesota	Unit 2																
	Minnesota	Unit 3	Retire/Repower/Refueling	12/31/2015														
Laskin	Minnesota	Unit 1				0.200 lb/mmBTU	07/16/14	Continuously Operate the Low NO _x Burners, and OFA systems	0.190 lbs/mmBTU	07/16/14		0.050 lb/mmBTU	07/16/14					
	Minnesota	Unit 2																
Consumer Energy																		
Campbell	Michigan	Unit 1			install and continuously operate DSI	0.350 lb/mmBTU 30-Day Rolling Average ----- 0.290 lb/mmBTU 90-Day Rolling Average	6/30/2016 ----- 12/27/2016	Continuously Operate the Low NO _x Combustion System (including OFA)	0.220 lb/mmBTU 90-Day Rolling Average	11/4/2014	Install and continuously operate Baghouse	.015 lb/mmBTU	04/01/16				http://www2.epa.gov/sites/production/files/2014-09/documents/consumerenergy-co-cd.pdf	
	Michigan	Unit 2			install and continuously operate DSI	0.32 lb/mmBTU	6/30/2017	Continuously Operate an SCR	0.080 lb/mmBTU 90-Day Rolling Average	5/3/2015	Install and continuously operate Baghouse	.015 lb/mmBTU	2/6/2015					

Company and Plant	State	Unit	Settlement Actions													Notes	Reference
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction		
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction		
	Michigan	Unit 3			install and continuously operate FGD	0.085 lb/mmBTU 30-Day Rolling Average ----- 0.07 lb/mmBTU 365-Day Rolling Average	3/1/2017 ----- 12/31/2017	Continuously Operate an SCR	0.080 lb/mmBTU 90-Day Rolling Average	2/6/2015	Install and continuously operate Baghouse	.015 lb/mmBTU	12/31/16				
Cobb	Michigan	Unit 7	Retire	04/15/16													Unit will retire by 04/15/16
	Michigan	Unit 8	Retire	04/15/16													Unit will retire by 04/15/16
Karn	Michigan	Unit 1			Install and continuously operate FGD	0.075 lb/mmBTU	12/31/2015	Continuously Operate the existing SCR	0.080 lb/mmBTU	60 Operating Days after the Date of Entry	Continuously Operate the existing Baghouse	.015 lb/mmBTU					
	Michigan	Unit 2			Install and continuously operate FGD	0.075 lb/mmBTU	4/15/2016	Continuously Operate the existing SCR	0.080 lb/mmBTU	60 Operating Days after the Date of Entry	Continuously Operate the existing Baghouse	.015 lb/mmBTU					
Weadock	Michigan	Unit 7	Retire	04/15/16													Unit will retire by 04/15/16
	Michigan	Unit 8	Retire	04/15/16													Unit will retire by 04/15/16
Whiting	Michigan	Unit 1	Retire	04/15/16													Unit will retire by 04/15/16
	Michigan	Unit 2	Retire	04/15/16													Unit will retire by 04/15/16
	Michigan	Unit 3	Retire	04/15/16													Unit will retire by 04/15/16
Interstate Power and Light																	
For each calendar year as specified below, Defendant shall not exceed the corresponding Prairie Creek Annual Tonnage Limitation for SO ₂ specified below: Each calendar year from 2016 through 2018: 5,500 tons per year Each calendar year from 2019 to 2020: 3,500 tons per year Each calendar year from 2021 through 2025: 3,000 tons per year 2026 and continuing each calendar year thereafter: 100 tons per year																	
For each calendar year as specified below, Defendant's System shall not exceed the corresponding System-Wide Annual Tonnage Limitation for SO ₂ specified below: 2015: 39,000 tons per year 2016: 23,500 tons per year Each calendar year from 2017 through 2018: 14,100 tons per year Each calendar year from 2019 through 2020: 12,000 tons per year 2021: 11,000 tons per year Each calendar year from 2022 through 2025: 6,000 tons per year 2026 and continuing each calendar year thereafter: 3,250 tons per year																	
For each calendar year as specified below, Defendant shall not exceed the corresponding Prairie Creek Annual Tonnage Limitation for NO _x specified below: Each calendar year from 2015 through 2018: 3,250 tons per year Each calendar year from 2019 through 2025: 2,650 tons per year 2026 and continuing each calendar year thereafter: 1,500 tons per year																	
For each calendar year as specified below, Defendant's System shall not exceed the corresponding System-Wide Annual Tonnage Limitation for NO _x specified below: Each calendar year from 2015 through 2017: 11,500 tons per year Each calendar year from 2018 through 2019: 10,500 tons per year 2020: 7,500 tons per year 2021: 7,250 tons per year 2022 and continuing each calendar year thereafter: 6,800 tons per year																	
Lansing	Iowa	Unit 1	Retire	2016													
	Iowa	Unit 2	Retire	2016													

Company and Plant	State	Unit	Settlement Actions										Allowance Retirement	Allowance Restriction	Effective Date	Notes	Reference			
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control									
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate						Effective Date		
	Iowa	Unit 3	Retire	2016																
	Iowa	Unit 4			Continuous Operation of a DFGD	0.075 lb/mmBTU	12/31/2016	Continuously Operate the existing SCR	0.090 lb/mmBTU — 0.080 lb/mmBTU	01/31/2015 — 12/30/2015	Continuous Operation of a Baghouse	0.015 lb/mmBTU	12/31/2016						https://www.epa.gov/sites/production/files/2015-07/documents/interstatepowerandlightcd.pdf	
Ottumwa	Iowa	Unit 1			Continuous Operation of a DFGD	0.075 lb/mmBTU	12/31/2015	Install an SCR	0.160 lb/mmBTU — 0.080 lb/mmBTU	09/15/2015 — 12/31/2019	Continuous Operation of a Baghouse	0.015 lb/mmBTU	12/31/2015							
Milton L Kapp	Iowa	Unit 1	Retire	2016																
	Iowa	Unit 2	Retire or Refuel	08/31/2015		0.750 lb/mmBTU	09/15/2015		0.150 lb/mmBTU	09/15/2015										
Sutherland	Iowa	Unit 1	Retire or Repower	06/01/2019																
	Iowa	Unit 2	Retire	2016																
	Iowa	Unit 3	Retire or Repower	06/01/2019																
Sixth Street	Iowa	Unit 1-5	Retire	2016																
Dubuque	Iowa	Unit 1	Retire or Repower	06/01/2019																
	Iowa	Unit 5	Refuel	07/15/2015																
	Iowa	Unit 6	Retire or Repower	06/01/2019																
Burlington	Iowa	Unit 1	Retire or Refuel	12/31/2021		0.750 lb/mmBTU	09/15/2015		0.180 lb/mmBTU	09/15/2015	Continuously Operate the ESP	0.030 lb/mmBTU	01/15/2016							
Prairie Creek	Iowa	Unit 1	Retire or Refuel	12/31/2025		0.900 lb/mmBTU (Unit 1 and Unit 2 combined)	09/15/2015		0.600 lb/mmBTU	09/15/2015	Continuously Operate the ESP	0.030 lb/mmBTU (Unit 1 and Unit 2 combined)	10/15/2015							
	Iowa	Unit 2	Retire or Refuel	12/31/2025					0.600 lb/mmBTU	09/15/2015	Continuously Operate the ESP									
	Iowa	Unit 3	Retire or Refuel	12/31/2025		0.700 lb/mmBTU	09/15/2015		0.400 lb/mmBTU	09/15/2015	Continuously Operate the ESP	0.030 lb/mmBTU	10/15/2015							
	Iowa	Unit 4	Retire or Refuel	06/01/2018		0.700 lb/mmBTU	09/15/2015		0.400 lb/mmBTU	09/15/2015	Continuously Operate the ESP	0.030 lb/mmBTU	10/15/2015							
Duke Energy																				
Buck	North Carolina	Unit 3	Retire	09/2015																
	North Carolina	Unit 4	Retire	09/2015																
	North Carolina	Unit 5	Retire	09/2015																
Cliffside	North Carolina	Unit 1	Retire	09/2015																
	North Carolina	Unit 2	Retire	09/2015																
	North Carolina	Unit 3	Retire	09/2015																
	North Carolina	Unit 4	Retire	09/2015																
																			Except as provided in this Consent Decree, beginning in calendar year 2016 and continuing each calendar year thereafter, Defendant shall not sell, bank, trade, or transfer its interest in any NO _x or SO Allowances allocated to Allen Unit 1, Allen Unit 2, Buck Unit 3, Buck Unit 4, Buck Unit 5, Cliffside Unit 1, Cliffside Unit 2,	https://www.epa.gov/sites/production/files/2015-09/documents/duke-energy-consent-decree-civil-

Company and Plant	State	Unit	Settlement Actions													Notes	Reference	
			Retire/Repower		SO ₂ control			NO _x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction			Effective Date
Dan River	North Carolina	Unit 3	Retire	09/2015													Cliffside Unit 3, Cliffside Unit 4, Dan River Unit 3, Riverbend Unit 4, Riverbend Unit 6, and Riverbend Unit 7. Beginning in calendar year 2016, and continuing each calendar year thereafter, Defendant shall Surrender all NO _x and SO ₂ Allowances allocated to Allen Unit 1, Allen Unit 2, Buck Unit 3, Buck Unit 4, Buck Unit 5, Cliffside Unit 1, Cliffside Unit 2, Cliffside Unit 3, Cliffside Unit 4, Dan River Unit 3, Riverbend Unit 4, Riverbend Unit 6, and Riverbend Unit 7 for that calendar year that Defendant does not need to meet federal and/or state CAA regulatory requirements for those Units.	action-1cv1262_0.pdf
Riverbend	North Carolina	Unit 4	Retire	09/2015														
	North Carolina	Unit 6	Retire	09/2015														
	North Carolina	Unit 7	Retire	09/2015														
Allen	North Carolina	Unit 1	Retire	12/31/2024	Continuously Operate the existing FGD	0.120 lb/mmBTU	01/2017	Continuously Operate the existing SNCR	0.250 lb/mmBTU — 600 tons per year	01/2017 — 2016								
	North Carolina	Unit 2	Retire	12/31/2024	Continuously Operate the existing FGD	0.120 lb/mmBTU	01/2017	Continuously Operate the existing SNCR	0.250 lb/mmBTU — 600 tons per year	01/2017 — 2016								
	North Carolina	Unit 3	Retire	12/31/2024														
Arizona Public Service Company																		
Four Corners	New Mexico	4				6800 tons per year	2019	Continuously Operate the SCR	0.080 lb/MMBtu ----- 4968 tpy	2019							https://www.epa.gov/sites/production/files/2015-06/documents/fourcorners-cd.pdf	

Table 3-15 State Settlements in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Company and Plant	State	Unit	State Enforcement Actions														Notes
			Retire/Repower		SO ₂ Control			NO _x Control			PM Control			Mercury Control			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	
Old AES																	
			If the MPC project is discontinued at Greenidge Unit 4 by 12/31/2009, Unit 4 will be subject to the following SO ₂ emission caps: 2005 will be 12,125 tons, 2006 will be 11,800 tons, 2007 will be 11,475 tons, 2008 will be 11,150 tons, and 2009 will be 10,825 tons. By 12/31/2009, AES shall control, repower, or cease operations at Westover Unit 7. Beginning in 2005, Unit 8 will be subject to the following SO ₂ emission caps: 2005 is 9500 tons, 2006 is 9250, 2007 is 9000, 2008 is 8750, 2009 is 8500 tons.														http://www.ag.ny.gov/press-release/governor-and-attorney-general-announce-new-yorks-largest-coal-plants-slash-pollution
Greenidge	New York	Unit 4	Update: as of May 2009, CONSOL and AES describe the Greenidge Unit 4 MPC effort as a success.														http://investor.aes.com/phoenix.zhtml?c=202639&p=irol-newsArticle&ID=1274075&highlight=
			Retired	2011	Install FGD	90%	09/01/07	Install SCR	0.15	09/01/07							
	New York	Unit 3	Retired	2011	Install BACT		12/31/09	Install BACT		12/31/09						Unit has retired	
Westover			Update: as of May 2009, NO _x emissions appear to be above the specified 0.15 lbs/mmBtu														http://www.powermag.com/print/environmental/Apply-the-fundamentals-to-improve-emissions-performance_574.html
	New York	Unit 8	Retired	2010		90%	12/31/10	Install SCR	0.15	12/31/10						Unit has retired	
	New York	Unit 7	Retired	2010	Install BACT		12/31/09	Install BACT		12/31/09						Unit has retired	
Hickling	New York	Unit 1	Retired	2010	Install BACT		05/01/07	Install BACT		05/01/07						Unit has retired	
	New York	Unit 2	Retired	2010	Install BACT		05/01/07	Install BACT		05/01/07						Unit has retired	
Cayuga	New York	Unit 1			FGD			SCR	Meets System Wide RACT		ESP	98%					
	New York	Unit 2			FGD			LN Concentric Firing	Meets System Wide RACT		ESP	98%					
Jennison	New York	Unit 1	Retired	2010	Install BACT		05/01/07	Install BACT		05/01/07						Unit has retired	
	New York	Unit 2	Retired	2010	Install BACT		05/01/07	Install BACT		05/01/07						Unit has retired	
Niagara Mohawk Power																	
			NRG shall comply with the below annual tonnage limitations for its Huntley and Dunkirk Stations: In 2005 59,537 tons of SO ₂ and 10,777 tons of NO _x , in 2006 34,230 of SO ₂ and 6,772 of NO _x , in 2007 30,859 of SO ₂ and 6,211 of NO _x , in 2008 22,733 tons of SO ₂ and 6,211 tons of NO _x , in 2009 19,444 of SO ₂ and 5,388 of NO _x , in 2010 and 2011 19,444 of SO ₂ and 4,861 of NO _x , in 2012 16,807 of SO ₂ and 3,241 of NO _x , 2013 and 14,169 of SO ₂ and 3,241 of NO _x , thereafter.														http://www.ag.ny.gov/press-release/governor-and-attorney-general-announce-new-yorks-largest-coal-plants-slash-pollution
Huntley	New York	Units 63 – 66	Retire	Before 2008													
Public Service Co. of NM																	
San Juan	New Mexico	Unit 1			State-of-the-art technology	90%	10/31/08	State-of-the-art technology	0.3	10/31/08	Operate	0.015	12/31/09	Design activated		12/31/09	All four units have installed Wet Scrubbers. Unit 1 and 4 NO _x controls
	New Mexico	Unit 2					03/31/09			03/31/09	Baghouse and		12/31/09		12/31/09		

Company and Plant	State	Unit	State Enforcement Actions														Notes
			Retire/Repower		SO ₂ Control			NO _x Control			PM Control			Mercury Control			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	
	New Mexico	Unit 3					04/30/08			04/30/08	demister technology		04/30/08	carbon injection technology (or comparable tech)		04/30/08	[SNCR] are hardwired into EPA Base Case. http://nmsierraclub.org/sites/default/files/2005-10/San_Juan_final_decrease_entered%20%282%29.pdf http://www.grandcanyontrust.org/media/PDF/air/2-2-04%20Decision.pdf
	New Mexico	Unit 4					10/31/07			10/31/07			10/31/07		10/31/07		
Public Service Co of Colorado																	
Comanche	Colorado	Unit 1			Install and operate FGD	0.1 lbs/mmBtu combined average	07/01/09	Install low-NO _x emission controls	0.15 lbs/mmBtu combined average	07/01/09				Install sorbent injection technology		07/01/09	Comanche units 1 and 2 taken together shall not exceed a 0.15 heat rate for NO _x , nor 0.10 for SO ₂ no later than 180 days after initial start-up of control equipment, or by 7/01/2009, whichever is earlier. http://content.sierraclub.org/coal/sites/content.sierraclub.org/coal/files/elp/docs/comanche_agree-sign_2004-12-02.pdf
	Colorado	Unit 2			Install and operate FGD		07/01/09	Install low-NO _x emission controls		07/01/09				Install sorbent injection technology		07/01/09	
	Colorado	Unit 3			Install and operate FGD	0.1 lbs/mmBtu		Install and operate SCR	0.08		Install and operate a fabric filter dust collection system	0.013		Install sorbent injection technology		Within 180 days of start-up	
Rochester Gas & Electric																	
Russell Plant	New York	Units 1 - 4	Retire all units														http://www.ag.ny.gov/press-release/cuomo-announces-settlement-close-rochester-gas-electrics-coal-burning-russell-power
Mirant New York																	
Lovett Plant	New York	Unit 1	Retire	05/07/07													http://www.nytimes.com/2007/05/11/nyregion/11plant.html?_r=1&pagewanted=print
	New York	Unit 2	Retire	04/30/08													Retirements are pursuant to a 2003 consent decree, and the plant's failure to comply with the required reductions.
TVA																	
Allen	Tennessee	Units 1 - 3			Remove from Service, FGD, or Retire		12/31/2018	Install SCR		Effective Date							http://www2.epa.gov/sites/production/files/documents/tvacoal-fired-cd.pdf
Bull Run	Tennessee	Unit 1			Install Wet FGD		Effective Date	Install SCR		Effective Date							
Colbert	Alabama	Units 1 - 4			Remove from Service, FGD, Repower to Renewable Biomass, or Retire		6/30/2016	Remove from Service, SCR, Repower to Renewable Biomass, or Retire		6/30/2016							
		Unit 5			Remove from Service, FGD, or Retire		12/31/2015	Install SCR		Effective Date							
Cumberland	Tennessee	Units 1 & 2			Install Wet FGD		Effective Date	Install SCR		Effective Date							
Gallatin	Tennessee	Units 1 - 4			FGD, Repower to Renewable Biomass, or Retire		12/31/2017	Install SCR, Repower to Renewable Biomass, or Retire		12/31/2017							
John Sevier	Tennessee	Units 1 & 2	Retire	12/31/2012													

Company and Plant	State	Unit	State Enforcement Actions													Notes		
			Retire/Repower		SO ₂ Control			NO _x Control			PM Control			Mercury Control				
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate		Effective Date	
		Units 3 & 4	Remove from Service	12/31/2012	FGD, Repower to Renewable Biomass, or Retire		12/31/2015	Install SCR, Repower to Renewable Biomass, or Retire		12/31/2015								
Johnsonville	Tennessee	Units 1 - 10	Retire	6 Units by 12/31/15, 4 Units by 12/31/18														
Kingston	Tennessee	Units 1 - 9			Install Wet FGD		Effective Date	Install SCR		Effective Date								
Paradise	Kentucky	Units 1 & 2			Upgrade FGD	93% Removal	12/31/2012	Install SCR		Effective Date								
		Unit 3			Install Wet FGD		Effective Date	Install SCR		Effective Date								
Shawnee	Kentucky	Units 1 & 4			FGD, Repower to Renewable Biomass, or Retire		12/31/2017	Install SCR, Repower to Renewable Biomass, or Retire		12/31/2017								
Widows Creek	Alabama	Units 1 & 2	Retire	7/31/2013														
		Unit 3 & 4	Retire	7/31/2014														
		Units 5 & 6	Retire	7/31/2015														
		Units 7 & 8				Install Wet FGD		Effective Date	Install SCR		Effective Date							
RC Cape May Holdings, LLC																		
B L England	New Jersey	Unit 1	Retire/Repower	05/01/14														http://www.nj.gov/dep/docs/20120613104728.pdf
		Unit 2	Retire/Repower	05/01/17	FGD			SNCR & OFA	0.42 lb/mmBtu									
First Energy																		
Harrison	West Virginia	1,3			FGD			SCR	0.25 lb/MMBtu, 30-day rolling average, Annual basis 0.20 lb/MMBtu 30-day rolling average, Ozone Season basis	5/26/2016				ESP				Permit R13-2988A
		2							0.25 lb/MMBtu, 30-day rolling average, Annual basis 0.20 lb/MMBtu 30-day rolling average, Ozone Season basis For Unit 2 boiler only, during the five consecutive 30 day periods of May through September 2016, preceding and during a catalyst replacement: 0.28 lb/mmBtu	5/26/2016							Permit R13-2988A	

Company and Plant	State	Unit	State Enforcement Actions														Notes		
			Retire/Repower		SO ₂ Control			NO _x Control			PM Control			Mercury Control					
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date			
										on a 30 day rolling average.									
Pleasants	West Virginia	1,2			FGD				SCR	0.25 lb/MMBtu, 30-day rolling average, Annual basis 0.20 lb/MMBtu 30-day rolling average, Ozone Season basis	5/26/2016				ESP				Appeal No. 16-01-AQB, Permit R13-3082A

Table 3-16 Citizen Settlements in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Company and Plant	State	Unit	Citizen Suits Provided by DOJ														Notes														
			Retire/Repower		SO ₂ control			NO _x Control			PM Control			Mercury Control																	
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date															
SWEPCO (AEP)																															
Welsh	Texas	Units 1-3															SWEPCO may attempt to demonstrate that PM CEMs are infeasible after two years of operation. http://www.ocefoundation.org/PDFs/ConsentDecree&CLtoDOJ.pdf														
Allegheny Energy																															
Hatfield's Ferry	Pennsylvania	Unit 1			Install and operate wet FGD	6/30/2010				Install and operate sulfur trioxide injection systems, improve ESP performance	0.1 lbs/mmBtu in 2006, then 0.075 lbs per hour (filterable) and 0.1 lbs/mmBtu for particles less than ten microns in 2010	7/31/2006 and 6/30/2010			11/31/2006 and 6/30/2010		http://www.pennfuture.org/legal_detail.aspx?Type=A&LegalCaseID=18#StartHere														
	Pennsylvania	Unit 2																													
	Pennsylvania	Unit 3																													
Wisconsin Public Service Corp																															
Pulliam	Wisconsin	Unit 3	Retire	12/31/2007													http://milwaukee.bizjournals.com/milwaukee/stories/2006/10/23/daily29.html														
	Wisconsin	Unit 4																													
University of Wisconsin																															
Charter Street Heating Plant	Wisconsin		Repower to burn 100% biomass	12/31/2012													Sierra Club suit was based on NSR. http://wisconsin.sierraclub.org/PDF/press/112607_PR_WIStateOwnedCoalSettlement.pdf														
Tucson Electric Power																															
Springerville Plant	Arizona	Unit 1			Dry FGD, 85% reduction required	12/31/2006	0.27 lbs/mmBtu	SCR, LNB	12/31/2006	0.22 lbs/mmBtu	12/31/2006	0.03 lbs/mmBtu	1/1/2006					Lawsuit filed by Grand Canyon Trust. Consent decree is not published. For the compliance details, see the EPA's own copy of the plant's permit revisions: http://xrl.us/springerville and http://xrl.us/springerville2													
	Arizona	Unit 2																													
	Arizona	Unit 3																													
	Arizona	Unit 4																		Four-unit cap of 10,662 tons per year once units 3 and 4 are operational			Four-unit cap of 8,940 tons per year once units 3 and 4 are operational								
Kansas City Board of Public Utilities																															
Quindaro	Kansas	Units 1	Cease burning coal/Convert to natural gas	04/16/15													http://www.bpu.com/AboutBPU/MediaNewsReleases/BPUUnifiedGovernmentSettleThreatenedLawsuit.aspx http://www.platts.com/RSSFeedDetailedNews/RSSFeed/ElectricPower/21193551														
	Kansas	Units 2																													
Nearman	Kansas	Unit 1								Install and continuously operate a baghouse	0.01 lbs/mmBtu	09/01/17					"end coal-fired operations at two coal units totaling 167 MW at its Quindaro station by April 2015 and to install a baghouse at its 232-MW Nearman-1 coal unit by September 2017." "BPU spokesman David Mehlhoff said the muni plans to convert the Quindaro-1 and -2 coal units to only natural gas firing, probably by April 2015; both units currently have dual-fuel capabilities."														

Company and Plant	State	Unit	Citizen Suits Provided by DOJ													Notes		
			Retire/Repower		SO ₂ control			NO _x Control			PM Control			Mercury Control				
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate		Effective Date	
MidAmerican Energy Company																		
Walter Scott, Jr Energy Center	Iowa	Units 1	Retired	2015												http://www.sec.gov/Archives/edgar/data/928576/00092857613000014/lcmec33113form10-q.htm *MidAmerican Energy has committed to cease burning solid fuel, such as coal, at its Walter Scott, Jr. Energy Center Units 1 and 2, George Neal Energy Center Units 1 and 2 and Riverside Energy Center by April 16, 2016...The George Neal Energy Center Unit 1 and Riverside Energy Center currently have the capability to burn natural gas in the production of electricity, although under current operating and economic conditions, production utilizing natural gas would be very limited*		
	Iowa	Units 2																
George Neal Energy Center	Iowa	Units 1	Cease burning coal/Convert to natural gas	04/16/16														
	Iowa	Units 2																
Riverside Energy Center	Iowa	Units 7																
	Iowa	Units 8																
	Iowa	Units 9																
Dominion Energy																		
Salem Harbor	Massachusetts	Unit 1-4			Retire	12/31/2011 for units 1&2 6/1/2014 for units 3&4												
Duke Energy																		
Wabash River	Indiana	Unit 2-5			Retire	2014												http://www.duke-energy.com/about-us/retired-coal-units-potential-retirements.asp
Wabash River	Indiana	Unit 6	Coal to Gas Conversion	6/12/2018														
KCPL																		
La Cygne	Kansas	Units 1				0.1 lbs/MMBtu	2015		0.13 lbs/MMBtu	2015								
		Units 2																
Iatan	Kansas	Units 1				0.07 lbs/MMBtu	10/27/2018		0.09 lbs/MMBtu	10/27/2018						Sierra Club Agreement with KCPL to allow construction of Iatan 2 and retrofit of Iatan 1. The accord limits were revised into the PSD permit on 10-27-2008 and are federally enforceable.		
		Units 2				0.06 lbs/MMBtu	10/27/2018		0.07 lbs/MMBtu	10/27/2018								

Table 3-17 Renewable Portfolio Standards in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Regional Renewable Portfolio Standards- AEO 2016							
NEMS Region	IPM Regions Covered	Units	2020	2023	2025	2028	2030-2050
ERCOT (1)	ERC_REST, ERC_FRNT, ERC_GWAY, ERC_WEST	%	4.4%	4.4%	4.4%	4.4%	4.4%
MROE (3)	MIS_WUMS (42%)	%	13.0%	13.0%	13.0%	13.1%	13.1%
MROW (4)	MAP_WAUE, MIS_IA, MIS_MIDA, MIS_MNWI, MIS_MAPP, SPP_NEBR	%	8.7%	8.7%	9.5%	9.5%	9.6%
NEWE (5)	NENG_CT, NENGREST, NENG_ME	%	17.9%	18.9%	19.5%	20.5%	21.2%
NYCW (6), NYLI (7), NYUP (8)	NY_Z_J, NY_Z_K, NY_Z_C&E, NY_Z_F, NY_Z_G-I, NY_Z_A&B	%	24.6%	24.6%	24.5%	24.5%	24.6%
RFCE (9)	PJM_EMAC, PJM_PENE, PJM_SMAC, PJM_WMAC	%	14.0%	15.2%	15.3%	15.4%	15.4%
RFCM (10)	MIS_LMI	%	10.0%	10.0%	9.9%	10.0%	10.0%
RFCW (11)	MIS_INKY (90%), MIS_WUMS (58%), PJM_West, PJM_AP, PJM_ATSI, PJM_COMD	%	7.1%	9.0%	10.2%	10.8%	10.9%
SRDA (12)	S_D_AMSO, S_D_N_AR, S_D_REST, S_D_WOTA, SPP_WEST (10%)	%	0.6%	0.6%	0.6%	0.6%	0.6%
SRGW (13)	MIS_IL, MIS_MO, SPP_N (3%)	%	11.1%	14.8%	16.3%	17.1%	17.1%
SRCE (15)	S_C_KY, S_C_TVA, MIS_INKY (10%)	%	0.0%	0.0%	0.0%	0.0%	0.0%
SRVC (16)	PJM_Dom, S_VACA	%	4.4%	5.2%	5.2%	5.2%	5.2%
SPNO (17)	SPP_N (97%)	%	2.6%	3.8%	3.8%	3.8%	3.8%
SPSO (18)	SPP_SE, SPP_SPS, SPP_WEST (90%), SPP_KIAM	%	2.1%	2.2%	2.2%	2.2%	2.2%
AZNM (19)	WECC_AZ, WECC_IID, WECC_NM, WECC_SNV	%	9.1%	9.9%	11.5%	11.6%	11.8%
CAMX (20)	WEC_LADW, WEC_CALN, WEC_SDGE, WECC_SF, WECC_SCE	%	33.0%	38.3%	41.6%	46.5%	50.0%
NWPP (21)	WECC_ID, WECC_MT, WECC_NNV, WECC_PNW, WECC_UT, WECC_WY (58%)	%	9.7%	9.7%	11.3%	11.4%	12.6%
RMPA (22)	WECC_CO, WECC_WY (42%)	%	18.7%	18.5%	18.5%	18.6%	18.67%

Regional RPS Solar Carve-outs							
NEMS Region	IPM Regions Covered	Units	2020	2023	2025	2028	2030-2050
ERCOT (1)	ERC_REST, ERC_FRNT, ERC_GWAY, ERC_WEST	%	-	-	-	-	-
MROE (3)	MIS_WUMS (42%)	%	-	-	-	-	-
MROW (4)	MAP_WAUE, MIS_IA, MIS_MIDA, MIS_MNWI, MIS_MAPP, SPP_NEBR	%	0.46%	0.46%	0.46%	0.46%	0.47%
NEWE (5)	NENG_CT, NENGREST, NENG_ME	%	0.18%	0.18%	0.18%	0.18%	0.18%
NYCW (6), NYLI (7), NYUP (8)	NY_Z_J, NY_Z_K, NY_Z_C&E, NY_Z_F, NY_Z_G-I, NY_Z_A&B	%	0.00%	0.00%	0.00%	0.00%	0.00%
RFCE (9)	PJM_EMAC, PJM_PENE, PJM_SMAC, PJM_WMAC	%	1.64%	1.77%	1.83%	1.91%	1.91%
RFCM (10)	MIS_LMI	%	-	-	-	-	-
RFCW (11)	MIS_INKY (90%), MIS_WUMS (58%), PJM_West, PJM_AP, PJM_ATSI, PJM_COMD	%	0.35%	0.44%	0.50%	0.53%	0.54%
SRDA (12)	S_D_AMSO, S_D_N_AR, S_D_REST, S_D_WOTA, SPP_WEST (10%)	%	-	-	-	-	-
SRGW (13)	MIS_IL, MIS_MO, SPP_N (3%)	%	0.54%	0.71%	0.80%	0.84%	0.85%
SRCE (15)	S_C_KY, S_C_TVA, MIS_INKY (10%)	%	0.001%	0.001%	0.001%	0.001%	0.001%
SRVC (16)	PJM_Dom, S_VACA	%	0.09%	0.09%	0.09%	0.09%	0.09%
SPNO (17)	SPP_N (97%)	%	0.05%	0.08%	0.08%	0.08%	0.08%
SPSO (18)	SPP_SE, SPP_SPS, SPP_WEST (90%), SPP_KIAM	%	0.17%	0.17%	0.17%	0.17%	0.17%
AZNM (19)	WECC_AZ, WECC_IID, WECC_NM, WECC_SNV	%	0.63%	0.62%	0.65%	0.66%	0.66%
CAMX (20)	WEC_LADW, WEC_CALN, WEC_SDGE, WECC_SF, WECC_SCE	%	-	-	-	-	-
NWPP (21)	WECC_ID, WECC_MT, WECC_NNV, WECC_PNW, WECC_UT, WECC_WY (58%)	%	0.05%	0.05%	0.06%	0.06%	0.06%
RMPA (22)	WECC_CO, WECC_WY (42%)	%	1.52%	1.51%	1.51%	1.51%	1.52%

Notes:

The Renewable Portfolio Standard percentages are applied to modeled electricity sale projections.
 The Solar Carve-out constraints only apply to units from the following states: DC, IL, MA, MD, MN, MO, NC, NH, NM, NV, OH, PA
 SRVC (16) standards are adjusted to account for swine waste and poultry waste set-asides in NC RPS.

Table 3-19 BART Regulations included in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Colstrip	6076_B_1	BART NO _x	0.15 lb/MMBtu		2018	2018	Montana
Colstrip	6076_B_2	BART NO _x	0.15 lb/MMBtu		2018	2018	Montana
Comanche	470_B_1	BART NO _x	0.2 lb/MMBtu	0.12 lb/MMBtu 0.10 lb/MMBtu combined on annual average	2018	2018	Colorado
Comanche	470_B_2	BART NO _x	0.2 lb/MMBtu	0.12 lb/MMBtu 0.10 lb/MMBtu combined on annual average	2018	2018	Colorado
Craig	6021_B_C1	BART NO _x & BART SO ₂	0.28 lb/MMBtu	0.11 lb/MMBtu	2021	2018	Colorado
Craig	6021_B_C2	BART NO _x & BART SO ₂	0.08 lb/MMBtu	0.11 lb/MMBtu	2018	2018	Colorado
Four Corners	2442_B_1	BART NO _x : Shut down by 2013	0.05 lb/MMBtu	Actual emissions	2018	2018	New Mexico
Four Corners	2442_B_2	BART NO _x : Shut down by 2013	0.05 lb/MMBtu	Actual emissions	2018	2018	New Mexico
Four Corners	2442_B_3	BART NO _x : Shut down by 2013	0.05 lb/MMBtu	Actual emissions	2018	2018	New Mexico
Four Corners	2442_B_4	BART NO _x	0.098 lb/MMBtu	Actual emissions	2018	2018	New Mexico
Four Corners	2442_B_5	BART NO _x	0.098 lb/MMBtu	Actual emissions	2018	2018	New Mexico
Gerald Gentleman	6077_B_1	BART NO _x	0.23 lb/MMBtu	TBD	2018	2018	Nebraska
Gerald Gentleman	6077_B_2	BART NO _x	0.23 lb/MMBtu	TBD	2018	2018	Nebraska
Hayden	525_B_H1	BART NO _x	0.08 lb/MMBtu	0.13 lb/MMBtu	2018	2018	Colorado
Hayden	525_B_H2	BART NO _x	0.07 lb/MMBtu	0.13 lb/MMBtu	2018	2018	Colorado
J E Corette Plant	2187_B_2	BART NO _x	0.35 lb/MMBtu		2018	2018	Montana
Martin Drake	492_B_5	BART NO _x	0.31 lb/MMBtu	0.26 lb/MMBtu	2018	2018	Colorado
Martin Drake	492_B_6	BART NO _x	0.32 lb/MMBtu	0.13 lb/MMBtu	2018	2018	Colorado
Martin Drake	492_B_7	BART NO _x	0.32 lb/MMBtu	0.13 lb/MMBtu	2018	2018	Colorado
Nebraska City	6096_B_1	BART NO _x	0.23 lb/MMBtu		2018	2018	Nebraska
Reid Gardner	2324_B_1	BART NO _x	0.20 lb/MMBtu		2018	2018	Nevada
Reid Gardner	2324_B_2	BART NO _x	0.20 lb/MMBtu		2018	2018	Nevada
Reid Gardner	2324_B_3	BART NO _x	0.20 lb/MMBtu		2018	2018	Nevada
San Juan	2451_B_1	BART NO _x	0.23 lb/MMBtu	Actual emissions	2018	2018	New Mexico
San Juan	2451_B_2	BART NO _x shut down by 2018	0.11 lb/MMBtu	Actual emissions	2018	2018	New Mexico
San Juan	2451_B_3	BART NO _x shut down by 2018	0.11 lb/MMBtu	Actual emissions	2018	2018	New Mexico
San Juan	2451_B_4	BART NO _x	0.23 lb/MMBtu	Actual emissions	2018	2018	New Mexico

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Tecumseh Energy Center	1252_B_10	BART NO _x	0.18 lb/MMBtu		2018	2018	Kansas
Apache Station	160_B_2	BART NO _x & BART SO ₂	0.085 lb/MMBtu	0.15 lb/MMBtu	12/1/17	12/1/16	Arizona
Apache Station	160_B_3	BART NO _x & BART SO ₂	0.23 lb/MMBtu	0.15 lb/MMBtu	12/1/17	12/1/16	Arizona
Cherokee	469_B_4	BART NO _x & BART SO ₂	0.12 lb/MMBtu	7.81 tpy (12 month rolling)	2018	2018	Colorado
Cholla	113_B_2	BART NO _x & BART SO ₂	0.055 lb/MMBtu across 3 units	0.15 lb/MMBtu	12/1/17	12/5/13	Arizona
Cholla	113_B_3	BART NO _x & BART SO ₂	0.055 lb/MMBtu across 3 units	0.15 lb/MMBtu	12/1/17	12/5/13	Arizona
Cholla	113_B_4	BART NO _x & BART SO ₂	0.055 lb/MMBtu across 3 units	0.15 lb/MMBtu	12/1/17	12/5/13	Arizona
Coal Creek	6030_B_1	BART NO _x & BART SO ₂	0.13 lb/MMBtu (combined both units)	0.15 lb/MMBtu or 95% efficiency	2018	2018	North Dakota
Coal Creek	6030_B_2	BART NO _x & BART SO ₂	0.13 lb/MMBtu (combined both units)	0.15 lb/MMBtu or 95% efficiency	2018	2018	North Dakota
Coronado	6177_B_U1B	BART NO _x & BART SO ₂	0.065 lb/MMBtu	0.08 lb/MMBtu	12/1/17	6/5/13	Arizona
Coronado	6177_B_U2B	BART NO _x & BART SO ₂	0.08 lb/MMBtu	0.08 lb/MMBtu	12/1/17	6/5/13	Arizona
Jeffrey Energy Center	6068_B_1	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.15 lb/MMBtu	2018	2018	Kansas
Jeffrey Energy Center	6068_B_2	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.15 lb/MMBtu	2018	2018	Kansas
La Cygne	1241_B_1	BART NO _x & BART SO ₂	0.13 lb/MMBtu (combined both units)	0.15 lb/MMBtu	6/1/15	6/1/15	Kansas
La Cygne	1241_B_2	BART NO _x & BART SO ₂	0.13 lb/MMBtu (combined both units)	0.15 lb/MMBtu	6/1/15	6/1/15	Kansas
Leland Olds	2817_B_1	BART NO _x & BART SO ₂	0.19 lb/MMBtu	0.15 lb/MMBtu or 95% efficiency	2018	2018	North Dakota
Leland Olds	2817_B_2	BART NO _x & BART SO ₂	0.35 lb/MMBtu	0.15 lb/MMBtu or 95% efficiency	2018	2018	North Dakota
Merrimack	2364_B_2	BART NO _x & BART SO ₂	0.30 lb/MMBtu	90 % control	2018	2018	New Hampshire
Milton R Young	2823_B_B1	BART NO _x & BART SO ₂	0.36 lb/MMBtu	0.15 lb/MMBtu or 95% efficiency	2018	2018	North Dakota
Milton R Young	2823_B_B2	BART NO _x & BART SO ₂	0.35 lb/MMBtu	0.15 lb/MMBtu or 95% efficiency	2018	2018	North Dakota
Muskogee	2952_B_4	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.06 lbs/MMBtu	2018	2018	Oklahoma
Muskogee	2952_B_5	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.06 lbs/MMBtu	2018	2018	Oklahoma

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Pawnee	6248_B_1	BART NO _x & BART SO ₂	0.07 lb/MMBtu	0.12 lb/MMBtu	2018	2018	Colorado
Ray D Nixon	8219_B_1	BART NO _x & BART SO ₂	0.21 lb/MMBtu	0.11 lb/MMBtu	2018	2018	Colorado
Sooner	6095_B_1	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.06 lbs/MMBtu	2018	2018	Oklahoma
Sooner	6095_B_2	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.06 lbs/MMBtu	2018	2018	Oklahoma
Stanton	2824_B_1	BART NO _x & BART SO ₂	0.29 lb/MMBtu	0.24 lb/MMBtu	2018	2018	North Dakota
Lansing Smith	643_B_1	BART NO _x & BART SO ₂	4700 tpy across 2 units	0.74 lb/MMBtu	2018	2018	Florida
Lansing Smith	643_B_2	BART NO _x & BART SO ₂	4700 tpy across 2 units	0.74 lb/MMBtu	2018	2018	Florida
Northeastern	2963_B_3313	BART NO _x & BART SO ₂ ; Shut down by 2027	0.23 lb/MMBtu	0.40 lb/MMBtu	2018	2018	Oklahoma
Boardman	6106_B_1SG	BART NO _x & BART SO ₂ ; Shut down by 2020	0.7 lb/MMBtu	0.3 lb/MMBtu	2018	2018	Oregon
Northeastern	2963_B_3314	BART NO _x & BART SO ₂ ; Shut down by 2024	0.15 lb/MMBtu	0.40 lb/MMBtu	2018	2018	Oklahoma
Seminole	136_B_1	BART SO ₂		0.25 lb/MMBtu	2018	2018	Florida
Seminole	136_B_2	BART SO ₂		0.25 lb/MMBtu	2018	2018	Florida
Northside Generating Station	667_B_1	BART SO ₂		3600 tpy across 3 units	2018	2018	Florida
Northside Generating Station	667_B_2	BART SO ₂		3600 tpy across 3 units	2018	2018	Florida
Northside Generating Station	667_B_3	BART SO ₂		3600 tpy across 3 units	2018	2018	Florida
Deerhaven Generating Station	663_B_B2	BART SO ₂		5500 tpy	2018	2018	Florida
Merrimack	2364_B_2	BART SO ₂		Actual Emissions [with FGD]	2018	2018	New Hampshire
Yates	728_B_Y6BR	Coal-to-Gas by 2016					Georgia
Yates	728_B_Y7BR	Coal-to-Gas by 2016					Georgia
George Neal North	1091_B_1	Coal-to-Gas by 4/16/2016					Iowa
George Neal North	1091_B_2	Coal-to-Gas by 4/16/2016					Iowa
Big Cajun 2	6055_B_2B2	BART NO _x : Convert to NG by 4/15/2015	0.15 lb/MMBtu		2014		Louisiana
J H Campbell	1710_B_1	BART SO ₂		0.29 lb/MMBtu		2017	Michigan
J H Campbell	1710_B_2	BART NO _x & BART SO ₂	0.08 lb/MMBtu	0.32 lb/MMBtu	2015	2017	Michigan
J H Campbell	1710_B_3	BART NO _x & BART SO ₂	0.08 lb/MMBtu	0.07 lb/MMBtu	2015	2018	Michigan
Tecumseh Energy Center	1252_B_9	BART NO _x	0.18 lb/MMBtu		2018		Kansas
Lawrence Energy Center	1250_B_3	BART NO _x	0.18 lb/MMBtu		2014		Kansas
Lawrence Energy Center	1250_B_4	BART NO _x & BART SO ₂	0.18 lb/MMBtu	0.15 lb/MMBtu	2014	2014	Kansas

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Lawrence Energy Center	1250_B_5	BART NO _x & BART SO ₂	0.15 lb/MMBtu	0.15 lb/MMBtu	2014	2014	Kansas
Laramie River Station	6204_B_3	BART NO _x	0.07 lb/MMBtu		2018		Wyoming
Lee	2709_B_3	Shut down by 2013					North Carolina
L V Sutton	2713_B_3	Shut down by 2017					North Carolina
Portland	3113_B_2	Shut down by 1/7/2015					Pennsylvania
Harllee Branch	709_B_2	Shut down by 10/1/13					Georgia
Canadys Steam	3280_B_CAN1	Shut down by 12/1/2017					South Carolina
Canadys Steam	3280_B_CAN2	Shut down by 12/1/2017					South Carolina
Canadys Steam	3280_B_CAN3	Shut down by 12/1/2017					South Carolina
Harllee Branch	709_B_1	Shut down by 12/31/13					Georgia
Chesapeake	3803_B_4	Shut down by 12/31/14					Virginia
Welsh	6139_B_2	Shut down by 12/31/14					Texas
Conesville	2840_B_3	Shut down by 12/31/2012					Ohio
HMP&L Station One Henderson	Not in NEEDS	Shut down by 2008					Kentucky
Menasha	4127_B_B24	Shut down by 2009					Wisconsin
Pella	1175_B_6	Shut down by 2012					Iowa
Pella	1175_B_7	Shut down by 2012					Iowa
Jefferies	3319_B_3	Shut down by 2013					South Carolina
Jefferies	3319_B_4	Shut down by 2013					South Carolina
Big Sandy	1353_B_BSU2	Shut down by 2015					Kentucky
Frank E Ratts	1043_B_1SG1	Shut down by 2015					Indiana
Frank E Ratts	1043_B_2SG1	Shut down by 2015					Indiana
Harbor Beach	1731_B_1	Shut down by 2015					Michigan
Nelson Dewey	4054_B_2	Shut down by 2015					Wisconsin
Cane Run	1363_B_4	Shut down by 2016					Kentucky
Cane Run	1363_B_5	Shut down by 2016					Kentucky
Cane Run	1363_B_6	Shut down by 2016					Kentucky
Harllee Branch	709_B_3	Shut down by 2016					Georgia
Harllee Branch	709_B_4	Shut down by 2016					Georgia
Kraft	733_B_3	Shut down by 2016					Georgia
J T Deely	6181_B_1	Shut down by 2018					Texas
J T Deely	6181_B_2	Shut down by 2018					Texas
State Line	981_B_4	Shut down by 3/25/12					Indiana
Avon Lake	2836_B_10	Shut down by 4/1/2015					Ohio
Walter C Beckjord	2830_B_5	Shut down by 4/1/2015					Ohio

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Walter C Beckjord	2830_B_6	Shut down by 4/1/2015					Ohio
New Castle	3138_B_5	Shut down by 4/16/2015					Pennsylvania
Big Sandy	1353_B_BSU1	Shut down by 6/1/2015					Kentucky
Bay Shore	2878_B_3	Shut down by 9/1/2012					Ohio
Bay Shore	2878_B_4	Shut down by 9/1/2012					Ohio
Eastlake	2837_B_5	Shut down by 9/1/2012					Ohio
Edgewater	4050_B_4	Shutdown or Coal-to-Gas by 12/31/2018					Wisconsin
Dave Johnston	4158_B_BW43	BART NO _x Shut down by 2027	0.28 lb/MMBtu		2018		Wyoming
Dave Johnston	4158_B_BW44	BART NO _x	0.15 lb/MMBtu		2018		Wyoming
Jim Bridger	8066_B_BW71	BART NO _x	0.26 lb/MMBtu 0.07 lb/MMBtu after 2022		2018		Wyoming
Jim Bridger	8066_B_BW72	BART NO _x	0.26 lb/MMBtu 0.07 lb/MMBtu after 2021		2018		Wyoming
Jim Bridger	8066_B_BW73	BART NO _x	0.07 lb/MMBtu		2018		Wyoming
Jim Bridger	8066_B_BW74	BART NO _x	0.07 lb/MMBtu		2018		Wyoming
Laramie River Station	6204_B_1	BART NO _x	0.07 lb/MMBtu		2018		Wyoming
Laramie River Station	6204_B_2	BART NO _x	0.07 lb/MMBtu		2018		Wyoming
Naughton	4162_B_1	BART NO _x	0.26 lb/MMBtu		2018		Wyoming
Naughton	4162_B_2	BART NO _x	0.26 lb/MMBtu		2018		Wyoming
Naughton	4162_B_3	BART NO _x Convert to NG by 2018	0.07 lb/MMBtu		2018		Wyoming
Wyodak	6101_B_BW91	BART NO _x	0.07 lb/MMBtu		2018		Wyoming
Navajo	4941_B_1	Shut down by 12/31/19					Arizona
Navajo	4941_B_2	BART NO _x	0.07 lb/MMBtu		2030		Arizona
Navajo	4941_B_3	BART NO _x	0.07 lb/MMBtu		2030		Arizona
Indian River Generating Station	594_B_3	Shut down by 12/31/13					Delaware
Cherokee	469_B_3	Shut down by 12/31/16					Colorado
Valmont	477_B_5	Shut down by 12/31/17					Colorado
Crystal River	628_B_1	Shut down by 2020					Florida
Crystal River	628_B_2	Shut down by 2020					Florida
Transalta Centralia Generation	3845_B_BW21	Shut down by 2020	0.21 lb/mmBtu (both units averaged together)	10000 tpy	2013	2002	Washington

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Transalta Centralia Generation	3845_B_BW22	Shut down by 2025	0.21 lb/mmBtu (both units averaged together)	10000 tpy	2013	2002	Washington
Lansing Smith	643_B_1	BART NO _x	4700 tpy across 2 units		2018		Florida
Lansing Smith	643_B_2	BART NO _x	4700 tpy across 2 units		2018		Florida
Sherburne County	6090_B_1	BART NO _x	0.15 lb/MMBTU	0.05 lb/MMBTU	2015	2016	Minnesota
Sherburne County	6090_B_2	BART NO _x	0.15 lb/MMBTU	0.05 lb/MMBTU	2015	2016	Minnesota
B L England 2	2378_B_2	BART NO _x & BART SO ₂	0.1 lb/MMBTU	0.15 lb/MMBTU	2012	2011	New Jersey
PSEG Hudson Generating Station Unit 2	2403_B_2	BART NO _x & BART SO ₂	0.1 lb/MMBTU	0.15 lb/MMBTU	2011	2011	New Jersey
Danskammer Generating Station	2480_B_4	BART NO _x & BART SO ₂	0.12 lb/MMBTU	0.09 lb/MMBTU	2014	2014	New York
Arthur Kill Generating Station	2490_B_30	BART NO _x & BART SO ₂	0.15 lb/MMBTU	0.15 lb/MMBTU	2014	2014	New York
Ravenswood	2500_B_10	BART NO _x	0.15 lb/MMBTU		2014		New York
Ravenswood	2500_B_20	BART NO _x	0.15 lb/MMBTU		2014		New York
Ravenswood	2500_B_30	BART NO _x	0.15 lb/MMBTU		2014		New York
E F Barrett	2511_B_20	BART NO _x	0.1 lb/MMBTU		2014		New York
Northport	2516_B_1	BART NO _x	0.1 lb/MMBTU		2014		New York
Northport	2516_B_2	BART NO _x	0.1 lb/MMBTU		2014		New York
Northport	2516_B_3	BART NO _x	0.1 lb/MMBTU		2014		New York
Northport	2516_B_4	BART NO _x	0.1 lb/MMBTU		2014		New York
Oswego Harbor Power	2594_B_5	BART NO _x & BART SO ₂	383 tpy	0.8 lb/MMBTU	2014	2014	New York
Oswego Harbor Power	2594_B_6	BART NO _x & BART SO ₂	665 tpy	0.8 lb/MMBTU	2014	2014	New York
Bowline Point	2625_B_1	BART NO _x	0.15 lb/MMBTU		2014		New York
Bowline Point	2625_B_2	BART NO _x	0.15 lb/MMBTU		2014		New York
Big Stone	6098_B_1	BART NO _x & BART SO ₂	0.1 lb/MMBTU	0.09 lb/MMBTU	2018	2018	South Dakota
Hunter	6165_B_1	BART NO _x	0.07 lb/MMBTU		2022		Utah
Hunter	6165_B_2	BART NO _x	0.07 lb/MMBTU		2022		Utah
Antelope Valley	6469_B_B1	BART NO _x	0.17 lb/MMBTU		2018		North Dakota
Antelope Valley	6469_B_B2	BART NO _x	0.17 lb/MMBTU		2018		North Dakota
Huntington	8069_B_1	BART NO _x	0.07 lb/MMBTU		2022		Utah
Huntington	8069_B_2	BART NO _x	0.07 lb/MMBTU		2022		Utah
Limestone	298_B_LIM1	BART SO ₂		0.08 lb/MMBTU		2019	Texas
Limestone	298_B_LIM2	BART SO ₂		0.08 lb/MMBTU		2019	Texas

BART Affected Plants	UniqueID	BART Status/ CSAPR/ Shutdown/ Coal-to-Gas	NO _x BART Limit	SO ₂ BART Limit	NO _x Compliance Date	SO ₂ Compliance Date	State
Big Brown	3497_B_1	BART SO ₂		0.04 lb/MMBTU		2021	Texas
Big Brown	3497_B_2	BART SO ₂		0.04 lb/MMBTU		2021	Texas
Sherburne County	6090_B_3	BART SO ₂		0.29 lb/MMBTU		2017	Minnesota
Martin Lake	6146_B_1	BART SO ₂		0.12 lb/MMBTU		2019	Texas
Martin Lake	6146_B_2	BART SO ₂		0.12 lb/MMBTU		2019	Texas
Martin Lake	6146_B_3	BART SO ₂		0.11 lb/MMBTU		2019	Texas
Monticello	6147_B_1	BART SO ₂		0.04 lb/MMBTU		2021	Texas
Monticello	6147_B_2	BART SO ₂		0.04 lb/MMBTU		2021	Texas
Monticello	6147_B_3	BART SO ₂		0.06 lb/MMBTU		2019	Texas
Coleto Creek	6178_B_1	BART SO ₂		0.04 lb/MMBTU		2021	Texas
San Miguel	6183_B_SM-1	BART SO ₂		0.6 lb/MMBTU		2017	Texas
Tolk	6194_B_171B	BART SO ₂		0.06 lb/MMBTU		2021	Texas
Tolk	6194_B_172B	BART SO ₂		0.06 lb/MMBTU		2021	Texas
Sandow	6648_B_4	BART SO ₂		0.2 lb/MMBTU		2019	Texas
Roseton Generating Station	8006_B_1	BART SO ₂		0.55 lb/MMBTU		2014	New York
Roseton Generating Station	8006_B_2	BART SO ₂		0.55 lb/MMBTU		2014	New York
Cholla	113_B_1	C2G by 2025					Arizona
Cholla	113_B_2	shut down by 2016					Arizona
Cholla	113_B_3	C2G by 2025					Arizona
Cholla	113_B_4	C2G by 2025					Arizona
B L England 2	2378_B_2	shut down by 2016					New Jersey
Carbon	3644_B_1	shut down by 2016					Utah
Carbon	3644_B_2	shut down by 2016					Utah

Section 4.2.7 Cost and Performance Characteristics of Existing Units

VARIABLE O&M APPROACH

EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA using IPM use a modeling construct termed Segmental VOM to capture the variability in operation and maintenance costs that are treated as a function of the unit's dispatch pattern. Generally speaking, the construct captures costs associated with major maintenance and consumables. In the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA, the VOM for combined cycles and combustion turbine units includes the costs of both major maintenance and consumables while for coal steam and oil/gas steam units includes only the cost of consumables. The VOM cost of various emission control technologies is also incorporated.

Major maintenance: Major maintenance costs are those costs that are required to maintain the unit at its delivered performance specifications and whose terms are usually dictated through its long term service agreement (LTSA). The three main areas of maintenance for gas turbines include combustion inspection, hot gas path inspection and major inspections. All of these costs are driven by the hours of operation and the number of starts that are incurred within that time period of operation. In a cycling or mid-merit type mode of operation, there are many starts, accelerating the approach of an inspection. As more starts are incurred compared to the generation produced, cost per generation increase. For base load operation there are fewer starts spread of more generation, lowering the cost per generation. While this nomenclature is for gas-turbine based systems, steam turbine based systems have a parallel construct.

Consumables: The model captures consumable costs, as purely a function of output and does not varies across the segmented time-period. In other words, the consumables cost component is held constant over both peak and off-peak segments. Consumables include chemicals, lube oils, make-up water, waste water disposal, reagents, and purchased electricity.

Data Sources for Gas-Turbine Based Prime Movers:

ICF has used its deep expertise in operation & maintenance costs for these types of prime movers to develop generic variable O&M costs as a function of technology.

As mentioned above the variable O&M for gas-turbine based systems tracks Long Term Service Agreement costs, start-up and consumables.

Data Sources for Stand-Alone Steam Turbine Based Prime Movers:

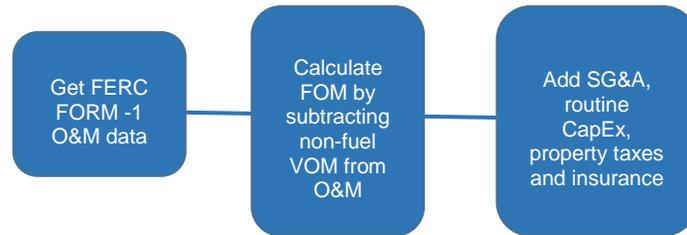
The value levels of non-fuel variable O&M data for stand-alone steam turbine plants is mostly based on 2010 NETL Report, "Cost and Performance Baseline for Fossil Energy Plants" supplemented with ICF experience where required. The VOM cost adders of various emission control technologies are based on cost functions described in Chapter 5.

FIXED O&M APPROACH

Stand Alone – Steam Turbines Based Prime Movers

IPM's O&M cost data for existing coal and oil/gas steam units were developed starting with FERC Form 1 data sets from the years 2003 to 2012. The FERC Form-1 database does not explicitly report separate fixed and variable O&M expenses. In deriving Fixed O&M costs, generic variable O&M costs are assigned to each individual power plant. Next, the assumed variable O&M cost is subtracted from the total O&M reported by FERC Form-1 to calculate a starting point for fixed O&M. Thereafter other cost items which are not reported by FERC Form-1, are added to the raw FOM starting point. These unreported cost items are SG&A (Selling, General and Administrative Expenses), property taxes, insurance and routine capex. A detailed description of the fixed O&M derivation methodology is provided below.

Exhibit-1 Derivation of Plant Fixed O&M Data



- i) Assign generic VOM cost to each unit in FERC Form 1. Subtract this VOM from the total O&M cost from FERC Form 1 to calculate raw FOM cost. Aggregate this unit level raw FOM cost data into age based categories. The weighted average raw FOM costs for uncontrolled units by age group is the output of this step and is used as the starting point for subsequent steps.
- ii) An owner/operator fee for SG&A services in the range of 20-30% is added to raw fixed O&M figures in step 1.
- iii) Property tax and insurance cost estimates in \$/kW-yr are also added. These figures vary by plant type.
- iv) A generic percentage value to cover routine capex is added to raw fixed O&M figures in step 1. The percentage varies by prime mover and is based on a review of FERC Form 1 data
- v) Finally, generic FOM cost adders for various emission control technologies are estimated using cost functions described in Chapter 5. Based on the emission control configuration of each unit in NEEDS, the appropriate emission control cost adder is added to the raw cost from step 1.

The fixed O&M derivation approach relies on top-down derivation of fixed costs based on FERC Form-1 data and ICF's own non-fuel variable O&M, SG&A, routine capex, property tax and insurance.

Gas-Turbine Based Prime Movers

Similar to the stand-alone steam turbine based prime movers, the Fixed O&M for gas-turbine based systems tracks: labor, routine maintenance, property taxes, insurance, owner/operator SG&A, and routine capital expenditures. These generic Fixed O&M costs as a function of technology are based on ICF's deep expertise in fixed operation & maintenance costs for these types of prime movers.

4.3 Planned-Committed Units

4.3.4 Online and Retirement Year

Planned-committed units included in NEEDS v.5.16 are only those units which are likely to come on-line before 2020, since 2020 is the first analysis year in the EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA. The generating units with retirement year up to 2020 are documented in NEEDS v.5.16.

Table 4-1 Data Sources for NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Data Source ¹	Data Source Documentation
DOE's Form EIA-860	DOE's Form EIA-860 is an annual survey of utility and non-utility power plants at the generator level. It contains data such as summer, winter and nameplate capacity, location (state and county), operating status, prime mover, energy sources and in-service date of existing and proposed generators. NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA uses EIA Form 860 (2010, 2011, 2012, and 2015 early release) data as one of the primary generator data inputs.
	DOE's Form EIA-860 also collects data of steam boilers such as energy sources, boiler identification, location, operating status and design information; and associated environmental equipment such as NO _x combustion and post-combustion control, FGD scrubber, mercury control and particulate collector device information. Note that boilers in plants with less than 10 MW do not report all data elements. The association between boilers and generators is also provided. Note that boilers and generators are not necessarily in a one-to-one correspondence. NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA uses EIA Form 860 (2010, 2011, 2012, and 2015 early release) data as one of the primary boiler data inputs.
NERC Electricity Supply and Demand (ES&D) database	The NERC ES&D is released annually. It contains generator-level information such as summer, winter and nameplate capacity, state, NERC region and sub-region, status, primary fuel and on-line year. NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA uses NERC ES&D (2011) data as one of the data inputs.
DOE's Annual Energy Outlook (AEO)	The Energy Information Administration (EIA) Annual Energy Outlook presents annually updated forecasts of energy supply, demand and prices covering a 20-25 year time horizon. The projections are based on results from EIA's National Energy Modeling System (NEMS). Information from AEO 2012 such as heat rates, planned committed units were used in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA. Nuclear unit capacities and uprates are from AEO 2015.
Ventyx's New Entrants database	Ventyx's New Entrants database has information on new power plant builds, rerates and retirements. NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA uses the dataset downloaded on April 13, 2012 and April 23, 2013, as one of the sources of development of committed generating units.
SNL Energy Database	SNL Energy tracks electric power development projects in North America. NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA uses the dataset downloaded on August 11, 2015, as one of the sources of developing committed generating units.
EPA's Emission Tracking System	The Emission Tracking System (ETS) database is updated quarterly. It contains boiler-level information such as primary fuel, heat input, SO ₂ and NO _x controls, and SO ₂ and NO _x emissions. NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA uses annual and seasonal ETS (2015) data as one of the primary data inputs for NO _x rate development and environmental equipment assignment.
Public Input	Comments from entities such as utilities, regional EPA offices, trade groups, and states regarding the population in NEEDS (retirements, new units) as well as unit characteristics were incorporated in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA.

¹Shown in Table 4-1 are the primary issue dates of the indicated data sources that were used. Other vintages of these data sources were also used in instances where data were not available for the indicated issued date or where there were methodological reasons for using other vintages of the data.

Table 4-2 Rules Used in Populating NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Scope	Rule
Capacity	Excluded units with reported summer capacity, winter capacity and nameplate capacity of zero or blank.
Status	Excluded units that were out of service for two or three consecutive years (i.e., generators with status codes "OS" in the latest three reporting years and boilers with status codes "OS" in the latest two reporting years) and units that were no longer in service and not expected to be returned to service (i.e., generators or boilers with status codes of "RE"). Status of boiler(s) and associated generator(s) were taken into account for determining operation status
Planned or Committed Units	Included planned units that had broken ground. Such planned units are generally expected to be online by the end of 2019.
Firm/Non-firm Electric Sales	Excluded non-utility onsite generators that do not produce electricity for sale to the grid on a net basis Excluded all mobile and distributed generators

Table 4-3 Summary Population (through 2015) of Existing Units in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Plant Type	Number of Units	Capacity (MW)
Biomass	200	4,425
Coal Steam	794	263,113
Combined Cycle	1,767	233,317
Combustion Turbine	5,198	142,479
Fossil Waste	56	381
Fuel Cell	66	123
Geothermal	170	2,634
Hydro	3812	78,816
IGCC	11	1,562
Import	1	200
Landfill Gas	1,485	2,157
Municipal Solid Waste	174	2,341
Non-Fossil Waste	165	1,855
Nuclear	95	95,152
O/G steam	363	71,772
Pumped Storage	153	22,352
Solar PV	1051	16,021
Solar Thermal	30	2,303
Tires	3	142
Wind	1060	84,143
US Total	16,654	1,025,287

Table 4-4 Hierarchy of Data Sources for Capacity in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Sources Presented in Hierarchy
Summer Net Dependable Capacity from Comments 2010 EIA 860 Summer Capacity 2011 EIA 860 Summer Capacity 2012 EIA 860 Summer Capacity 2010 EIA 860 Winter Capacity 2011 EIA 860 Winter Capacity 2012 EIA 860 Winter Capacity 2010 EIA 860 Nameplate Capacity 2011 EIA 860 Nameplate Capacity 2012 EIA 860 Nameplate Capacity

Notes:

Presented in hierarchical order that applies.

Table 4-6 Data Sources for Unit Configuration in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Unit Component	Primary Data Source	Secondary Data Source	Tertiary Data Source	Other Sources	Default
Firing Type	2010 EIA 860	EPA's Emission Tracking System (ETS) – 2011	--	--	--
Bottom Type	2010 EIA 860	EPA's Emission Tracking System (ETS) – 2011	--	--	Dry
SO ₂ Pollution Control	NSR Settlement or Comments	EPA's Emission Tracking System (ETS) - 2011	2010 EIA 860	See Note	No Control
NO _x Pollution Control	NSR Settlement or Comments	EPA's Emission Tracking System (ETS) - 2011	2010 EIA 860	See Note	No Control
Mercury Control	NSR Settlement or Comments	2010 EIA 860	--	--	No Control
Particulate Matter Control	NSR Settlement or Comments	EPA's Emission Tracking System (ETS) - 2011	2010 EIA 860	--	No Control
HCl Control	NSR Settlement or Comments	--	--	See Note	No Control

Note:

In addition to the primary, secondary and tertiary data sources listed here, the following sources were consulted and emission controls were updated when corroborating information could be found: Reports filed with the Securities and Exchange Commission; websites of generating unit owners and operators; GenerationHub; state public utility service commissions; state permitting agencies; architecture and engineering firm announcements (eg.: Shaw, URS, Stanley, Black & Veatch, Peter Kewit, etc.); equipment supplier announcements (Alstom, B&W, Babcock Power); Power-Eng.com; McILVAINE Utility Upgrade Database; ICAC (Institute of Clean Air Companies). Furthermore, comments received on prior versions of NEEDS on firing type, bottom type and emission controls are reviewed and incorporated in NEEDS v.5.14.

Table 4-7 Aggregation Profile of Model Plants as Provided at Set Up of EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Existing and Planned/Committed Units		
Plant Type	Number of Units	Number of IPM Model Plants
Biomass	203	133
Coal Steam	937	732
Combined Cycle	1829	823
Combustion Turbine	5551	2258
Fossil Other	61	19
Fuel Cell	71	29
Geothermal	184	30
Hydro	3814	186
Import	1	1
Integrated Gas Combined Cycle	12	5
Landfill Gas	1537	280
Non Fossil Other	350	166
Nuclear	104	104
Oil/Gas Steam	494	330
Pumped Storage	153	24
Solar PV	1059	98
Solar Thermal	32	11
Wind	1072	120
Total	17,464	5,349
New Units		
Plant Type	Number of Units	Number of IPM Model Plants
New Advanced Coal with CCS	--	176
New Biomass	--	123
New Combined Cycle	--	200
New Combined Cycle with Carbon Capture	--	200
New Combustion Turbine	--	200
New Energy Efficiency	--	896
New Fuel Cell	--	122
New Future Technology	--	305
New Geothermal	--	64
New IGCC	--	186
New Landfill Gas	--	369
New Nuclear	--	400
New Offshore Wind	--	714
New Onshore Wind	--	1480
New Solar PV	--	228
New Solar Thermal	--	91
New SPC-WetFGD_SCR	--	176
Total	--	5,930

Retrofits		
Plant Type	Number of Units	Number of IPM Model Plants
Retrofit Coal with ACI	--	334
Retrofit Coal with ACI + CCS	--	142
Retrofit Coal with ACI + CCS + HRI	--	142
Retrofit Coal with ACI + CCS + HRI + SCR	--	62
Retrofit Coal with ACI + CCS + HRI + SCR + Scrubber	--	96
Retrofit Coal with ACI + CCS + HRI + Scrubber	--	118
Retrofit Coal with ACI + CCS + HRI + SNCR	--	1
Retrofit Coal with ACI + CCS + SCR	--	62
Retrofit Coal with ACI + CCS + SCR + Scrubber	--	96
Retrofit Coal with ACI + CCS + Scrubber	--	118
Retrofit Coal with ACI + CCS + SNCR	--	10
Retrofit Coal with ACI + DSI	--	293
Retrofit Coal with ACI + DSI + HRI	--	293
Retrofit Coal with ACI + DSI + HRI + SCR	--	393
Retrofit Coal with ACI + DSI + HRI + SCR + Scrubber	--	255
Retrofit Coal with ACI + DSI + HRI + Scrubber	--	279
Retrofit Coal with ACI + DSI + HRI + SNCR	--	129
Retrofit Coal with ACI + DSI + HRI + SNCR + Scrubber	--	60
Retrofit Coal with ACI + DSI + SCR	--	393
Retrofit Coal with ACI + DSI + SCR + Scrubber	--	255
Retrofit Coal with ACI + DSI + Scrubber	--	279
Retrofit Coal with ACI + DSI + Scrubber + SNCR	--	60
Retrofit Coal with ACI + DSI + SNCR	--	148
Retrofit Coal with ACI + HRI	--	333
Retrofit Coal with ACI + HRI + SCR	--	436
Retrofit Coal with ACI + HRI + SCR + Scrubber	--	706
Retrofit Coal with ACI + HRI + Scrubber	--	583
Retrofit Coal with ACI + HRI + SNCR	--	130
Retrofit Coal with ACI + HRI + SNCR + Scrubber	--	270
Retrofit Coal with ACI + SCR	--	437
Retrofit Coal with ACI + SCR + Scrubber	--	706
Retrofit Coal with ACI + Scrubber	--	583
Retrofit Coal with ACI + Scrubber + SNCR	--	270
Retrofit Coal with ACI + SNCR	--	141
Retrofit Coal with C2G	--	599
Retrofit Coal with C2G + SCR	--	599
Retrofit Coal with CCS	--	420
Retrofit Coal with CCS + HRI	--	420
Retrofit Coal with CCS + HRI + SCR	--	132
Retrofit Coal with CCS + HRI + SCR + Scrubber	--	154
Retrofit Coal with CCS + HRI + Scrubber	--	190
Retrofit Coal with CCS + SCR	--	132

Retrofits		
Plant Type	Number of Units	Number of IPM Model Plants
Retrofit Coal with CCS + SCR + Scrubber	--	154
Retrofit Coal with CCS + Scrubber	--	190
Retrofit Coal with DSI	--	192
Retrofit Coal with DSI + HRI	--	383
Retrofit Coal with DSI + HRI + SCR	--	513
Retrofit Coal with DSI + HRI + SCR + Scrubber	--	275
Retrofit Coal with DSI + HRI + Scrubber	--	244
Retrofit Coal with DSI + HRI + SNCR	--	110
Retrofit Coal with DSI + SCR	--	513
Retrofit Coal with DSI + SCR + Scrubber	--	275
Retrofit Coal with DSI + Scrubber	--	244
Retrofit Coal with DSI + SNCR	--	163
Retrofit Coal with HRI	--	663
Retrofit Coal with HRI + SCR	--	739
Retrofit Coal with HRI + SCR + Scrubber	--	1,188
Retrofit Coal with HRI + Scrubber	--	937
Retrofit Coal with HRI + Scrubber + SNCR	--	390
Retrofit Coal with HRI + SNCR	--	183
Retrofit Coal with SCR	--	370
Retrofit Coal with SCR + Scrubber	--	1,188
Retrofit Coal with Scrubber	--	469
Retrofit Coal with Scrubber + SNCR	--	391
Retrofit Coal with SNCR	--	92
Retrofit Combined Cycle with CCS	--	692
Retrofit Oil/Gas steam with SCR	--	205
Total	--	22,022

Withdrawn as Uneconomic (Early Retirements)		
Plant Type	Number of Units	Number of IPM Model Plants
CC Withdrawn as Uneconomic	--	823
Coal Withdrawn as Uneconomic	--	4,756
CT Withdrawn as Uneconomic	--	2,258
IGCC Withdrawn as Uneconomic	--	5
Non-Fossil Withdrawn as Uneconomic	--	823
Nuke Withdrawn as Uneconomic	--	104
O/G Withdrawn as Uneconomic	--	1,134
Total	--	9,903

Grand Total (Existing and Planned/Committed + New + Retrofits + Early Retirements): 43204

Notes:

¹Non Fossil Other includes units whose fuel is municipal solid waste, tires, and other non-fossil waste.

Table 4-11 Summary of Planned-Committed Units in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Type	Capacity (MW)	Year Range Described
Renewables/Non-conventional		
Geothermal	8	2016 - 2016
Hydro	503	2016 - 2016
Solar PV	260	2018 - 2018
Solar Thermal	150	2016 - 2016
Wind	400	2020 - 2020
Subtotal	1,321	
Fossil/Conventional		
Combined Cycle	4,551	2016 - 2017
Nuclear	4,400	2019 - 2020
Subtotal	8,951	
Grand Total	10,272	

Table 4-12 Planned-Committed Units by Model Region in NEEDS for EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

IPM Region	Plant Type	Capacity (MW)
MIS_IA	Combined Cycle	646
MIS_MIDA	Hydro	55
PJM_Dom	Combined Cycle	2158
PJM_PENE	Combined Cycle	383
PJM_WMAC	Combined Cycle	765
S_SOU	Nuclear	2200
S_VACA	Nuclear	2200
SPP_N	Combined Cycle	100
	Wind	400
WEC_LADW	Solar PV	172
WECC_PNW	Combined Cycle	500
	Hydro	448
WECC_SCE	Solar PV	88
	Solar Thermal	150
WECC_UT	Geothermal	8

**Table 4-13 Performance and Unit Cost Assumptions for Potential (New) Capacity from Conventional Technologies
in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA**

	Advanced Combined Cycle	Advanced Combustion Turbine	Nuclear	Integrated Gasification Combined Cycle	Integrated Gasification Combined Cycle with Carbon Sequestration	Supercritical Pulverized Coal
Size (MW)	400	210	2236	600	520	1300
First Run Year Available	2020	2016	2020	2018	2020	2018
Lead Time (Years)	3	2	6	4	4	4
Availability	87%	92%	90%	85%	85%	85%
Vintage #1 (2016-2054)						
Heat Rate (Btu/kWh)	6,430	9,750	10,452	8,700	10,700	8,800
Capital (2011\$/kW)	1,006	664	5,429	2,969	4,086	2,883
Fixed O&M (2011\$/kW/yr)	15.1	6.9	91.7	62.3	70.6	30.6
Variable O&M (2011\$/MWh)	3.2	10.2	2.1	7.2	8.2	4.4

Notes:

^a Capital cost represents overnight capital cost

Table 4-14 Short-Term Capital Cost Adders for New Power Plants in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA (2011\$)

ID Number	Plant Type		2020			2023			2025			2028			2030			2035		
			Step 1	Step 2	Step 3	Step 1	Step 2	Step 3	Step 1	Step 2	Step 3	Step 1	Step 2	Step 3	Step 1	Step 2	Step 3	Step 1	Step 2	Step 3
1	Biomass	Upper Bound (MW)	3,151	2,329	3,000,000	1,891	1,397	3,000,000	1,260	932	3,000,000	1,891	1,397	3,000,000	1,260	932	3,000,000	3,151	2,329	3,000,000
		Adder (\$/kW)	-	1,883	5,980	-	1,883	5,980	-	1,883	5,980	-	1,883	5,980	-	1,883	5,980	-	1,883	5,980
2	Coal Steam	Upper Bound (MW)	33,126	24,484	3,000,000	19,875	14,691	3,000,000	13,250	9,794	3,000,000	19,875	14,691	3,000,000	13,250	9,794	3,000,000	33,126	24,484	3,000,000
		Adder (\$/kW)	-	1,343	4,266	-	1,343	4,266	-	1,343	4,266	-	1,343	4,266	-	1,343	4,266	-	1,343	4,266
3	Combined Cycle	Upper Bound (MW)	221,168	163,472	3,000,000	132,701	98,083	3,000,000	88,467	65,389	3,000,000	132,701	98,083	3,000,000	88,467	65,389	3,000,000	221,168	163,472	3,000,000
		Adder (\$/kW)	-	459	1,457	-	459	1,457	-	459	1,457	-	459	1,457	-	459	1,457	-	459	1,457
4	Combustion Turbine	Upper Bound (MW)	113,407	83,823	3,000,000	68,044	50,294	3,000,000	45,363	33,529	3,000,000	68,044	50,294	3,000,000	45,363	33,529	3,000,000	113,407	83,823	3,000,000
		Adder (\$/kW)	-	293	932	-	293	932	-	293	932	-	293	932	-	293	932	-	293	932
5	Fuel Cell	Upper Bound (MW)	2,875	2,125	3,000,000	1,725	1,275	3,000,000	1,150	850	3,000,000	1,725	1,275	3,000,000	1,150	850	3,000,000	2,875	2,125	3,000,000
		Adder (\$/kW)	-	3,245	10,309	-	3,245	10,309	-	3,245	10,309	-	3,245	10,309	-	3,245	10,309	-	3,245	10,309
6	Geothermal	Upper Bound (MW)	1,507	1,114	3,000,000	904	668	3,000,000	603	445	3,000,000	904	668	3,000,000	603	445	3,000,000	1,507	1,114	3,000,000
		Adder (\$/kW)	-	3,126	9,931	-	3,097	9,838	-	3,097	9,838	-	3,060	9,720	-	3,060	9,720	-	3,002	9,537
7	IGCC and Advanced Coal with Carbon Capture	Upper Bound (MW)	11,500	8,500	3,000,000	6,900	5,100	3,000,000	4,600	3,400	3,000,000	6,900	5,100	3,000,000	4,600	3,400	3,000,000	11,500	8,500	3,000,000
		Adder (\$/kW)	-	1,383	4,393	-	1,383	4,393	-	1,383	4,393	-	1,383	4,393	-	1,383	4,393	-	1,383	4,393
8	Landfill Gas	Upper Bound (MW)	2,875	2,125	3,000,000	1,725	1,275	3,000,000	1,150	850	3,000,000	1,725	1,275	3,000,000	1,150	850	3,000,000	2,875	2,125	3,000,000
		Adder (\$/kW)	-	3,959	12,576	-	3,932	12,490	-	3,932	12,490	-	3,898	12,382	-	3,898	12,382	-	3,845	12,214
9	Nuclear	Upper Bound (MW)	53,878	39,823	3,000,000	32,327	23,894	3,000,000	21,551	15,929	3,000,000	32,327	23,894	3,000,000	21,551	15,929	3,000,000	53,878	39,823	3,000,000
		Adder (\$/kW)	-	2,621	8,326	-	2,621	8,326	-	2,621	8,326	-	2,621	8,326	-	2,621	8,326	-	2,621	8,326
10	Solar Thermal	Upper Bound (MW)	4,021	3,486	3,000,000	2,830	2,092	3,000,000	1,886	1,394	3,000,000	2,830	2,092	3,000,000	1,886	1,394	3,000,000	4,716	3,486	3,000,000
		Adder (\$/kW)	-	1,521	4,830	-	1,560	4,954	-	1,865	5,925	-	1,802	5,725	-	1,771	5,626	-	1,670	5,305
11	Solar PV	Upper Bound (MW)	38,057	31,408	3,000,000	25,496	18,845	3,000,000	16,997	12,563	3,000,000	25,496	18,845	3,000,000	16,997	12,563	3,000,000	42,493	31,408	3,000,000
		Adder (\$/kW)	-	497	1,580	-	602	1,912	-	581	1,845	-	541	1,720	-	521	1,654	-	458	1,454
12	Onshore Wind	Upper Bound (MW)	63,598	55,854	3,000,000	45,340	33,512	3,000,000	30,227	22,341	3,000,000	45,340	33,512	3,000,000	30,227	22,341	3,000,000	75,567	55,854	3,000,000
		Adder (\$/kW)	-	485	1,539	-	735	2,334	-	729	2,315	-	720	2,288	-	718	2,282	-	709	2,253
13	Offshore Wind	Upper Bound (MW)	2,875	2,125	3,000,000	1,725	1,275	3,000,000	1,150	850	3,000,000	1,725	1,275	3,000,000	1,150	850	3,000,000	2,875	2,125	3,000,000
		Adder (\$/kW)	-	1,899	6,033	-	1,848	5,869	-	1,828	5,808	-	1,788	5,680	-	1,769	5,619	-	1,730	5,495
14	Hydro	Upper Bound (MW)	6,952	5,138	3,000,000	4,171	3,083	3,000,000	2,781	2,055	3,000,000	4,171	3,083	3,000,000	2,781	2,055	3,000,000	6,952	5,138	3,000,000
		Adder (\$/kW)	-	738	2,345	-	738	2,345	-	738	2,345	-	738	2,345	-	738	2,345	-	738	2,345

Table 4-16 Performance and Unit Cost Assumptions for Potential (New) Renewable and Non-Conventional Technology Capacity in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

	Biomass-Bubbling Fluidized Bed (BFB)	Geothermal	Landfill Gas - LGHI, LGLo, LGLo			Hydro	Fuel Cells	Solar Photovoltaic	Solar Thermal	Onshore Wind	Offshore Wind
Size (MW)	50	50	50				10	150	100	100	400
First Year Available	2018	2018	2016			2020	2016	2018	2018	2018	2018
Lead Time (Years)	3	4	3			4	3	2	3	3	4
Availability	83%	87%	90%			90%	87%	90%	90%	95%	95%
Generation Capability	Economic Dispatch	Economic Dispatch	Economic Dispatch			Economic Dispatch	Economic Dispatch	Generation Profile	Generation Profile	Generation Profile	Generation Profile
Vintage #1 (2016-2054)						Vintage #1 (2016)					
Heat Rate (Btu/kWh)	13,500	30,000	13,648	13,648	13,648	1,170 - 6,541	9,246	9,756	9,756	9,756	9,756
Capital (2011\$/kW)	4,041	1,187 - 15,752	8,408	10,594	16,312		7,117	2,145	4,929	1,695	5,153
Fixed O&M (2011\$/kW/yr)	103.79	50 - 541	381.74	381.74	381.74	14.6	357.47	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)	5.17	0	8.51	8.51	8.51	2.6	0	0	0	0	0
Vintage #2 (2018)						Vintage #2 (2018)					
Heat Rate (Btu/kWh)							8,738	9,756	9,756	9,756	9,756
Capital (2011\$/kW)							6995	1,848	4,851	1,688	4885
Fixed O&M (2011\$/kW/yr)							357.5	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)							0	0	0	0	0
Vintage #3 (2020)						Vintage #3 (2020)					
Heat Rate (Btu/kWh)							8,230	9,756	9,756	9,756	9,756
Capital (2011\$/kW)							6806	1,552	4,774	1,682	4617
Fixed O&M (2011\$/kW/yr)							357.5	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)							0	0	0	0	0
Vintage #4 (2025)						Vintage #4 (2025)					
Heat Rate (Btu/kWh)							6,960	9,756	9,756	9,756	9,756
Capital (2011\$/kW)							6276	1,423	4,580	1,672	4070
Fixed O&M (2011\$/kW/yr)							357.5	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)							0	0	0	0	0
Vintage #5 (2030)						Vintage #5 (2030)					
Heat Rate (Btu/kWh)							6,960	9,756	9,756	9,756	9,756
Capital (2011\$/kW)							5,799	1,294	4,387	1,668	3963
Fixed O&M (2011\$/kW/yr)							357.5	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)							0	0	0	0	0
Vintage #6 (2040)						Vintage #6 (2040)					
Heat Rate (Btu/kWh)							6,960	9,756	9,756	9,756	9,756
Capital (2011\$/kW)							4,872	1,035	3,999	1,667	3,862
Fixed O&M (2011\$/kW/yr)							357.5	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)							0	0	0	0	0
Vintage #7 (2050)						Vintage #7 (2050)					
Heat Rate (Btu/kWh)							6,960	9,756	9,756	9,756	9,756
Capital (2011\$/kW)							4872	1,035	3,612	1,667	3747
Fixed O&M (2011\$/kW/yr)							357.5	7.37	42.2	46.5	101.4
Variable O&M (2011\$/MWh)							0	0	0	0	0

Notes:

¹ Assumptions for Biomass Cofiring for Coal Plants can be found in Table 5-13

Table 4-20 Representative Wind Generation Profiles in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Illustrative Hourly Wind Generation Profile (kWh of Generation per MW of Electricity)

Winter Hour	Wind Class					Summer Hour	Wind Class				
	1	2	3	4	5		1	2	3	4	5
01	496	577	628	639	678	01	331	389	480	500	541
02	490	570	622	634	674	02	318	374	465	487	530
03	484	566	619	631	670	03	306	362	452	473	518
04	470	551	606	619	661	04	284	340	427	449	495
05	443	524	580	596	642	05	252	307	389	411	458
06	426	505	560	579	628	06	227	279	357	378	426
07	422	500	553	573	623	07	207	254	328	349	396
08	430	509	558	578	628	08	201	245	317	338	384
09	420	501	548	569	619	09	193	236	303	326	370
10	401	485	532	555	607	10	196	243	304	328	374
11	387	470	518	544	597	11	211	262	317	343	392
12	384	466	514	542	596	12	231	284	333	359	410
13	384	463	510	540	595	13	244	296	341	366	417
14	387	464	511	541	596	14	254	304	344	368	420
15	390	464	512	542	597	15	262	311	348	372	422
16	386	458	504	535	591	16	264	312	348	372	422
17	373	444	487	519	577	17	260	306	343	367	415
18	374	446	485	518	576	18	267	312	349	373	419
19	403	476	514	545	600	19	292	338	381	405	448
20	447	522	561	587	636	20	325	374	427	450	491
21	479	557	598	617	660	21	344	397	462	484	523
22	497	576	619	634	673	22	350	406	482	501	541
23	502	582	629	641	679	23	347	405	488	507	547
24	500	580	629	641	679	24	340	399	487	506	547
Winter Average	432	511	558	580	628	Summer Average	271	322	386	409	454

Notes:

Based on Onshore Wind in Model Region WECC_CO.

This is an example of the wind data used in EPA Base Case v.5.15

Table 4-21 Onshore Reserve Margin Contribution and Average Capacity Factor by Wind Class

	Wind Class				
	1	2	3	4	5
Capacity Factor	36%	43%	49%	51%	56%
Reserve Margin Contribution¹	24%	29%	32%	34%	37%

Note:

¹Reserve Margin Contribution for ERC_REST and ERC_WEST is 8.7%.

Table 4-22 Offshore Shallow Reserve Margin Contribution and Average Capacity Factor by Wind Class

	Wind Class				
	1	2	3	4	5
Capacity Factor	31%	40%	43%	47%	52%
Reserve Margin Contribution¹	20%	26%	29%	31%	34%

Note:

¹Reserve Margin Contribution for ERC_REST and ERC_WEST is 8.7%.

Table 4-23 Offshore Deep Reserve Margin Contribution and Average Capacity Factor by Wind Class

	Wind Class				
	1	2	3	4	5
Capacity Factor	36%	45%	49%	51%	54%
Reserve Margin Contribution¹	24%	30%	32%	34%	35%

Note:

¹Reserve Margin Contribution for ERC_REST and ERC_WEST is 8.7%.

Table 4-28 Representative Solar Generation Profiles in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Illustrative Hourly Solar Generation Profile (kWh of Generation per MW of Electricity)

Winter Hour	Solar Thermal	Solar Photovoltaic	Summer Hour	Solar Thermal	Solar Photovoltaic
01	0	0	01	0	3
02	0	0	02	0	3
03	0	0	03	0	3
04	0	0	04	0	3
05	0	0	05	0	3
06	0	446	06	3	574
07	48	446	07	479	574
08	329	446	08	921	574
09	593	446	09	988	574
10	640	446	10	1,003	574
11	585	446	11	968	574
12	559	446	12	945	574
13	568	552	13	899	600
14	621	552	14	885	600
15	674	552	15	861	600
16	520	552	16	828	600
17	168	64	17	657	155
18	1	64	18	187	155
19	0	64	19	0	155
20	0	64	20	0	155
21	0	64	21	0	155
22	0	0	22	0	3
23	0	0	23	0	3
24	0	0	24	0	3
Winter Average	221	236	Summer Average	401	301

Table 4-29 Solar Reserve Margin Contribution and Average Capacity Factor

State	Solar Photovoltaic	
	Average Capacity Factor	Reserve Margin Contribution
Alabama	20%	23%
Alaska	11%	12%
Arizona	26%	30%
Arkansas	21%	24%
California	25%	29%
Colorado	26%	30%
Connecticut	18%	21%
Delaware	19%	21%
Florida	21%	24%
Georgia	20%	23%
Hawaii	21%	24%
Idaho	22%	25%
Illinois	19%	21%
Indiana	18%	21%
Iowa	20%	23%
Kansas	24%	27%
Kentucky	19%	21%
Louisiana	20%	22%
Maine	19%	22%
Maryland	18%	20%
Massachusetts	18%	21%
Michigan	17%	20%
Minnesota	19%	22%
Mississippi	20%	22%
Missouri	19%	22%
Montana	21%	24%
Nebraska	22%	25%
Nevada	26%	30%
New Hampshire	18%	21%
New Jersey	20%	23%
New Mexico	26%	30%
New York	18%	21%
North Carolina	21%	23%
North Dakota	20%	23%
Ohio	17%	20%
Oklahoma	22%	25%
Oregon	23%	26%
Pennsylvania	18%	20%
Rhode Island	18%	20%
South Carolina	20%	23%
South Dakota	21%	24%
Tennessee	20%	23%
Texas	22%	25%
Utah	25%	28%
Vermont	18%	20%
Virginia	20%	23%
Washington	20%	23%
West Virginia	17%	20%
Wisconsin	18%	21%
Wyoming	23%	26%

Table 4-33 Nuclear Upgrading (MW) as Incorporated in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA from AEO 2015

Name	Plant ID	Unit ID	Year	Change in MWs
Fort Calhoun	2289	1	2017	75

Table 4-34 Characteristics of Existing Nuclear Units

Region	State	Plant Name	ORIS Code_Unit Id	On-Line Year	Capacity (MW)	Heat Rate (Btu/kWh)	FOM (2011\$ /kW-yr)	VOM (2011 mills/kWh)
ERC_REST	Texas	Comanche Peak	6145_1	1990	1205	10460	145.20	0.07
		Comanche Peak	6145_2	1993	1195	10460	138.70	0.07
		South Texas Project	6251_1	1988	1280	10460	154.80	0.07
		South Texas Project	6251_2	1989	1280	10460	148.60	0.06
FRCC	Florida	St Lucie	6045_1	1976	981	10460	161.10	0.08
		St Lucie	6045_2	1983	981	10460	158.30	0.07
		Turkey Point	621_3	1972	802	10460	168.60	0.08
		Turkey Point	621_4	1973	802	10460	162.50	0.07
MIS_IA	Iowa	Duane Arnold Energy Center	1060_1	1975	601	10460	148.80	0.07
MIS_LMI	Michigan	Fermi	1729_2	1988	1085	10460	154.70	0.07
		Palisades	1715_1	1972	782	10460	192.80	0.09
MIS_MNWI	Minnesota	Monticello	1922_1	1971	633	10270	170.90	0.10
		Prairie Island	1925_1	1974	521	11440	158.00	0.09
		Prairie Island	1925_2	1974	519	11440	160.40	0.08
MIS_MO	Missouri	Callaway	6153_1	1984	1190	10460	144.80	0.07
MIS_WUMS	Wisconsin	Point Beach Nuclear Plant	4046_1	1970	591	10460	192.00	0.09
		Point Beach Nuclear Plant	4046_2	1972	591	10460	190.40	0.09
NENG_CT	Connecticut	Millstone	566_2	1975	869	10460	174.70	0.08
		Millstone	566_3	1986	1233	10460	153.00	0.08
NENGRST	Massachusetts	Pilgrim Nuclear Power Station	1590_1	1972	677	10460	213.70	0.08
	New Hampshire	Seabrook	6115_1	1990	1246	10460	175.60	0.08
NY_Z_A&B	New York	R E Ginna Nuclear Power Plant	6122_1	1970	490	10460	229.80	0.10
NY_Z_C&E	New York	James A Fitzpatrick	6110_1	1976	716	10460	219.00	0.09

Region	State	Plant Name	ORIS Code_Unit Id	On-Line Year	Capacity (MW)	Heat Rate (Btu/kWh)	FOM (2011\$ /kW-yr)	VOM (2011 mills/kWh)
		Nine Mile Point Nuclear Station	2589_1	1969	531	10460	202.90	0.09
		Nine Mile Point Nuclear Station	2589_2	1987	965	10460	190.20	0.09
NY_Z_G-I	New York	Indian Point 2	2497_2	1973	1020	10460	190.50	0.08
		Indian Point 3	8907_3	1976	1041	10460	174.10	0.08
PJM_ATSI	Ohio	Davis Besse	6149_1	1977	894	10460	163.80	0.09
		Perry	6020_1	1987	1272	10460	192.20	0.10
PJM_COMD	Illinois	Braidwood Generation Station	6022_1	1988	1178	10460	171.90	0.08
		Braidwood Generation Station	6022_2	1988	1152	10460	168.20	0.07
		Byron Generating Station	6023_1	1985	1164	10460	168.90	0.07
		Byron Generating Station	6023_2	1987	1136	10460	166.00	0.07
		Dresden Generating Station	869_2	1970	883	10460	199.50	0.08
		Dresden Generating Station	869_3	1971	867	10460	198.30	0.08
		LaSalle Generating Station	6026_1	1984	1137	10427	173.50	0.08
LaSalle Generating Station	6026_2	1984	1140	10427	168.50	0.07		
PJM_Dom	Virginia	North Anna	6168_1	1978	943	10460	174.60	0.09
		North Anna	6168_2	1980	943	10460	173.00	0.09
		Surry	3806_1	1972	872	10427	158.50	0.07
		Surry	3806_2	1973	872	10427	157.30	0.07
PJM_EMAC	New Jersey	PSEG Hope Creek Generating Station	6118_1	1986	1174	10460	148.20	0.07
		PSEG Salem Generating Station	2410_1	1977	1168	10460	171.60	0.08
		PSEG Salem Generating Station	2410_2	1981	1158	10460	169.10	0.08
	Pennsylvania	Limerick	6105_1	1986	1146	10460	167.70	0.07
		Limerick	6105_2	1990	1150	10460	164.40	0.07
		Peach Bottom	3166_2	1974	1125	10460	179.90	0.08
Peach Bottom	3166_3	1974	1125	10460	176.10	0.08		
PJM_SMAC	Maryland	Calvert Cliffs Nuclear Power Plant	6011_1	1975	866	10460	174.00	0.07
		Calvert Cliffs Nuclear Power Plant	6011_2	1977	850	10460	169.80	0.07
PJM_West	Michigan	Donald C Cook	6000_1	1975	1009	10460	155.90	0.09
		Donald C Cook	6000_2	1978	1060	10460	168.50	0.08
	Pennsylvania	Beaver Valley	6040_1	1976	921	10460	201.40	0.09

Region	State	Plant Name	ORIS Code_Unit Id	On-Line Year	Capacity (MW)	Heat Rate (Btu/kWh)	FOM (2011\$/kW-yr)	VOM (2011 mills/kWh)
		Beaver Valley	6040_2	1987	914	10460	193.40	0.09
PJM_WMAC	Pennsylvania	PPL Susquehanna	6103_1	1983	1260	10460	155.20	0.08
		PPL Susquehanna	6103_2	1985	1260	10460	151.20	0.08
		Three Mile Island	8011_1	1974	805	10460	190.80	0.09
S_C_TVA	Alabama	Browns Ferry	46_1	1974	1101	10460	166.50	0.07
		Browns Ferry	46_2	1975	1104	10460	168.50	0.08
		Browns Ferry	46_3	1977	1105	10460	170.80	0.08
	Tennessee	Sequoyah	6152_1	1981	1152	10460	189.10	0.08
		Sequoyah	6152_2	1982	1126	10460	188.60	0.08
		Watts Bar Nuclear Plant	7722_1	1996	1123	10460	175.40	0.08
Watts Bar Nuclear Plant	7722_2	2015	1122	10460	136.99	2.16		
S_D_AMSO	Louisiana	Waterford 3	4270_3	1985	1159	10460	183.90	0.07
S_D_N_AR	Arkansas	Arkansas Nuclear One	8055_1	1974	836	10460	187.50	0.08
		Arkansas Nuclear One	8055_2	1980	992	10460	181.40	0.07
S_D_REST	Louisiana	River Bend	6462_1	1986	975	10460	145.60	0.07
	Mississippi	Grand Gulf	6072_1	1985	1419	10460	154.50	0.06
S_SOU	Alabama	Joseph M Farley	6001_1	1977	874	10460	171.30	0.08
		Joseph M Farley	6001_2	1981	860	10460	166.30	0.08
	Georgia	Edwin I Hatch	6051_1	1975	876	10460	186.60	0.09
		Edwin I Hatch	6051_2	1979	883	10460	190.20	0.10
		Vogtle	649_1	1987	1150	10460	194.70	0.09
		Vogtle	649_2	1989	1152	10460	188.80	0.08
Vogtle	649_3	2019	1100	10400	112.87	2.16		
Vogtle	649_4	2020	1100	10400	112.87	2.16		
S_VACA	North Carolina	Brunswick	6014_1	1977	938	10460	194.40	0.09
		Brunswick	6014_2	1975	932	10460	177.20	0.09
		Harris	6015_1	1987	928	10460	190.00	0.08
		McGuire	6038_1	1981	1158	10460	180.30	0.08
		McGuire	6038_2	1984	1158	10460	177.40	0.07
	South Carolina	Catawba	6036_1	1985	1129	10460	183.80	0.09

Region	State	Plant Name	ORIS Code_Unit Id	On-Line Year	Capacity (MW)	Heat Rate (Btu/kWh)	FOM (2011\$ /kW-yr)	VOM (2011 mills/kWh)
		Catawba	6036_2	1986	1129	10460	182.30	0.09
		H B Robinson	3251_2	1971	741	10460	147.70	0.08
		Oconee	3265_1	1973	846	10460	169.30	0.08
		Oconee	3265_2	1974	846	10460	170.60	0.08
		Oconee	3265_3	1974	846	10460	173.50	0.08
		V C Summer	6127_1	1984	971	10460	162.80	0.08
		V C Summer	6127_2	2019	1100	10400	112.87	2.17
		V C Summer	6127_3	2020	1100	10400	112.87	2.17
SPP_N	Kansas	Wolf Creek Generating Station	210_1	1985	1175	10460	135.60	0.07
SPP_NEBR	Nebraska	Cooper	8036_1	1974	766	10460	185.30	0.09
WEC_CALN	California	Diablo Canyon	6099_1	1985	1122	10460	159.90	0.08
		Diablo Canyon	6099_2	1986	1118	10460	162.00	0.09
WECC_AZ	Arizona	Palo Verde	6008_1	1986	1311	10460	157.20	0.07
		Palo Verde	6008_2	1986	1314	10460	145.80	0.06
		Palo Verde	6008_3	1988	1312	10460	152.40	0.06
WECC_PNW	Washington	Columbia Generating Station	371_2	1984	1132	10460	176.00	0.09

Table 4-35 Capacity Not Included Based on EIA form 860 – Existing Units

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Hospira Inc	55788	GEN1	Combustion Turbine	New York	1.1	Dropped - Onsite Unit
Hospira Inc	55788	GEN2	Combustion Turbine	New York	1.1	Dropped - Onsite Unit
AG Processing Inc	10223	E.C.	Coal Steam	Iowa	8.5	Dropped - Onsite Unit
Oxford Cogeneration Facility	52093	GEN1	Combustion Turbine	California	2.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Oxford Cogeneration Facility	52093	GEN2	Combustion Turbine	California	2.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
South Belridge Cogeneration Facility	50752	GEN1	Combustion Turbine	California	19	Dropped - Onsite Unit
South Belridge Cogeneration Facility	50752	GEN2	Combustion Turbine	California	19	Dropped - Onsite Unit
South Belridge Cogeneration Facility	50752	GEN3	Combustion Turbine	California	19	Dropped - Onsite Unit
Lost Hills Cogeneration Plant	52077	GEN4	Combustion Turbine	California	2.7	Dropped - Onsite Unit
Lost Hills Cogeneration Plant	52077	GEN5	Combustion Turbine	California	2.7	Dropped - Onsite Unit
Lost Hills Cogeneration Plant	52077	GEN6	Combustion Turbine	California	2.7	Dropped - Onsite Unit
AES Hawaii	10673	GEN1	Coal Steam	Hawaii	180	Dropped - in Alaska or in Hawaii
Agrium Kenai Nitrogen Operations	54452	744A	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
Agrium Kenai Nitrogen Operations	54452	744B	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
Agrium Kenai Nitrogen Operations	54452	744C	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
Agrium Kenai Nitrogen Operations	54452	744D	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
Agrium Kenai Nitrogen Operations	54452	744E	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
Southside Water Reclamation Plant	10339	GEN1	Non-Fossil Waste	New Mexico	2.1	Dropped - Onsite Unit
Southside Water Reclamation Plant	10339	GEN2	Non-Fossil Waste	New Mexico	2.1	Dropped - Onsite Unit
Southside Water Reclamation Plant	10339	GEN3	Non-Fossil Waste	New Mexico	1.1	Dropped - Onsite Unit
Southside Water Reclamation Plant	10339	GEN4	Non-Fossil Waste	New Mexico	1.1	Dropped - Onsite Unit
Annex Creek	62	5	Hydro	Alaska	1.8	Dropped - in Alaska or in Hawaii
Annex Creek	62	6	Hydro	Alaska	1.8	Dropped - in Alaska or in Hawaii
Gold Creek	63	1	Hydro	Alaska	0.8	Dropped - in Alaska or in Hawaii
Gold Creek	63	2	Hydro	Alaska	0.4	Dropped - in Alaska or in Hawaii
Gold Creek	63	3	Hydro	Alaska	0.4	Dropped - in Alaska or in Hawaii
Gold Creek	63	IC1	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Gold Creek	63	IC2	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Gold Creek	63	IC3	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Gold Creek	63	IC4	Combustion Turbine	Alaska	3.5	Dropped - in Alaska or in Hawaii
Gold Creek	63	IC5	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Lemon Creek	64	1	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	2	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	3	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	5	Combustion Turbine	Alaska	17.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	6	Combustion Turbine	Alaska	17.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	7	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	IC10	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	IC11	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	IC12	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	IC8	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lemon Creek	64	IC9	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Salmon Creek 1	65	HY7	Hydro	Alaska	5.2	Dropped - in Alaska or in Hawaii
Snettisham	78	1	Hydro	Alaska	23.5	Dropped - in Alaska or in Hawaii
Snettisham	78	2	Hydro	Alaska	23.5	Dropped - in Alaska or in Hawaii
Snettisham	78	3	Hydro	Alaska	31	Dropped - in Alaska or in Hawaii
Auke Bay	7250	13	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Auke Bay	7250	14	Combustion Turbine	Alaska	23	Dropped - in Alaska or in Hawaii
Auke Bay	7250	4	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Lake Dorothy Hydroelectric Project	57085	1	Hydro	Alaska	14.3	Dropped - in Alaska or in Hawaii
Skagway	66	1	Hydro	Alaska	0.4	Dropped - in Alaska or in Hawaii
Skagway	66	2	Hydro	Alaska	0.1	Dropped - in Alaska or in Hawaii
Skagway	66	3	Hydro	Alaska	0.3	Dropped - in Alaska or in Hawaii
Skagway	66	4	Hydro	Alaska	0.2	Dropped - in Alaska or in Hawaii
Skagway	66	6A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Skagway	66	7A	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Skagway	66	8A	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Skagway	66	9	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Haines	69	10	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Haines	69	5	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Haines	69	7A	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Haines	69	IC8A	Combustion Turbine	Alaska	1.6	Dropped - in Alaska or in Hawaii
Tok	406	3A	Combustion Turbine	Alaska	1.3	Dropped - in Alaska or in Hawaii
Tok	406	4A	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Tok	406	5A	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Tok	406	6	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Tok	406	7a	Combustion Turbine	Alaska	2.3	Dropped - in Alaska or in Hawaii
Tok	406	8	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Tok	406	9	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
Craig	421	1	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Craig	421	3A	Combustion Turbine	Alaska	1.6	Dropped - in Alaska or in Hawaii
Craig	421	5	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Craig	421	6	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Hydaburg	423	1A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Hydaburg	423	3A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Hydaburg	423	5	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Northway	7169	1A	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Northway	7169	2A	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Northway	7169	5	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Thorne Bay Plant	7414	2	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Thorne Bay Plant	7414	4	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Goat Lake Hydro	7751	1	Hydro	Alaska	4	Dropped - in Alaska or in Hawaii
Black Bear Lake	7752	1	Hydro	Alaska	4.5	Dropped - in Alaska or in Hawaii
False Island	56146	1	Combustion Turbine	Alaska	1.3	Dropped - in Alaska or in Hawaii
Viking	56147	1	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
South Fork	56265	1	Hydro	Alaska	1.9	Dropped - in Alaska or in Hawaii
Kasidaya Creek Hydro	56542	1	Hydro	Alaska	3	Dropped - in Alaska or in Hawaii
Emmonak	6314	2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Emmonak	6314	4a	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Emmonak	6314	5a	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Emmonak	6314	6	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
Hooper Bay	6319	3A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Hooper Bay	6319	4A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Hooper Bay	6319	5	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Hooper Bay	6319	6	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Kiana	6323	1B	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Kiana	6323	3A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Kiana	6323	4	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Mountain Village	6329	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Mountain Village	6329	3A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Mountain Village	6329	4	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Mountain Village	6329	5	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Noorvik	6330	1A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Noorvik	6330	2A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Noorvik	6330	3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
St Marys	6338	1B	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
St Marys	6338	2	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
St Marys	6338	3	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
Selawik	6341	1A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Selawik	6341	2A	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Selawik	6341	3A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Shishmaref	6345	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Shishmaref	6345	2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Shishmaref	6345	3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Shishmaref	6345	4	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Togiak	6348	2a	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Togiak	6348	4	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Togiak	6348	4a	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Noatak	57051	UNIT2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Noatak	57051	UNIT4	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Noatak	57051	UNIT5	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Savoonga	57052	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Savoonga	57052	UNIT2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Savoonga	57052	UNIT3	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Alakanuk	57053	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Alakanuk	57053	UNIT2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Alakanuk	57053	UNIT3	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Upper Kalskag	57054	UNIT1	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Upper Kalskag	57054	UNIT2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Upper Kalskag	57054	UNIT3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Stebbins	57055	UNIT1	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Stebbins	57055	UNIT2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Stebbins	57055	UNIT3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Scammon Bay	57056	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Scammon Bay	57056	UNIT2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Scammon Bay	57056	UNIT3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Quinhagak	57057	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Quinhagak	57057	UNIT2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Quinhagak	57057	UNIT3	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Pilot Station	57058	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Pilot Station	57058	UNIT2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Pilot Station	57058	UNIT3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Koyuk	57059	UNIT1	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Koyuk	57059	UNIT2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Koyuk	57059	UNIT3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Elim	57060	UNIT1	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Elim	57060	UNIT2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Elim	57060	UNIT3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
St. Michael	57061	UNIT1	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
St. Michael	57061	UNIT2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
St. Michael	57061	UNIT3	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Gambell	57062	UNIT1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Gambell	57062	UNIT2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Gambell	57062	UNIT3	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Shungnak	57063	UNIT1	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Shungnak	57063	UNIT2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Shungnak	57063	UNIT3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Shungnak	57063	UNIT4	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Kotlik	57064	UNIT1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Kotlik	57064	UNIT2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Kotlik	57064	UNIT3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Kotlik	57064	UNIT4	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Kivalina	57065	UNIT1	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Kivalina	57065	UNIT2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Kivalina	57065	UNIT3	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Kivalina	57065	UNIT4	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Kasigluk	57066	5A	Combustion Turbine	Alaska	0.7	Dropped - in Alaska or in Hawaii
Kasigluk	57066	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Kasigluk	57066	UNIT2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Toksook Bay	57067	UNIT1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Toksook Bay	57067	UNIT2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Toksook Bay	57067	UNIT3	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Akron Recycle Energy Plant	54265	1	Biomass	Ohio	2	Dropped - Onsite Unit
Akron Recycle Energy Plant	54265	2	Biomass	Ohio	2	Dropped - Onsite Unit
Cheoah	54899	1	Hydro	North Carolina	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cheoah	54899	2	Hydro	North Carolina	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cheoah	54899	3	Hydro	North Carolina	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cheoah	54899	4	Hydro	North Carolina	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Alliant SBD 9402 Climax	54930	5100	Combustion Turbine	Iowa	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Alliant SBD 9402 Climax	54930	5200	Combustion Turbine	Iowa	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Alliant SBD 9402 Climax	54930	5300	Combustion Turbine	Iowa	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Alliant SBD 9402 Climax	54930	5400	Combustion Turbine	Iowa	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Alliant SBD 9402 Climax	54930	5500	Combustion Turbine	Iowa	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Big Spring Texas Refinery	10569	GENA	Non-Fossil Waste	Texas	1.5	Dropped - Onsite Unit
Wasson CO2 Removal Plant	52122	GEN1	Combustion Turbine	Texas	14	Dropped - Onsite Unit
Amalgamated Sugar Twin Falls	10504	1500	Coal Steam	Idaho	1.2	Dropped - Onsite Unit
Amalgamated Sugar Twin Falls	10504	2500	Coal Steam	Idaho	2.3	Dropped - Onsite Unit
Amalgamated Sugar Twin Falls	10504	4000	Coal Steam	Idaho	5	Dropped - Onsite Unit
American Crystal Sugar Hillsboro	54210	G1	Coal Steam	North Dakota	13.3	Dropped - Onsite Unit
American Crystal Sugar Moorhead	54211	G1	Coal Steam	Minnesota	3	Dropped - Onsite Unit
American Crystal Sugar Moorhead	54211	G2	Coal Steam	Minnesota	2	Dropped - Onsite Unit
American Crystal Sugar Crookston	54212	G1	Coal Steam	Minnesota	3.5	Dropped - Onsite Unit
American Crystal Sugar Crookston	54212	G2	Coal Steam	Minnesota	3	Dropped - Onsite Unit
American Crystal Sugar Drayton	54213	G1	Coal Steam	North Dakota	6	Dropped - Onsite Unit
American Crystal Sugar East Grand Forks	54214	G1	Coal Steam	Minnesota	2.5	Dropped - Onsite Unit
American Crystal Sugar East Grand Forks	54214	G2	Coal Steam	Minnesota	5	Dropped - Onsite Unit
Domino Sugar Arabi Plant	54512	TG1	O/G Steam	Louisiana	4.2	Dropped - Onsite Unit
Domino Sugar Arabi Plant	54512	TG2	O/G Steam	Louisiana	2.4	Dropped - Onsite Unit
Domino Sugar Arabi Plant	54512	TG3	O/G Steam	Louisiana	3	Dropped - Onsite Unit
Anchorage 1	75	1	Combustion Turbine	Alaska	14	Dropped - in Alaska or in Hawaii
Anchorage 1	75	2	Combustion Turbine	Alaska	14	Dropped - in Alaska or in Hawaii
Anchorage 1	75	3R	Combustion Turbine	Alaska	29.3	Dropped - in Alaska or in Hawaii
Anchorage 1	75	4	Combustion Turbine	Alaska	31.1	Dropped - in Alaska or in Hawaii
Eklutna Hydro Project	77	1	Hydro	Alaska	22.2	Dropped - in Alaska or in Hawaii
Eklutna Hydro Project	77	2	Hydro	Alaska	22.2	Dropped - in Alaska or in Hawaii
George M Sullivan Generation Plant 2	6559	5	Combined Cycle	Alaska	33.8	Dropped - in Alaska or in Hawaii
George M Sullivan Generation Plant 2	6559	6	Combined Cycle	Alaska	34	Dropped - in Alaska or in Hawaii
George M Sullivan Generation Plant 2	6559	7	Combined Cycle	Alaska	74.4	Dropped - in Alaska or in Hawaii
George M Sullivan Generation Plant 2	6559	GT8	Combustion Turbine	Alaska	77.7	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Anheuser-Busch St Louis	10430	GEN1	Coal Steam	Missouri	11	Dropped - Onsite Unit
Anheuser-Busch St Louis	10430	GEN3	Coal Steam	Missouri	11	Dropped - Onsite Unit
Anheuser-Busch St Louis	10430	GEN4	Coal Steam	Missouri	4.1	Dropped - Onsite Unit
Anheuser-Busch Jacksonville	10431	GEN1	Combustion Turbine	Florida	8.6	Dropped - Onsite Unit
Archer Daniels Midland Clinton	10860	1A	Coal Steam	Iowa	75	Dropped - Onsite Unit
Archer Daniels Midland Clinton	10860	2A	Coal Steam	Iowa	105	Dropped - Onsite Unit
Archer Daniels Midland Des Moines	10861	GEN1	Coal Steam	Iowa	7.9	Dropped - Onsite Unit
Archer Daniels Midland Lincoln	10862	GEN1	Coal Steam	Nebraska	7.9	Dropped - Onsite Unit
Archer Daniels Midland Mankato	10863	GEN1	Coal Steam	Minnesota	6.2	Dropped - Onsite Unit
Archer Daniels Midland Cedar Rapids	10864	GEN1	Coal Steam	Iowa	31	Dropped - Onsite Unit
Archer Daniels Midland Cedar Rapids	10864	GEN2	Coal Steam	Iowa	31	Dropped - Onsite Unit
Archer Daniels Midland Cedar Rapids	10864	GEN3	Coal Steam	Iowa	31	Dropped - Onsite Unit
Archer Daniels Midland Cedar Rapids	10864	GEN4	Coal Steam	Iowa	31	Dropped - Onsite Unit
Archer Daniels Midland Cedar Rapids	10864	GEN5	Coal Steam	Iowa	31	Dropped - Onsite Unit
Archer Daniels Midland Cedar Rapids	10864	GEN6	Coal Steam	Iowa	105	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN2	Coal Steam	Illinois	31	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN3	Coal Steam	Illinois	31	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN4	Coal Steam	Illinois	31	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN5	Coal Steam	Illinois	31	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN6	Coal Steam	Illinois	31	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN7	Coal Steam	Illinois	75	Dropped - Onsite Unit
Archer Daniels Midland Decatur	10865	GEN8	Coal Steam	Illinois	105	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN1	Coal Steam	Illinois	1.5	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN2	Coal Steam	Illinois	1.5	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN3	Coal Steam	Illinois	4	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN4	Coal Steam	Illinois	4	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN5	Coal Steam	Illinois	4	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN6	Combustion Turbine	Illinois	15	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN7	Combustion Turbine	Illinois	15	Dropped - Onsite Unit
Archer Daniels Midland Peoria	10866	GEN8	Combustion Turbine	Illinois	10	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Galesburg	54310	GEN1	Combustion Turbine	Illinois	1	Dropped - Onsite Unit
Galesburg	54310	GEN2	Combustion Turbine	Illinois	1	Dropped - Onsite Unit
Galesburg	54310	GEN3	Combustion Turbine	Illinois	1	Dropped - Onsite Unit
Archer Daniels Midland Southport	54316	GEN1	Combustion Turbine	North Carolina	15	Dropped - Onsite Unit
Archer Daniels Midland Southport	54316	GEN2	Combustion Turbine	North Carolina	15	Dropped - Onsite Unit
Archer Daniels Midland Southport	54316	GEN3	Combustion Turbine	North Carolina	15	Dropped - Onsite Unit
Enderlin	54908	GEN1	Biomass	North Dakota	5.1	Dropped - Onsite Unit
Enderlin	54908	GEN2	Biomass	North Dakota	4.7	Dropped - Onsite Unit
Mansfield	55046	GEN1	Combustion Turbine	Massachusetts	1	Dropped - Onsite Unit
Mansfield	55046	GEN2	Combustion Turbine	Massachusetts	1	Dropped - Onsite Unit
Mansfield	55046	GEN3	Combustion Turbine	Massachusetts	1	Dropped - Onsite Unit
Walhalla	55638	GEN1	Coal Steam	North Dakota	2	Dropped - Onsite Unit
Perma Treat Corporation	10053	1	Biomass	Maine	0.5	Dropped - Onsite Unit
Perma Treat Corporation	10053	DG2	Combustion Turbine	Maine	0.5	Dropped - Onsite Unit
Pakini Nui Wind Farm	56378	1	Wind	Hawaii	21	Dropped - in Alaska or in Hawaii
Atlanta Gift Mart LP	54877	BUG	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit
Port Arthur Texas Refinery	10568	GEN1	Combustion Turbine	Texas	28.4	Dropped - Onsite Unit
Aurora Energy LLC Chena	79	1	Coal Steam	Alaska	6	Dropped - in Alaska or in Hawaii
Aurora Energy LLC Chena	79	2	Coal Steam	Alaska	2.5	Dropped - in Alaska or in Hawaii
Aurora Energy LLC Chena	79	5	Coal Steam	Alaska	23.9	Dropped - in Alaska or in Hawaii
B Braun Medical	50200	GEN1	Combustion Turbine	California	2.7	Dropped - Onsite Unit
B Braun Medical	50200	GEN2	Combustion Turbine	California	3	Dropped - Onsite Unit
Geismar	10319	GEN1	Combustion Turbine	Louisiana	33.7	Dropped - Onsite Unit
Geismar	10319	GEN2	Combustion Turbine	Louisiana	39.2	Dropped - Onsite Unit
Geismar	10319	GEN3	O/G Steam	Louisiana	7.2	Dropped - Onsite Unit
BASF Freeport Works	55311	GEN1	Combustion Turbine	Texas	75	Dropped - Onsite Unit
BASF Freeport Works	55311	GEN2	O/G Steam	Texas	11.7	Dropped - Onsite Unit
Barrow	7173	10	Combustion Turbine	Alaska	1.5	Dropped - in Alaska or in Hawaii
Barrow	7173	11	Combustion Turbine	Alaska	4.8	Dropped - in Alaska or in Hawaii
Barrow	7173	12	Combustion Turbine	Alaska	5	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Barrow	7173	6	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Barrow	7173	7	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Barrow	7173	8	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Barrow	7173	9	Combustion Turbine	Alaska	1.5	Dropped - in Alaska or in Hawaii
Bassett Healthcare	54863	1	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Bassett Healthcare	54863	2	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Bassett Healthcare	54863	3	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Bassett Healthcare	54863	4	Combustion Turbine	New York	1.6	Dropped - Onsite Unit
Bassett Healthcare	54863	5	Combustion Turbine	New York	2	Dropped - Onsite Unit
Bethel	6566	1	Combustion Turbine	Alaska	2.1	Dropped - in Alaska or in Hawaii
Bethel	6566	2	Combustion Turbine	Alaska	2.1	Dropped - in Alaska or in Hawaii
Bethel	6566	3	Combustion Turbine	Alaska	2.1	Dropped - in Alaska or in Hawaii
Bethel	6566	4	Combustion Turbine	Alaska	2.1	Dropped - in Alaska or in Hawaii
Bethel	6566	6	Combustion Turbine	Alaska	2.1	Dropped - in Alaska or in Hawaii
Bethel	6566	7	Combustion Turbine	Alaska	2.1	Dropped - in Alaska or in Hawaii
Biola University	54296	EG1	Combustion Turbine	California	0.6	Dropped - Onsite Unit
Biola University	54296	EG2	Combustion Turbine	California	0.6	Dropped - Onsite Unit
Biola University	54296	EG3	Combustion Turbine	California	1	Dropped - Onsite Unit
DeRidder Mill	10488	TG	Non-Fossil Waste	Louisiana	61.5	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG1	Combustion Turbine	South Carolina	1.1	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG2	Combustion Turbine	South Carolina	1.1	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG3	Combustion Turbine	South Carolina	1.1	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG4	Combustion Turbine	South Carolina	1.1	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG5	Combustion Turbine	South Carolina	1	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG6	Combustion Turbine	South Carolina	1	Dropped - Onsite Unit
Bob Jones University Cogen Plant	10280	ENG7	Combustion Turbine	South Carolina	1	Dropped - Onsite Unit
Boise Cascade International Falls	10486	GEN1	O/G Steam	Minnesota	4	Dropped - Onsite Unit
Boise Cascade International Falls	10486	GEN2	O/G Steam	Minnesota	4	Dropped - Onsite Unit
Boise Cascade International Falls	10486	GEN3	O/G Steam	Minnesota	7.5	Dropped - Onsite Unit
Boise Cascade International Falls	10486	GEN4	O/G Steam	Minnesota	7.5	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Boise Cascade International Falls	10486	GEN5	O/G Steam	Minnesota	6.2	Dropped - Onsite Unit
International Falls Power	10487	GEN1	Hydro	Minnesota	2.2	Dropped - Onsite Unit
International Falls Power	10487	GEN2	Hydro	Minnesota	2.2	Dropped - Onsite Unit
International Falls Power	10487	GEN3	Hydro	Minnesota	2.2	Dropped - Onsite Unit
International Falls Power	10487	GEN4	Hydro	Minnesota	2.2	Dropped - Onsite Unit
International Falls Power	10487	GEN5	Hydro	Minnesota	2.2	Dropped - Onsite Unit
International Falls Power	10487	GEN6	Hydro	Minnesota	1.6	Dropped - Onsite Unit
International Falls Power	10487	GEN7	Hydro	Minnesota	1.6	Dropped - Onsite Unit
U S Alliance Coosa Pines	54216	AOW6	Coal Steam	Alabama	11.6	Dropped - Onsite Unit
U S Alliance Coosa Pines	54216	GEN7	Non-Fossil Waste	Alabama	15	Dropped - Onsite Unit
Alliance Refinery	52031	GEN1	Combustion Turbine	Louisiana	6	Dropped - Onsite Unit
Alliance Refinery	52031	GEN2	O/G Steam	Louisiana	19	Dropped - Onsite Unit
Bristol Myers Squibb	54829	GEN1	Combustion Turbine	New Jersey	8.8	Dropped - Onsite Unit
Bristol Myers Squibb	54829	GEN2	O/G Steam	New Jersey	0.6	Dropped - Onsite Unit
Brooklyn	1128	1	Combustion Turbine	Iowa	0.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Brooklyn	1128	2	Combustion Turbine	Iowa	0.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Brooklyn	1128	3	Combustion Turbine	Iowa	0.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Brooklyn	1128	5	Combustion Turbine	Iowa	1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Brown University Central Heating	51029	EMG1	O/G Steam	Rhode Island	3	Dropped - Onsite Unit
Bunge Oil	52034	1	Combustion Turbine	Illinois	2.8	Dropped - Onsite Unit
Glines Hydroelectric Project	54050	GEN1	Hydro	Washington	6	Dropped - Onsite Unit
Elwha Hydroelectric Project	54051	GEN1	Hydro	Washington	3	Dropped - Onsite Unit
Elwha Hydroelectric Project	54051	GEN2	Hydro	Washington	3	Dropped - Onsite Unit
Elwha Hydroelectric Project	54051	GEN3	Hydro	Washington	3.2	Dropped - Onsite Unit
Elwha Hydroelectric Project	54051	GEN4	Hydro	Washington	3.3	Dropped - Onsite Unit
Buckeye Florida LP	50466	GEN2	Non-Fossil Waste	Florida	6.7	Dropped - Onsite Unit
Buckeye Florida LP	50466	GEN3	Non-Fossil Waste	Florida	9.7	Dropped - Onsite Unit
Buckeye Florida LP	50466	GEN4	Non-Fossil Waste	Florida	12.2	Dropped - Onsite Unit
Buckeye Florida LP	50466	GEN5	Non-Fossil Waste	Florida	9.3	Dropped - Onsite Unit
Sherwin Alumina	54291	1	Non-Fossil Waste	Texas	6	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Sherwin Alumina	54291	2	Non-Fossil Waste	Texas	6	Dropped - Onsite Unit
Sherwin Alumina	54291	3	Non-Fossil Waste	Texas	6	Dropped - Onsite Unit
Sherwin Alumina	54291	4	Non-Fossil Waste	Texas	6	Dropped - Onsite Unit
BP Carson Refinery	50540	GEN1	Non-Fossil Waste	California	6.5	Dropped - Onsite Unit
BP Carson Refinery	50540	GEN2	O/G Steam	California	1.5	Dropped - Onsite Unit
Cargill Salt	54965	ACTG	Coal Steam	Michigan	2	Dropped - Onsite Unit
Richard J Donovan Correctional Facility	54936	3	Combustion Turbine	California	2.2	Dropped - Onsite Unit
Naval Hospital Medical Center	50963	4TG	Combustion Turbine	California	4.4	Dropped - Onsite Unit
California Institute of Technology	10262	GEN6	Combined Cycle	California	9	Dropped - Onsite Unit
California Institute of Technology	10262	GEN7	Combined Cycle	California	2.1	Dropped - Onsite Unit
Rittman Paperboard	54235	GEN1	Coal Steam	Ohio	3	Dropped - Onsite Unit
Rittman Paperboard	54235	GEN2	Coal Steam	Ohio	5	Dropped - Onsite Unit
Rittman Paperboard	54235	GEN3	Coal Steam	Ohio	6	Dropped - Onsite Unit
Lee	2709	1	Coal Steam	North Carolina	74	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Lee	2709	2	Coal Steam	North Carolina	77	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Lee	2709	3	Coal Steam	North Carolina	240	Dropped - PLANNED_RETIREMENT_YEAR <=2015
W H Weatherspoon	2716	1	Coal Steam	North Carolina	48	Dropped - PLANNED_RETIREMENT_YEAR <=2015
W H Weatherspoon	2716	2	Coal Steam	North Carolina	48	Dropped - PLANNED_RETIREMENT_YEAR <=2015
W H Weatherspoon	2716	3	Coal Steam	North Carolina	74	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cargill Corn Wet Milling Plant	10729	GEN1	Coal Steam	Tennessee	10.3	Dropped - Onsite Unit
Cargill Corn Milling Division	10855	GEN1	Coal Steam	Iowa	18.7	Dropped - Onsite Unit
Cargill Corn Milling Division	10855	GEN2	Coal Steam	Iowa	18	Dropped - Onsite Unit
Caterpillar	50935	3512	Combustion Turbine	Indiana	0.8	Dropped - Onsite Unit
Caterpillar	50935	3516	Combustion Turbine	Indiana	0.8	Dropped - Onsite Unit
Caterpillar	50935	516A	Combustion Turbine	Indiana	1.8	Dropped - Onsite Unit
Caterpillar	50935	R12	Combustion Turbine	Indiana	0.3	Dropped - Onsite Unit
Bunge North America East LLC	50316	3516	Coal Steam	Indiana	2.2	Dropped - Onsite Unit
Central Michigan University	56190	GT1	Combustion Turbine	Michigan	3.2	Dropped - Onsite Unit
Central Michigan University	56190	STM1	Biomass	Michigan	1	Dropped - Onsite Unit
El Segundo Cogen	10213	GEN1	Combined Cycle	California	38.7	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
El Segundo Cogen	10213	GEN2	Combined Cycle	California	38.7	Dropped - Onsite Unit
El Segundo Cogen	10213	GEN3	Combined Cycle	California	1	Dropped - Onsite Unit
El Segundo Cogen	10213	GEN4	Combined Cycle	California	1	Dropped - Onsite Unit
El Segundo Cogen	10213	GEN5	Combined Cycle	California	39.2	Dropped - Onsite Unit
El Segundo Cogen	10213	GEN6	Combined Cycle	California	9.1	Dropped - Onsite Unit
Hawaii Cogen	10194	GEN1	Fossil Waste	Hawaii	3	Dropped - Onsite Unit
Hawaii Cogen	10194	GEN2	Fossil Waste	Hawaii	3	Dropped - Onsite Unit
Hawaii Cogen	10194	GEN3	Fossil Waste	Hawaii	3	Dropped - Onsite Unit
Oak Point Cogen	55857	5121	Combustion Turbine	Louisiana	4	Dropped - Onsite Unit
Oak Point Cogen	55857	5131	Combustion Turbine	Louisiana	4	Dropped - Onsite Unit
Oak Point Cogen	55857	5141	Combustion Turbine	Louisiana	4	Dropped - Onsite Unit
Oak Point Cogen	55857	5151	Combustion Turbine	Louisiana	4	Dropped - Onsite Unit
Oak Point Cogen	55857	5161	Combustion Turbine	Louisiana	4	Dropped - Onsite Unit
Pascagoula Cogen	52084	TG1	Fossil Waste	Mississippi	4	Dropped - Onsite Unit
Beluga	96	1	Combustion Turbine	Alaska	18.9	Dropped - in Alaska or in Hawaii
Beluga	96	2	Combustion Turbine	Alaska	18.9	Dropped - in Alaska or in Hawaii
Beluga	96	3	Combustion Turbine	Alaska	58	Dropped - in Alaska or in Hawaii
Beluga	96	5	Combustion Turbine	Alaska	61.4	Dropped - in Alaska or in Hawaii
Beluga	96	6	Combined Cycle	Alaska	72.6	Dropped - in Alaska or in Hawaii
Beluga	96	7	Combined Cycle	Alaska	70.6	Dropped - in Alaska or in Hawaii
Beluga	96	8	Combined Cycle	Alaska	44	Dropped - in Alaska or in Hawaii
Cooper Lake	6291	1	Hydro	Alaska	9.7	Dropped - in Alaska or in Hawaii
Cooper Lake	6291	2	Hydro	Alaska	9.7	Dropped - in Alaska or in Hawaii
Bernice Lake	6292	2	Combustion Turbine	Alaska	17	Dropped - in Alaska or in Hawaii
Bernice Lake	6292	3	Combustion Turbine	Alaska	22.9	Dropped - in Alaska or in Hawaii
Bernice Lake	6292	4	Combustion Turbine	Alaska	22.5	Dropped - in Alaska or in Hawaii
International	6293	1	Combustion Turbine	Alaska	12.6	Dropped - in Alaska or in Hawaii
International	6293	2	Combustion Turbine	Alaska	12.6	Dropped - in Alaska or in Hawaii
International	6293	3	Combustion Turbine	Alaska	16.7	Dropped - in Alaska or in Hawaii
CC Perry K	992	4	Coal Steam	Indiana	10	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
CC Perry K	992	6	Coal Steam	Indiana	3	Dropped - Onsite Unit
CC Perry K	992	7	Coal Steam	Indiana	1.7	Dropped - Onsite Unit
CC Perry K	992	8	Coal Steam	Indiana	1.7	Dropped - Onsite Unit
Puna Geothermal Venture I	52028	OEC11	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC12	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC13	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC14	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC15	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC21	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC22	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC23	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC24	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Puna Geothermal Venture I	52028	OEC25	Geothermal	Hawaii	3.1	Dropped - in Alaska or in Hawaii
Florida's Natural Growers	10275	CE50	Combustion Turbine	Florida	3.2	Dropped - Onsite Unit
Florida's Natural Growers	10275	TA70	Combustion Turbine	Florida	5.3	Dropped - Onsite Unit
Chino Mines	54667	7	Combined Cycle	New Mexico	15.4	Dropped - Onsite Unit
Chino Mines	54667	9	Combined Cycle	New Mexico	35	Dropped - Onsite Unit
Clark University	10408	GEN1	Combustion Turbine	Massachusetts	1.8	Dropped - Onsite Unit
Bank of America Plaza	55152	GEN1	Combustion Turbine	Georgia	1.3	Dropped - Onsite Unit
Bank of America Plaza	55152	GEN2	Combustion Turbine	Georgia	1.3	Dropped - Onsite Unit
Colonial Sugar Refinery	10301	GEN1	O/G Steam	Louisiana	0.6	Dropped - Onsite Unit
Colonial Sugar Refinery	10301	GEN2	O/G Steam	Louisiana	1.7	Dropped - Onsite Unit
Colonial Sugar Refinery	10301	GEN3	O/G Steam	Louisiana	1.5	Dropped - Onsite Unit
Colonial Sugar Refinery	10301	GEN4	O/G Steam	Louisiana	2.1	Dropped - Onsite Unit
Hewlett Packard Alpharetta	54457	ALF1	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Hewlett Packard Alpharetta	54457	ALF2	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Hewlett Packard Alpharetta	54457	ALF3	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Hewlett Packard Alpharetta	54457	ALF4	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Hewlett Packard Alpharetta	54457	ALF5	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Hewlett Packard Alpharetta	54457	B1GN1	Combustion Turbine	Georgia	1.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Hewlett Packard Alpharetta	54457	B1GN2	Combustion Turbine	Georgia	1.4	Dropped - Onsite Unit
Heat Recovery Coke Facility	55066	TG18	Non-Fossil Waste	Indiana	88	Dropped - Onsite Unit
Solomon Gulch	390	1	Hydro	Alaska	6	Dropped - in Alaska or in Hawaii
Solomon Gulch	390	2	Hydro	Alaska	6	Dropped - in Alaska or in Hawaii
Glennallen	6305	3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Glennallen	6305	4	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Glennallen	6305	5	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Glennallen	6305	6	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Glennallen	6305	7	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Glennallen	6305	8	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Glennallen	6305	9	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Valdez	6306	1	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Valdez	6306	2	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Valdez	6306	3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Valdez	6306	4	Combustion Turbine	Alaska	1.5	Dropped - in Alaska or in Hawaii
Valdez	6306	5	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Valdez	6306	6	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Valdez	6306	7	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Valdez Cogen	7841	1	Combustion Turbine	Alaska	5.1	Dropped - in Alaska or in Hawaii
Corn Products Stockton Plant	52115	GEN1	Combustion Turbine	California	2.8	Dropped - Onsite Unit
Anderson Power Products Division	10553	3622	Combustion Turbine	Massachusetts	0.1	Dropped - Onsite Unit
Anderson Power Products Division	10553	6033	Combustion Turbine	Massachusetts	0.3	Dropped - Onsite Unit
Anderson Power Products Division	10553	6035	Combustion Turbine	Massachusetts	0.3	Dropped - Onsite Unit
Anderson Power Products Division	10553	6046	Combustion Turbine	Massachusetts	0.3	Dropped - Onsite Unit
Cornell Hydro	10286	1	Hydro	New York	0.5	Dropped - Onsite Unit
Cornell Hydro	10286	2	Hydro	New York	1.1	Dropped - Onsite Unit
Corn Products Winston Salem	54618	7500	Biomass	North Carolina	6.6	Dropped - Onsite Unit
Corn Products Winston Salem	54618	900	Biomass	North Carolina	0.4	Dropped - Onsite Unit
Cutrale Citrus Juices USA I	10020	GEN1	Combustion Turbine	Florida	3.1	Dropped - Onsite Unit
Cutrale Citrus Juices USA II	10188	GEN1	Combined Cycle	Florida	3	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Cutrale Citrus Juices USA II	10188	GEN2	Combined Cycle	Florida	3	Dropped - Onsite Unit
Cutrale Citrus Juices USA II	10188	GEN3	Combined Cycle	Florida	1.3	Dropped - Onsite Unit
Crotched Mountain Rehabilitation Center	54515	GEN1	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Crotched Mountain Rehabilitation Center	54515	GEN2	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Crotched Mountain Rehabilitation Center	54515	GEN3	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Georgia Pacific Crossett	10606	GEN4	Non-Fossil Waste	Arkansas	28	Dropped - Onsite Unit
Georgia Pacific Crossett	10606	GEN5	Non-Fossil Waste	Arkansas	30	Dropped - Onsite Unit
Georgia Pacific Crossett	10606	GEN6	Non-Fossil Waste	Arkansas	34	Dropped - Onsite Unit
Dartmouth College Heating Plant	54409	GEN1	O/G Steam	New Hampshire	2	Dropped - Onsite Unit
Dartmouth College Heating Plant	54409	GEN2	O/G Steam	New Hampshire	2	Dropped - Onsite Unit
Dartmouth College Heating Plant	54409	GEN3	O/G Steam	New Hampshire	3	Dropped - Onsite Unit
Aniak	7182	1	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Aniak	7182	9	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Georgia-Pacific Corp - Nekoosa Mill	50395	HY1	Hydro	Wisconsin	0.8	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	HY2	Hydro	Wisconsin	0.8	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	HY3	Hydro	Wisconsin	0.8	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	HY4	Hydro	Wisconsin	0.6	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	HY5	Hydro	Wisconsin	0.7	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	NHG1	Hydro	Wisconsin	0.2	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	TG14	Non-Fossil Waste	Wisconsin	12.5	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	TG6	Coal Steam	Wisconsin	5.7	Dropped - Onsite Unit
Georgia-Pacific Corp - Nekoosa Mill	50395	TG8	Coal Steam	Wisconsin	13	Dropped - Onsite Unit
Des Moines Wastewater Reclamation Fac	50932	1	Non-Fossil Waste	Iowa	0.6	Dropped - Onsite Unit
Des Moines Wastewater Reclamation Fac	50932	2	Non-Fossil Waste	Iowa	0.6	Dropped - Onsite Unit
Des Moines Wastewater Reclamation Fac	50932	3	Non-Fossil Waste	Iowa	0.6	Dropped - Onsite Unit
Beaver Creek Gas Plant	55278	1	Combustion Turbine	Wyoming	1.8	Dropped - Onsite Unit
Beaver Creek Gas Plant	55278	2	Combustion Turbine	Wyoming	1.8	Dropped - Onsite Unit
Ashdown	54104	GEN1	Non-Fossil Waste	Arkansas	17	Dropped - Onsite Unit
Ashdown	54104	GEN2	Non-Fossil Waste	Arkansas	40	Dropped - Onsite Unit
Ashdown	54104	GEN3	Non-Fossil Waste	Arkansas	33	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Ashdown	54104	GEN4	Non-Fossil Waste	Arkansas	38	Dropped - Onsite Unit
Domino Sugar Baltimore	54795	GEN1	O/G Steam	Maryland	5	Dropped - Onsite Unit
Domino Sugar Baltimore	54795	GEN2	O/G Steam	Maryland	2.5	Dropped - Onsite Unit
Domino Sugar Baltimore	54795	GEN4	O/G Steam	Maryland	10	Dropped - Onsite Unit
ABC Coke	56076	1	Fossil Waste	Alabama	3.8	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-35	Combined Cycle	Texas	95.6	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-36	Combined Cycle	Texas	99	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-37	Combined Cycle	Texas	59.2	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-61	Combined Cycle	Texas	68.3	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-62	Combined Cycle	Texas	68.3	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-63	Combined Cycle	Texas	68.3	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-64	Combined Cycle	Texas	50	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-65	Combined Cycle	Texas	95.2	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-66	Combined Cycle	Texas	95.6	Dropped - Onsite Unit
Dow Chemical Texas Operation	52120	G-67	Combined Cycle	Texas	95.6	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN1	Combined Cycle	Louisiana	57	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN2	Combined Cycle	Louisiana	80	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN3	Combined Cycle	Louisiana	94	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN4	Combined Cycle	Louisiana	49	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN5	Combined Cycle	Louisiana	52	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN6	Combined Cycle	Louisiana	52	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN7	Combined Cycle	Louisiana	95	Dropped - Onsite Unit
Lao Energy Systems	52006	GEN8	Combined Cycle	Louisiana	95	Dropped - Onsite Unit
Buck	2720	3	Coal Steam	North Carolina	75	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buck	2720	4	Coal Steam	North Carolina	38	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buck	2720	5	Coal Steam	North Carolina	128	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buck	2720	6	Coal Steam	North Carolina	128	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buck	2720	7	Combustion Turbine	North Carolina	25	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buck	2720	8	Combustion Turbine	North Carolina	25	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buck	2720	9	Combustion Turbine	North Carolina	12	Dropped - PLANNED_RETIREMENT_YEAR <=2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Cliffside	2721	1	Coal Steam	North Carolina	38	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cliffside	2721	2	Coal Steam	North Carolina	38	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cliffside	2721	3	Coal Steam	North Carolina	61	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cliffside	2721	4	Coal Steam	North Carolina	61	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dan River	2723	1	Coal Steam	North Carolina	67	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dan River	2723	2	Coal Steam	North Carolina	67	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dan River	2723	3	Coal Steam	North Carolina	142	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dan River	2723	4	Combustion Turbine	North Carolina	24	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dan River	2723	5	Combustion Turbine	North Carolina	24	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dan River	2723	6	Combustion Turbine	North Carolina	24	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	10	Combustion Turbine	North Carolina	22	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	11	Combustion Turbine	North Carolina	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	4	Coal Steam	North Carolina	94	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	5	Coal Steam	North Carolina	94	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	6	Coal Steam	North Carolina	133	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	7	Coal Steam	North Carolina	133	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	8	Combustion Turbine	North Carolina	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverbend	2732	9	Combustion Turbine	North Carolina	22	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	10	Combustion Turbine	South Carolina	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	11	Combustion Turbine	South Carolina	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	12	Combustion Turbine	South Carolina	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	13	Combustion Turbine	South Carolina	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	14	Combustion Turbine	South Carolina	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	15	Combustion Turbine	South Carolina	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	6	Combustion Turbine	South Carolina	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	7	Combustion Turbine	South Carolina	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	8	Combustion Turbine	South Carolina	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Roost	3254	9	Combustion Turbine	South Carolina	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Durgin & Crowell Lumber	54870	3306	Combustion Turbine	New Hampshire	0.2	Dropped - Onsite Unit
Durgin & Crowell Lumber	54870	3512	Combustion Turbine	New Hampshire	1.3	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Woodridge Greene Valley Treatment Plant	54987	FM01	Combustion Turbine	Illinois	1.5	Dropped - Onsite Unit
Stingray Facility	54531	1S72	Combustion Turbine	Louisiana	2.5	Dropped - Onsite Unit
ExxonMobil Oil Joliet Refinery	50627	GTG1	Fossil Waste	Illinois	22	Dropped - Onsite Unit
ExxonMobil Oil Joliet Refinery	50627	MG	Fossil Waste	Illinois	11.2	Dropped - Onsite Unit
ExxonMobil Oil Joliet Refinery	50627	STG1	Fossil Waste	Illinois	6.5	Dropped - Onsite Unit
DSM Pharmaceuticals	54887	GEN1	Combustion Turbine	North Carolina	3.5	Dropped - Onsite Unit
DSM Pharmaceuticals	54887	GEN2	Combustion Turbine	North Carolina	0.3	Dropped - Onsite Unit
DSM Pharmaceuticals	54887	GEN3	Combustion Turbine	North Carolina	1.1	Dropped - Onsite Unit
DSM Pharmaceuticals	54887	GEN4	Combustion Turbine	North Carolina	1.2	Dropped - Onsite Unit
DSM Pharmaceuticals	54887	GEN5	Combustion Turbine	North Carolina	1	Dropped - Onsite Unit
DSM Pharmaceuticals	54887	GEN6	Combustion Turbine	North Carolina	1.2	Dropped - Onsite Unit
Sabine River Works	10789	GEN1	Combined Cycle	Texas	82	Dropped - Onsite Unit
Sabine River Works	10789	GEN3	Combined Cycle	Texas	5	Dropped - Onsite Unit
Sabine River Works	10789	GEN4	Combined Cycle	Texas	5	Dropped - Onsite Unit
Old Hickory Plant	10797	IG	O/G Steam	Tennessee	1	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG10	Coal Steam	Tennessee	6	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG11	Coal Steam	Tennessee	6	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG12	Coal Steam	Tennessee	6	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG13	Coal Steam	Tennessee	7	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG14	Coal Steam	Tennessee	10	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG15	Coal Steam	Tennessee	7.5	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG16	Coal Steam	Tennessee	10.4	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG17	Coal Steam	Tennessee	10.4	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG18	Coal Steam	Tennessee	10.4	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG19	Coal Steam	Tennessee	10.4	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG20	Coal Steam	Tennessee	10.4	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG21	Coal Steam	Tennessee	15	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG22	Coal Steam	Tennessee	15.4	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG24	Coal Steam	Tennessee	16.8	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TG25	Coal Steam	Tennessee	18	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Tennessee Eastman Operations	50481	TG26	Coal Steam	Tennessee	16.6	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TGO7	Coal Steam	Tennessee	6	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TGO8	Coal Steam	Tennessee	6	Dropped - Onsite Unit
Tennessee Eastman Operations	50481	TGO9	Coal Steam	Tennessee	6	Dropped - Onsite Unit
Eastman Gelatine	50955	GEN1	O/G Steam	Massachusetts	1.3	Dropped - Onsite Unit
Eastman Gelatine	50955	GEN2	O/G Steam	Massachusetts	1.5	Dropped - Onsite Unit
Eastman Gelatine	50955	GEN3	O/G Steam	Massachusetts	3.3	Dropped - Onsite Unit
Kodak Park Site	10025	17TG	Coal Steam	New York	15	Dropped - Onsite Unit
Kodak Park Site	10025	22TG	Coal Steam	New York	12.5	Dropped - Onsite Unit
Kodak Park Site	10025	41TG	Coal Steam	New York	25.6	Dropped - Onsite Unit
Kodak Park Site	10025	42TG	Coal Steam	New York	25.6	Dropped - Onsite Unit
Kodak Park Site	10025	43TG	Coal Steam	New York	25.6	Dropped - Onsite Unit
Kodak Park Site	10025	44TG	Coal Steam	New York	25.6	Dropped - Onsite Unit
Kodak Park Site	10025	KPR1	Hydro	New York	0.4	Dropped - Onsite Unit
Rio Grande	2444	6	O/G Steam	New Mexico	45	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Newman	3456	2	O/G Steam	Texas	76	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Encina Water Pollution Control	10026	EG10	Non-Fossil Waste	California	0.8	Dropped - Onsite Unit
Encina Water Pollution Control	10026	EG20	Non-Fossil Waste	California	0.8	Dropped - Onsite Unit
Encina Water Pollution Control	10026	EG30	Non-Fossil Waste	California	0.8	Dropped - Onsite Unit
Encina Water Pollution Control	10026	EG40	Non-Fossil Waste	California	0.8	Dropped - Onsite Unit
Hawi Wind Farm	56447	V-47	Wind	Hawaii	10.6	Dropped - in Alaska or in Hawaii
Erie Coke	50920	1	Fossil Waste	Pennsylvania	1	Dropped - Onsite Unit
Erving Paper Mills	54228	1	O/G Steam	Massachusetts	0.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cromby Generating Station	3159	1	Coal Steam	Pennsylvania	144	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cromby Generating Station	3159	2	O/G Steam	Pennsylvania	201	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cromby Generating Station	3159	ICI	Combustion Turbine	Pennsylvania	2.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Eddystone Generating Station	3161	1	Coal Steam	Pennsylvania	279	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Eddystone Generating Station	3161	2	Coal Steam	Pennsylvania	309	Dropped - PLANNED_RETIREMENT_YEAR <=2015
ExxonMobil Baton Rouge Turbine Generator	10690	CTG1	Combustion Turbine	Louisiana	76.7	Dropped - Onsite Unit
ExxonMobil Baytown Refinery	10436	GT38	Combustion Turbine	Texas	31	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
ExxonMobil Baytown Refinery	10436	GT41	Combustion Turbine	Texas	17	Dropped - Onsite Unit
ExxonMobil Baytown Refinery	10436	GT42	Combustion Turbine	Texas	17	Dropped - Onsite Unit
ExxonMobil Baytown Refinery	10436	GT43	Combustion Turbine	Texas	17	Dropped - Onsite Unit
ExxonMobil Baytown Refinery	10436	GT44	Combustion Turbine	Texas	17	Dropped - Onsite Unit
ExxonMobil Baytown Refinery	10436	GT45	Combustion Turbine	Texas	31	Dropped - Onsite Unit
ExxonMobil Baytown Refinery	10436	ST34	Non-Fossil Waste	Texas	7	Dropped - Onsite Unit
ExxonMobil Baytown Turbine	10692	GEN1	Combustion Turbine	Texas	31.7	Dropped - Onsite Unit
ExxonMobil Baytown Turbine	10692	GEN2	Combustion Turbine	Texas	31.7	Dropped - Onsite Unit
ExxonMobil Baytown Turbine	10692	GEN3	Combustion Turbine	Texas	31.7	Dropped - Onsite Unit
ExxonMobil Baytown Turbine	10692	GEN4	Combustion Turbine	Texas	85	Dropped - Onsite Unit
ExxonMobil Baytown Turbine	10692	GEN5	Combustion Turbine	Texas	140.3	Dropped - Onsite Unit
Corpus Refinery	50026	FCCE	Non-Fossil Waste	Texas	9.7	Dropped - Onsite Unit
Corpus Refinery	50026	FR6	Combustion Turbine	Texas	32	Dropped - Onsite Unit
ExxonMobil Santa Ynez Facility	50270	GTG1	Combined Cycle	California	40.2	Dropped - Onsite Unit
ExxonMobil Santa Ynez Facility	50270	STG1	Combined Cycle	California	8.9	Dropped - Onsite Unit
Shute Creek Facility	56312	021A	Fossil Waste	Wyoming	30.6	Dropped - Onsite Unit
Shute Creek Facility	56312	021B	Fossil Waste	Wyoming	30.6	Dropped - Onsite Unit
Shute Creek Facility	56312	021C	Fossil Waste	Wyoming	30.6	Dropped - Onsite Unit
Ford Motor Co Rawsonville Plant	10235	GEN1	Combustion Turbine	Michigan	4.5	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	BO3	Combined Cycle	Texas	32	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	ST1	Combined Cycle	Texas	28.5	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	ST2	Combined Cycle	Texas	57.5	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	ST3	Combined Cycle	Texas	47.3	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	TBG1	Combined Cycle	Texas	72	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	TBG2	Combined Cycle	Texas	72	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	TBG3	Combined Cycle	Texas	72	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	TBG4	Combined Cycle	Texas	72	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	TBG5	Combined Cycle	Texas	72	Dropped - Onsite Unit
Formosa Utility Venture Ltd	10554	TBG6	Combined Cycle	Texas	72	Dropped - Onsite Unit
Muskogee Mill	10362	GEN1	Coal Steam	Oklahoma	17	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Muskogee Mill	10362	GEN2	Coal Steam	Oklahoma	18.3	Dropped - Onsite Unit
Muskogee Mill	10362	GEN3	Coal Steam	Oklahoma	34.2	Dropped - Onsite Unit
Hampton Facility	10108	GEN1	Combustion Turbine	New Hampshire	0.5	Dropped - Onsite Unit
Hampton Facility	10108	GEN2	Combustion Turbine	New Hampshire	0.5	Dropped - Onsite Unit
Hampton Facility	10108	GEN3	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Hampton Facility	10108	GEN4	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Hampton Facility	10108	GEN5	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Hampton Facility	10108	GEN6	Combustion Turbine	New Hampshire	0.7	Dropped - Onsite Unit
Hampton Facility	10108	GEN8	Combustion Turbine	New Hampshire	3.8	Dropped - Onsite Unit
Ergon Refining Vicksburg	54918	TMO1	Combustion Turbine	Mississippi	4.4	Dropped - Onsite Unit
Fox Metro Water Reclamation District	50904	RU3	Combustion Turbine	Illinois	1.1	Dropped - Onsite Unit
Fox Metro Water Reclamation District	50904	RU4	Combustion Turbine	Illinois	1.1	Dropped - Onsite Unit
French Paper Hydro	10656	1	Hydro	Michigan	0.3	Dropped - Onsite Unit
French Paper Hydro	10656	2	Hydro	Michigan	0.4	Dropped - Onsite Unit
French Paper Hydro	10656	3	Hydro	Michigan	0.3	Dropped - Onsite Unit
French Paper Hydro	10656	4	Hydro	Michigan	0.2	Dropped - Onsite Unit
Village Creek Wastewater Treatment Plant	54520	SD2	Combustion Turbine	Texas	0.9	Dropped - Onsite Unit
Village Creek Wastewater Treatment Plant	54520	SD1	Combustion Turbine	Texas	0.9	Dropped - Onsite Unit
Village Creek Wastewater Treatment Plant	54520	TG1	Non-Fossil Waste	Texas	4.2	Dropped - Onsite Unit
Village Creek Wastewater Treatment Plant	54520	TG2	Non-Fossil Waste	Texas	4.2	Dropped - Onsite Unit
Evanston Township High School	54788	GEN1	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Evanston Township High School	54788	GEN2	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Evanston Township High School	54788	GEN3	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Georgia Pacific Center	54906	1	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit
Georgia Pacific Center	54906	2	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit
Galena Electric Utility	7437	1A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Galena Electric Utility	7437	2	Combustion Turbine	Alaska	0.7	Dropped - in Alaska or in Hawaii
Galena Electric Utility	7437	3A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Galena Electric Utility	7437	4A	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Galena Electric Utility	7437	5A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
C E Newman	3574	5	O/G Steam	Texas	37	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Gallup Refinery	50997	GEN1	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Gallup Refinery	50997	GEN2	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Gay Robinson	50333	DSL5	Combustion Turbine	Hawaii	0.5	Dropped - in Alaska or in Hawaii
Gay Robinson	50333	DSL6	Combustion Turbine	Hawaii	0.5	Dropped - in Alaska or in Hawaii
Gay Robinson	50333	HYD2	Hydro	Hawaii	0.8	Dropped - in Alaska or in Hawaii
Gay Robinson	50333	ST4	Biomass	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Gaylord Container Bogalusa	54427	NO10	Biomass	Louisiana	34.4	Dropped - Onsite Unit
Gaylord Container Bogalusa	54427	NO8	Biomass	Louisiana	23.3	Dropped - Onsite Unit
Gaylord Container Bogalusa	54427	NO9	Biomass	Louisiana	34.9	Dropped - Onsite Unit
General Electric Aircraft Engines	10029	GEN5	O/G Steam	Massachusetts	10	Dropped - Onsite Unit
General Electric Aircraft Engines	10029	GEN6	O/G Steam	Massachusetts	10	Dropped - Onsite Unit
General Electric Aircraft Engines	10029	GEN7	O/G Steam	Massachusetts	12.5	Dropped - Onsite Unit
General Electric Aircraft Engines	10029	GEN8	Combustion Turbine	Massachusetts	21.1	Dropped - Onsite Unit
General Mills West Chicago	54924	1	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	2	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	3	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	4	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	5	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	6	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	7	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Mills West Chicago	54924	8	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
General Chemical	54318	TG1	Coal Steam	Wyoming	15	Dropped - Onsite Unit
General Chemical	54318	TG2	Coal Steam	Wyoming	15	Dropped - Onsite Unit
General Electric Diesel Engine Plant	10058	REGN	Combustion Turbine	Pennsylvania	4.3	Dropped - Onsite Unit
General Mills Inc	54564	GEN1	Combustion Turbine	New York	3.4	Dropped - Onsite Unit
Savannah River Mill	10361	GEN1	Combustion Turbine	Georgia	21.4	Dropped - Onsite Unit
Savannah River Mill	10361	GEN2	Combustion Turbine	Georgia	21.4	Dropped - Onsite Unit
Savannah River Mill	10361	GEN3	Coal Steam	Georgia	41.9	Dropped - Onsite Unit
Savannah River Mill	10361	GEN4	Coal Steam	Georgia	41.9	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Georgia Pacific Naheola Mill	10699	GEN1	Non-Fossil Waste	Alabama	14.5	Dropped - Onsite Unit
Georgia Pacific Naheola Mill	10699	GEN2	Non-Fossil Waste	Alabama	14.5	Dropped - Onsite Unit
Georgia Pacific Naheola Mill	10699	GT3	Non-Fossil Waste	Alabama	43.8	Dropped - Onsite Unit
Tate & Lyle Decatur Plant Cogen	10867	GEN1	Coal Steam	Illinois	58.1	Dropped - Onsite Unit
Sagamore Plant Cogeneration	50903	GEN1	Coal Steam	Indiana	7.4	Dropped - Onsite Unit
Harlee Branch	709	1	Coal Steam	Georgia	266	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harlee Branch	709	2	Coal Steam	Georgia	325	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Jack McDonough	710	1	Coal Steam	Georgia	251	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Jack McDonough	710	2	Coal Steam	Georgia	251	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Mitchell	727	4C	Combustion Turbine	Georgia	31	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Georgia Pacific Monticello Paper	10610	GEN1	Non-Fossil Waste	Mississippi	36	Dropped - Onsite Unit
Georgia Pacific Monticello Paper	10610	GEN2	Non-Fossil Waste	Mississippi	32	Dropped - Onsite Unit
Georgia Pacific Big Island	50479	BHG1	Hydro	Virginia	0.2	Dropped - Onsite Unit
Georgia Pacific Big Island	50479	BHG2	Hydro	Virginia	0.2	Dropped - Onsite Unit
Georgia Pacific Big Island	50479	GEN1	Biomass	Virginia	6.5	Dropped - Onsite Unit
CITGO Refinery Powerhouse	52175	GEN1	Fossil Waste	Louisiana	7.4	Dropped - Onsite Unit
CITGO Refinery Powerhouse	52175	GEN2	Fossil Waste	Louisiana	9.4	Dropped - Onsite Unit
CITGO Refinery Powerhouse	52175	GEN3	Fossil Waste	Louisiana	17.5	Dropped - Onsite Unit
Georgia Pacific Cedar Springs	54101	GEN1	Non-Fossil Waste	Georgia	45	Dropped - Onsite Unit
Georgia Pacific Cedar Springs	54101	GEN2	Non-Fossil Waste	Georgia	45	Dropped - Onsite Unit
General Mills Operations Lodi	10031	1	Combustion Turbine	California	3.2	Dropped - Onsite Unit
Romulus Operations Powertrain	10159	GEN1	Combustion Turbine	Michigan	6	Dropped - Onsite Unit
Gillette SBMC	54225	DG	Combustion Turbine	Massachusetts	0.5	Dropped - Onsite Unit
Gillette SBMC	54225	DG2	Combustion Turbine	Massachusetts	0.5	Dropped - Onsite Unit
Gillette SBMC	54225	DG3	Combustion Turbine	Massachusetts	1	Dropped - Onsite Unit
Gillette SBMC	54225	TG1	O/G Steam	Massachusetts	6.3	Dropped - Onsite Unit
Gillette SBMC	54225	TG2	O/G Steam	Massachusetts	5	Dropped - Onsite Unit
Powertrain Warren General Motors	10032	GT1	Combustion Turbine	Michigan	2.7	Dropped - Onsite Unit
North Pole	6285	1	Combustion Turbine	Alaska	48	Dropped - in Alaska or in Hawaii
North Pole	6285	2	Combustion Turbine	Alaska	48	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
North Pole	6285	GT3	Combined Cycle	Alaska	41	Dropped - in Alaska or in Hawaii
North Pole	6285	STG1	Combined Cycle	Alaska	7	Dropped - in Alaska or in Hawaii
Fairbanks	6286	5	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Fairbanks	6286	6	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Fairbanks	6286	GT1	Combustion Turbine	Alaska	16	Dropped - in Alaska or in Hawaii
Fairbanks	6286	GT2	Combustion Turbine	Alaska	16.3	Dropped - in Alaska or in Hawaii
Healy	6288	1	Coal Steam	Alaska	25	Dropped - in Alaska or in Hawaii
Healy	6288	IC1	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Delta Power	56325	6	Combustion Turbine	Alaska	23.1	Dropped - in Alaska or in Hawaii
Battery Energy Storage System	57583	BESS	Non-Fossil Waste	Alaska	27	Dropped - in Alaska or in Hawaii
Gowrie	1141	1	Combustion Turbine	Iowa	1.1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Gowrie	1141	2	Combustion Turbine	Iowa	1.1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Graphic Packaging	10698	GEN1	O/G Steam	Michigan	5	Dropped - Onsite Unit
Graphic Packaging	10698	GEN2	O/G Steam	Michigan	1.5	Dropped - Onsite Unit
Grossmont Hospital	10115	GEN1	Combustion Turbine	California	0.8	Dropped - Onsite Unit
Grossmont Hospital	10115	GEN2	Combustion Turbine	California	0.8	Dropped - Onsite Unit
Gwitchyaa Zhee	7174	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Gwitchyaa Zhee	7174	3	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Gwitchyaa Zhee	7174	6	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Cheboygan	50461	GEN1	Hydro	Michigan	0.7	Dropped - Onsite Unit
Hamakua Energy Plant	55369	CT1	Fossil Waste	Hawaii	21.7	Dropped - in Alaska or in Hawaii
Hamakua Energy Plant	55369	CT2	Fossil Waste	Hawaii	21.7	Dropped - in Alaska or in Hawaii
Hamakua Energy Plant	55369	ST1	Fossil Waste	Hawaii	17.4	Dropped - in Alaska or in Hawaii
International Paper Prattville Mill	52140	GEN1	Non-Fossil Waste	Alabama	31.1	Dropped - Onsite Unit
International Paper Prattville Mill	52140	GEN2	Non-Fossil Waste	Alabama	44.9	Dropped - Onsite Unit
Hawaiian Comm & Sugar Puunene Mill	10604	PUU3	Biomass	Hawaii	10	Dropped - in Alaska or in Hawaii
Hawaiian Comm & Sugar Puunene Mill	10604	PUU4	Biomass	Hawaii	20	Dropped - in Alaska or in Hawaii
Hawaiian Comm & Sugar Puunene Mill	10604	PUU5	Biomass	Hawaii	16.1	Dropped - in Alaska or in Hawaii
Kaheka Hydro	55864	KAH1	Hydro	Hawaii	1.5	Dropped - in Alaska or in Hawaii
Kaheka Hydro	55864	KAH2	Hydro	Hawaii	1.5	Dropped - in Alaska or in Hawaii

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Kaheka Hydro	55864	KAH3	Hydro	Hawaii	1.5	Dropped - in Alaska or in Hawaii
Waimea	768	12	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Waimea	768	13	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Waimea	768	14	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Kanoelehua	769	11	Combustion Turbine	Hawaii	2	Dropped - in Alaska or in Hawaii
Kanoelehua	769	15	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Kanoelehua	769	16	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Kanoelehua	769	17	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Kanoelehua	769	CT1	Combustion Turbine	Hawaii	10.5	Dropped - in Alaska or in Hawaii
Puueo	771	1	Hydro	Hawaii	0.7	Dropped - in Alaska or in Hawaii
Puueo	771	2A	Hydro	Hawaii	2.4	Dropped - in Alaska or in Hawaii
W H Hill	772	5	O/G Steam	Hawaii	14.1	Dropped - in Alaska or in Hawaii
W H Hill	772	6	O/G Steam	Hawaii	21.4	Dropped - in Alaska or in Hawaii
Waiau	774	1	Hydro	Hawaii	0.7	Dropped - in Alaska or in Hawaii
Waiau	774	2	Hydro	Hawaii	0.3	Dropped - in Alaska or in Hawaii
Shipman	6478	3	O/G Steam	Hawaii	7.5	Dropped - in Alaska or in Hawaii
Shipman	6478	4	O/G Steam	Hawaii	7.5	Dropped - in Alaska or in Hawaii
Puna	7130	1	O/G Steam	Hawaii	14	Dropped - in Alaska or in Hawaii
Puna	7130	3	Combustion Turbine	Hawaii	20	Dropped - in Alaska or in Hawaii
Keahole	8083	2	Combustion Turbine	Hawaii	15.9	Dropped - in Alaska or in Hawaii
Keahole	8083	21	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Keahole	8083	22	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Keahole	8083	23	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Keahole	8083	7	Combined Cycle	Hawaii	16	Dropped - in Alaska or in Hawaii
Keahole	8083	CT4	Combined Cycle	Hawaii	19.8	Dropped - in Alaska or in Hawaii
Keahole	8083	CT5	Combined Cycle	Hawaii	19.8	Dropped - in Alaska or in Hawaii
Hendricks Regional Health	54731	GE06	Combustion Turbine	Indiana	1	Dropped - Onsite Unit
Hendricks Regional Health	54731	GEO1	Combustion Turbine	Indiana	0.5	Dropped - Onsite Unit
Hendricks Regional Health	54731	GEO2	Combustion Turbine	Indiana	0.5	Dropped - Onsite Unit
Hendricks Regional Health	54731	GEO3	Combustion Turbine	Indiana	0.3	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Hendricks Regional Health	54731	GEO4	Combustion Turbine	Indiana	1	Dropped - Onsite Unit
Hendricks Regional Health	54731	GEO5	Combustion Turbine	Indiana	1	Dropped - Onsite Unit
Hercules Brunswick Plant	10120	GEN5	Biomass	Georgia	7.1	Dropped - Onsite Unit
Hercules Brunswick Plant	10120	GEN6	Biomass	Georgia	2	Dropped - Onsite Unit
CSL Behring LLC	54790	GEN1	Combustion Turbine	Illinois	3.8	Dropped - Onsite Unit
Hofstra University	51035	GEN1	Combustion Turbine	New York	1.1	Dropped - Onsite Unit
Hofstra University	51035	GEN2	Combustion Turbine	New York	1.1	Dropped - Onsite Unit
Aventis Pharmaceuticals	10122	2	Combustion Turbine	New Jersey	4	Dropped - Onsite Unit
Hoge Lumber	10739	AC3M	Biomass	Ohio	1.2	Dropped - Onsite Unit
Hoge Lumber	10739	W750	Biomass	Ohio	0.3	Dropped - Onsite Unit
Hoffmann LaRoche	10123	TG01	Combustion Turbine	New Jersey	4.1	Dropped - Onsite Unit
Hoffmann LaRoche	10123	TG03	Combustion Turbine	New Jersey	4.1	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN1	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN2	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN3	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN4	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN5	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN6	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN7	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN8	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Hoffer Plastics	54523	GEN9	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Center Falls	10853	1	Hydro	New York	0.3	Dropped - Onsite Unit
Center Falls	10853	2	Hydro	New York	0.3	Dropped - Onsite Unit
Center Falls	10853	3	Hydro	New York	0.2	Dropped - Onsite Unit
Honeywell Farms	10125	1	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Honeywell Farms	10125	2	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Honeywell Farms	10125	3	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Honeywell Farms	10125	4	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Honeywell Farms	10125	5	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Honeywell Farms	10125	6	Combustion Turbine	New York	0.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Riverside	1607	4	Hydro	Massachusetts	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Riverside	1607	5	Hydro	Massachusetts	0.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cabot Holyoke	9864	6	O/G Steam	Massachusetts	9.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cabot Holyoke	9864	8	O/G Steam	Massachusetts	9.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	ALBA	Hydro	Massachusetts	0.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	ALBD	Hydro	Massachusetts	0.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	C-AB	Hydro	Massachusetts	0.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	C-C	Hydro	Massachusetts	0.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	GILA	Hydro	Massachusetts	0.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	GILD	Hydro	Massachusetts	0.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	NONO	Hydro	Massachusetts	0.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Harris Energy Realty	54981	TOM	Hydro	Massachusetts	0.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Hopkinton	8108	IC2	Combustion Turbine	Iowa	1.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Hopkinton	8108	IC3	Combustion Turbine	Iowa	1.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Hugoton 1	1289	6	Combustion Turbine	Kansas	1.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Hutzel Hospital	10232	TB-1	Combustion Turbine	Michigan	0.7	Dropped - Onsite Unit
Hutzel Hospital	10232	TB-2	Combustion Turbine	Michigan	0.7	Dropped - Onsite Unit
Hutchinson Plant #1	1980	5	Combustion Turbine	Minnesota	1.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Hutchinson Plant #1	1980	6	Combustion Turbine	Minnesota	1.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Hutchinson Plant #1	1980	7	Combustion Turbine	Minnesota	4.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
New Halen	7183	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
New Halen	7183	2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
New Halen	7183	3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
New Halen	7183	4	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
International Paper Riegelwood Mill	54656	NO 1	Non-Fossil Waste	North Carolina	7.8	Dropped - Onsite Unit
International Paper Riegelwood Mill	54656	NO 2	Non-Fossil Waste	North Carolina	8.3	Dropped - Onsite Unit
International Paper Riegelwood Mill	54656	NO3	Non-Fossil Waste	North Carolina	44.5	Dropped - Onsite Unit
Ingersoll Milling Machine	50989	71	Combustion Turbine	Illinois	0.6	Dropped - Onsite Unit
Ingersoll Milling Machine	50989	72	Combustion Turbine	Illinois	0.6	Dropped - Onsite Unit
Ingersoll Milling Machine	50989	73	Combustion Turbine	Illinois	0.6	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Ingersoll Milling Machine	50989	74	Combustion Turbine	Illinois	0.6	Dropped - Onsite Unit
Ingersoll Milling Machine	50989	75	Combustion Turbine	Illinois	0.6	Dropped - Onsite Unit
Ingersoll Milling Machine	50989	76	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Ingersoll Milling Machine	50989	77	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Mansfield Mill	54091	GEN1	Non-Fossil Waste	Louisiana	24.6	Dropped - Onsite Unit
Mansfield Mill	54091	GEN2	Non-Fossil Waste	Louisiana	25.6	Dropped - Onsite Unit
Mansfield Mill	54091	GEN3	Non-Fossil Waste	Louisiana	22.1	Dropped - Onsite Unit
Mansfield Mill	54091	GEN4	Combustion Turbine	Louisiana	14.8	Dropped - Onsite Unit
Indian River Generating Station	594	3	Coal Steam	Delaware	170	Dropped - PLANNED_RETIREMENT_YEAR <=2015
International Paper Franklin Mill	52152	GE10	Combustion Turbine	Virginia	38	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN1	Non-Fossil Waste	Virginia	5	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN2	Non-Fossil Waste	Virginia	3.7	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN3	Non-Fossil Waste	Virginia	2.5	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN6	Non-Fossil Waste	Virginia	9.3	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN7	Non-Fossil Waste	Virginia	15.6	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN8	Non-Fossil Waste	Virginia	27.5	Dropped - Onsite Unit
International Paper Franklin Mill	52152	GEN9	Non-Fossil Waste	Virginia	36.1	Dropped - Onsite Unit
Ticonderoga Mill	54099	GEN1	O/G Steam	New York	41	Dropped - Onsite Unit
International Paper Augusta Mill	54358	1	Non-Fossil Waste	Georgia	25.3	Dropped - Onsite Unit
International Paper Augusta Mill	54358	2	Non-Fossil Waste	Georgia	36.5	Dropped - Onsite Unit
International Paper Augusta Mill	54358	3	Non-Fossil Waste	Georgia	17.5	Dropped - Onsite Unit
International Paper Vicksburg Mill	54100	GEN1	Non-Fossil Waste	Mississippi	1.5	Dropped - Onsite Unit
International Paper Vicksburg Mill	54100	GEN2	Non-Fossil Waste	Mississippi	37	Dropped - Onsite Unit
International Paper Courtland Mill	50245	ABB	Non-Fossil Waste	Alabama	62	Dropped - Onsite Unit
International Paper Courtland Mill	50245	GE	Non-Fossil Waste	Alabama	27	Dropped - Onsite Unit
International Paper Courtland Mill	50245	GT	Combustion Turbine	Alabama	30	Dropped - Onsite Unit
International Paper Texarkana Mill	54097	GEN1	Non-Fossil Waste	Texas	25	Dropped - Onsite Unit
International Paper Texarkana Mill	54097	GEN2	Non-Fossil Waste	Texas	40	Dropped - Onsite Unit
International Paper Georgetown Mill	54087	GEN1	Non-Fossil Waste	South Carolina	23.8	Dropped - Onsite Unit
International Paper Georgetown Mill	54087	GEN2	Biomass	South Carolina	27.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
International Paper Georgetown Mill	54087	GEN3	Biomass	South Carolina	37.7	Dropped - Onsite Unit
International Paper Riverdale Mill	54096	GEN1	O/G Steam	Alabama	7	Dropped - Onsite Unit
International Paper Riverdale Mill	54096	GEN2	O/G Steam	Alabama	31	Dropped - Onsite Unit
International Paper Riverdale Mill	54096	GEN3	Combined Cycle	Alabama	5	Dropped - Onsite Unit
International Paper Riverdale Mill	54096	GEN4	Combined Cycle	Alabama	32	Dropped - Onsite Unit
Interstate Paper LLC Riceboro	54281	577A	Non-Fossil Waste	Georgia	13	Dropped - Onsite Unit
International Paper Pensacola	50250	GEN1	Non-Fossil Waste	Florida	36	Dropped - Onsite Unit
International Paper Pensacola	50250	GEN2	Non-Fossil Waste	Florida	40	Dropped - Onsite Unit
Iowa Methodist Medical Center	10655	1	Combustion Turbine	Iowa	1.5	Dropped - Onsite Unit
Iowa Methodist Medical Center	10655	2	Combustion Turbine	Iowa	1.5	Dropped - Onsite Unit
Iowa Methodist Medical Center	10655	3	Combustion Turbine	Iowa	0.5	Dropped - Onsite Unit
Dubuque	1046	3	Coal Steam	Iowa	31.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dubuque	1046	4	Coal Steam	Iowa	36.3	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Fox Lake	1888	1	O/G Steam	Minnesota	12.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
International Paper Eastover Facility	52151	GEN1	Non-Fossil Waste	South Carolina	46	Dropped - Onsite Unit
International Paper Eastover Facility	52151	GEN2	Non-Fossil Waste	South Carolina	57	Dropped - Onsite Unit
Iowa State University	54201	GEN3	Coal Steam	Iowa	13.3	Dropped - Onsite Unit
Iowa State University	54201	GEN4	Coal Steam	Iowa	6.3	Dropped - Onsite Unit
Iowa State University	54201	GEN5	Coal Steam	Iowa	11.5	Dropped - Onsite Unit
Iowa State University	54201	GEN6	Coal Steam	Iowa	15.1	Dropped - Onsite Unit
Arcelormittal Cleveland Inc	10398	GEN3	Fossil Waste	Ohio	10	Dropped - Onsite Unit
Arcelormittal Cleveland Inc	10398	GEN5	Fossil Waste	Ohio	10	Dropped - Onsite Unit
Arcelormittal Cleveland Inc	10398	GENA	Fossil Waste	Ohio	15	Dropped - Onsite Unit
Arcelormittal Cleveland Inc	10398	GENB	Fossil Waste	Ohio	10	Dropped - Onsite Unit
Arcelormittal Cleveland Inc	10398	GENC	Fossil Waste	Ohio	23	Dropped - Onsite Unit
IVEX Packaging	52032	1	Combustion Turbine	Illinois	3.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Jefferson Smurfit Fernandina Beach	10202	GEN5	Biomass	Florida	30	Dropped - Onsite Unit
Jefferson Smurfit Fernandina Beach	10202	GEN6	Coal Steam	Florida	50	Dropped - Onsite Unit
John Deere Dubuque Works	54414	GE10	Combustion Turbine	Iowa	1.4	Dropped - Onsite Unit
John Deere Dubuque Works	54414	GEN5	Combustion Turbine	Iowa	1.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
John Deere Dubuque Works	54414	GEN6	Combustion Turbine	Iowa	1.4	Dropped - Onsite Unit
John Deere Dubuque Works	54414	GEN7	Combustion Turbine	Iowa	1.4	Dropped - Onsite Unit
John Deere Dubuque Works	54414	GEN8	Combustion Turbine	Iowa	1.4	Dropped - Onsite Unit
John Deere Dubuque Works	54414	GEN9	Combustion Turbine	Iowa	1.4	Dropped - Onsite Unit
John Deere Harvester Works	10039	GEN2	Coal Steam	Illinois	2	Dropped - Onsite Unit
John Deere Harvester Works	10039	GEN4	Coal Steam	Illinois	2.5	Dropped - Onsite Unit
John Deere Harvester Works	10039	GEN5	Coal Steam	Illinois	3	Dropped - Onsite Unit
John Deere Harvester Works	10039	GEN6	Coal Steam	Illinois	2.5	Dropped - Onsite Unit
King Cove	7493	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
King Cove	7493	2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
King Cove	7493	3	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
King Cove	7493	4	Hydro	Alaska	0.7	Dropped - in Alaska or in Hawaii
King Cove	7493	5	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Kalaeola Cogen Plant	54646	CT1	Combined Cycle	Hawaii	82	Dropped - in Alaska or in Hawaii
Kalaeola Cogen Plant	54646	CT2	Combined Cycle	Hawaii	82	Dropped - in Alaska or in Hawaii
Kalaeola Cogen Plant	54646	ST	Combined Cycle	Hawaii	50	Dropped - in Alaska or in Hawaii
Port Allen	6474	3	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Port Allen	6474	4	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Port Allen	6474	5	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Port Allen	6474	8	Combustion Turbine	Hawaii	7.6	Dropped - in Alaska or in Hawaii
Port Allen	6474	9	Combustion Turbine	Hawaii	7.6	Dropped - in Alaska or in Hawaii
Port Allen	6474	D6	Combustion Turbine	Hawaii	7.6	Dropped - in Alaska or in Hawaii
Port Allen	6474	D7	Combustion Turbine	Hawaii	7.6	Dropped - in Alaska or in Hawaii
Port Allen	6474	GT1	Combined Cycle	Hawaii	17.5	Dropped - in Alaska or in Hawaii
Port Allen	6474	GT2	Combined Cycle	Hawaii	22.6	Dropped - in Alaska or in Hawaii
Port Allen	6474	IC1	Combustion Turbine	Hawaii	1.7	Dropped - in Alaska or in Hawaii
Port Allen	6474	IC2	Combustion Turbine	Hawaii	1.7	Dropped - in Alaska or in Hawaii
Port Allen	6474	ST1	Combined Cycle	Hawaii	9	Dropped - in Alaska or in Hawaii
Kapaia Power Station	56258	CT1	Combustion Turbine	Hawaii	26.6	Dropped - in Alaska or in Hawaii
Kaweah Delta District Hospital	10042	KDHT1	Combustion Turbine	California	3.5	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Swan Lake	70	1	Hydro	Alaska	11.2	Dropped - in Alaska or in Hawaii
Swan Lake	70	2	Hydro	Alaska	11.2	Dropped - in Alaska or in Hawaii
Ketchikan	84	3	Hydro	Alaska	1.4	Dropped - in Alaska or in Hawaii
Ketchikan	84	4	Hydro	Alaska	1.4	Dropped - in Alaska or in Hawaii
Ketchikan	84	5	Hydro	Alaska	1.4	Dropped - in Alaska or in Hawaii
S W Bailey	85	1	Combustion Turbine	Alaska	3.5	Dropped - in Alaska or in Hawaii
S W Bailey	85	2	Combustion Turbine	Alaska	3.5	Dropped - in Alaska or in Hawaii
S W Bailey	85	3	Combustion Turbine	Alaska	5.5	Dropped - in Alaska or in Hawaii
S W Bailey	85	4	Combustion Turbine	Alaska	10.5	Dropped - in Alaska or in Hawaii
Beaver Falls	6580	1	Hydro	Alaska	1	Dropped - in Alaska or in Hawaii
Beaver Falls	6580	3	Hydro	Alaska	2.2	Dropped - in Alaska or in Hawaii
Beaver Falls	6580	4	Hydro	Alaska	2.2	Dropped - in Alaska or in Hawaii
Silvis	6581	1	Hydro	Alaska	2.1	Dropped - in Alaska or in Hawaii
Klein Tools Chicago	10498	17	Combustion Turbine	Illinois	1.5	Dropped - Onsite Unit
Koppers Chicago Plant	10732	GEN1	Fossil Waste	Illinois	5	Dropped - Onsite Unit
Terror Lake	71	1	Hydro	Alaska	11.2	Dropped - in Alaska or in Hawaii
Terror Lake	71	2	Hydro	Alaska	11.2	Dropped - in Alaska or in Hawaii
Kodiak	6281	1	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Kodiak	6281	2c	Combustion Turbine	Alaska	4.4	Dropped - in Alaska or in Hawaii
Kodiak	6281	3c	Combustion Turbine	Alaska	4.4	Dropped - in Alaska or in Hawaii
Kodiak	6281	4	Combustion Turbine	Alaska	7	Dropped - in Alaska or in Hawaii
Kodiak	6281	6A	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Kodiak	6281	7A	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Port Lions	6282	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Port Lions	6282	2	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Port Lions	6282	3	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Port Lions	6282	4	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Nymans Plant	7723	1	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Nymans Plant	7723	2	Combustion Turbine	Alaska	7.3	Dropped - in Alaska or in Hawaii
Pillar Mountain Wind Project	57187	1	Wind	Alaska	4.5	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Kotzebue	6304	10	Combustion Turbine	Alaska	3	Dropped - in Alaska or in Hawaii
Kotzebue	6304	10wt	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	11	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	11wt	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	12	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	12wt	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	13WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	14	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Kotzebue	6304	14wt	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	15	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Kotzebue	6304	15WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	16WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	17WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	1WT	Wind	Alaska	0.6	Dropped - in Alaska or in Hawaii
Kotzebue	6304	2WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	3WT	Wind	Alaska	0.2	Dropped - in Alaska or in Hawaii
Kotzebue	6304	4WT	Wind	Alaska	0.5	Dropped - in Alaska or in Hawaii
Kotzebue	6304	5WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	6WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	7A	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	7WT	Wind	Alaska	0.3	Dropped - in Alaska or in Hawaii
Kotzebue	6304	8WT	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Kotzebue	6304	9wt	Wind	Alaska	0.1	Dropped - in Alaska or in Hawaii
Lagoon Cogeneration Facility	50942	1	Combustion Turbine	Utah	0.5	Dropped - Onsite Unit
Lagoon Cogeneration Facility	50942	2	Combustion Turbine	Utah	0.5	Dropped - Onsite Unit
Lagoon Cogeneration Facility	50942	3	Combustion Turbine	Utah	0.5	Dropped - Onsite Unit
Lavalley Lumber LLC	50914	1500	Biomass	Maine	1.2	Dropped - Onsite Unit
Lavalley Lumber LLC	50914	350	Combustion Turbine	Maine	0.3	Dropped - Onsite Unit
Lederle Laboratories	10521	3A	Combined Cycle	New York	1.5	Dropped - Onsite Unit
Lederle Laboratories	10521	GEN1	Combined Cycle	New York	8.3	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Lederle Laboratories	10521	GEN2	Combined Cycle	New York	8.3	Dropped - Onsite Unit
Lederle Laboratories	10521	GEN3	Combined Cycle	New York	2.2	Dropped - Onsite Unit
Lederle Laboratories	10521	TG4	Combined Cycle	New York	2	Dropped - Onsite Unit
Leviton Manufacturing	55637	GEN1	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
Fourche Creek Wastewater	10050	3	Non-Fossil Waste	Arkansas	0.5	Dropped - Onsite Unit
Fourche Creek Wastewater	10050	4	Non-Fossil Waste	Arkansas	1.3	Dropped - Onsite Unit
Hoover Company	55536	542	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
Hoover Company	55536	543	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
Hoover Company	55536	544	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
Hoover Company	55536	545	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
Loma Linda University Cogen	10206	GEN1	Combined Cycle	California	4.8	Dropped - Onsite Unit
Loma Linda University Cogen	10206	GEN2	Combined Cycle	California	4.8	Dropped - Onsite Unit
Loma Linda University Cogen	10206	GEN3	Combined Cycle	California	1.2	Dropped - Onsite Unit
Loma Linda University Cogen	10206	GEN4	Combustion Turbine	California	1.7	Dropped - Onsite Unit
Longview Fibre	54562	4	Non-Fossil Waste	Washington	10	Dropped - Onsite Unit
Longview Fibre	54562	6	Non-Fossil Waste	Washington	22	Dropped - Onsite Unit
Longview Fibre	54562	7	Non-Fossil Waste	Washington	25	Dropped - Onsite Unit
Longview Fibre	54562	8	Combustion Turbine	Washington	60	Dropped - Onsite Unit
Total Energy Facilities	10091	G2	Non-Fossil Waste	California	8	Dropped - Onsite Unit
Total Energy Facilities	10091	G3	Non-Fossil Waste	California	8	Dropped - Onsite Unit
Total Energy Facilities	10091	GEN1	Non-Fossil Waste	California	8	Dropped - Onsite Unit
Total Energy Facilities	10091	GEN4	Fossil Waste	California	4.7	Dropped - Onsite Unit
Louisiana Tech University Power Plant	54240	TG3	Combustion Turbine	Louisiana	6.4	Dropped - Onsite Unit
Lowell	1837	5	Combustion Turbine	Michigan	1.1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Lowell	1837	6	Combustion Turbine	Michigan	1.1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Lowell	1837	7	Combustion Turbine	Michigan	1.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
South Georgia Medical Center	54848	GEN 7	Combustion Turbine	Georgia	0.8	Dropped - Onsite Unit
South Georgia Medical Center	54848	GEN1	Combustion Turbine	Georgia	0.4	Dropped - Onsite Unit
South Georgia Medical Center	54848	GEN2	Combustion Turbine	Georgia	0.4	Dropped - Onsite Unit
South Georgia Medical Center	54848	GEN3	Combustion Turbine	Georgia	0.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
South Georgia Medical Center	54848	GEN4	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit
Lutheran Medical Center	54769	GEN1	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Lutheran Medical Center	54769	GEN2	Combustion Turbine	New York	0.8	Dropped - Onsite Unit
Mars Snackfood US	54855	1	Combustion Turbine	Illinois	3	Dropped - Onsite Unit
M C Dixon Lumber	54745	GEN1	Biomass	Alabama	2.1	Dropped - Onsite Unit
MARS Chocolate North American LLC	10061	GEN1	Combined Cycle	New Jersey	10	Dropped - Onsite Unit
MARS Chocolate North American LLC	10061	GEN2	Combined Cycle	New Jersey	0.7	Dropped - Onsite Unit
M A Patout Son Ltd	51008	1000	Biomass	Louisiana	1	Dropped - Onsite Unit
M A Patout Son Ltd	51008	2000	Biomass	Louisiana	2	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	G101	Combustion Turbine	Massachusetts	22	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	G201	Combustion Turbine	Massachusetts	22	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	H101	Hydro	Massachusetts	1	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	H201	Hydro	Massachusetts	1	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	PV101	Solar PV	Massachusetts	0.1	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	S101	Non-Fossil Waste	Massachusetts	9	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	WT101	Wind	Massachusetts	0.6	Dropped - Onsite Unit
Deer Island Treatment Plant	10823	WT102	Wind	Massachusetts	0.6	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB1	Hydro	Maine	2.2	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB2	Hydro	Maine	2.2	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB3	Hydro	Maine	2.2	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB4	Hydro	Maine	2.2	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB5	Hydro	Maine	2.2	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB6	Hydro	Maine	2.6	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB7	Hydro	Maine	2.2	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AB8	Hydro	Maine	0.3	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AN1	Hydro	Maine	1.8	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AN2	Hydro	Maine	1.8	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AN3	Hydro	Maine	1.8	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AN4	Hydro	Maine	1.8	Dropped - Onsite Unit
Anson Abenaki Hydros	10186	AN5	Hydro	Maine	1.8	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Anson Abenaki Hydros	10186	STG1	O/G Steam	Maine	2	Dropped - Onsite Unit
Blount Street	3992	3	Coal Steam	Wisconsin	39.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Blount Street	3992	4	Coal Steam	Wisconsin	21.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Blount Street	3992	5	Coal Steam	Wisconsin	26.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Marathon Electric	50990	P1-1	Combustion Turbine	Wisconsin	0.4	Dropped - Onsite Unit
Marathon Electric	50990	P1-2	Combustion Turbine	Wisconsin	0.4	Dropped - Onsite Unit
Marathon Electric	50990	P2-3	Combustion Turbine	Wisconsin	0.9	Dropped - Onsite Unit
Marathon Electric	50990	P2-4	Combustion Turbine	Wisconsin	0.9	Dropped - Onsite Unit
Martinez Refining	54912	GTG1	Combined Cycle	California	36	Dropped - Onsite Unit
Martinez Refining	54912	GTG2	Combined Cycle	California	36	Dropped - Onsite Unit
Martinez Refining	54912	STG1	Combined Cycle	California	18	Dropped - Onsite Unit
Eastern Correctional Institute	10693	1147	Biomass	Maryland	1.3	Dropped - Onsite Unit
Eastern Correctional Institute	10693	1148	Biomass	Maryland	1.3	Dropped - Onsite Unit
Eastern Correctional Institute	10693	DG1	Combustion Turbine	Maryland	1	Dropped - Onsite Unit
Eastern Correctional Institute	10693	DG2	Combustion Turbine	Maryland	1	Dropped - Onsite Unit
Mass Inst Tech Cntrl Utilities/Cogen Pt	54907	CTG1	Combustion Turbine	Massachusetts	19	Dropped - Onsite Unit
Unalakleet	6299	5	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Unalakleet	6299	6	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Unalakleet	6299	7	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Unalakleet	6299	8	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Palaau Power	792	15	Combustion Turbine	Hawaii	2	Dropped - in Alaska or in Hawaii
Palaau Power	792	7	Combustion Turbine	Hawaii	2.1	Dropped - in Alaska or in Hawaii
Palaau Power	792	8	Combustion Turbine	Hawaii	2.1	Dropped - in Alaska or in Hawaii
Palaau Power	792	9	Combustion Turbine	Hawaii	2.1	Dropped - in Alaska or in Hawaii
Palaau Power	792	CAT1	Combustion Turbine	Hawaii	1.2	Dropped - in Alaska or in Hawaii
Palaau Power	792	CAT2	Combustion Turbine	Hawaii	1.2	Dropped - in Alaska or in Hawaii
Palaau Power	792	CUM3	Combustion Turbine	Hawaii	0.9	Dropped - in Alaska or in Hawaii
Palaau Power	792	CUM4	Combustion Turbine	Hawaii	0.9	Dropped - in Alaska or in Hawaii
Palaau Power	792	CUM5	Combustion Turbine	Hawaii	0.9	Dropped - in Alaska or in Hawaii
Palaau Power	792	CUM6	Combustion Turbine	Hawaii	0.9	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Kahului	6056	1	O/G Steam	Hawaii	4.7	Dropped - in Alaska or in Hawaii
Kahului	6056	2	O/G Steam	Hawaii	4.7	Dropped - in Alaska or in Hawaii
Kahului	6056	3	O/G Steam	Hawaii	11	Dropped - in Alaska or in Hawaii
Kahului	6056	4	O/G Steam	Hawaii	11.9	Dropped - in Alaska or in Hawaii
Maalaea	6504	1	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Maalaea	6504	10	Combustion Turbine	Hawaii	12	Dropped - in Alaska or in Hawaii
Maalaea	6504	11	Combustion Turbine	Hawaii	12	Dropped - in Alaska or in Hawaii
Maalaea	6504	12	Combustion Turbine	Hawaii	12	Dropped - in Alaska or in Hawaii
Maalaea	6504	13	Combustion Turbine	Hawaii	12	Dropped - in Alaska or in Hawaii
Maalaea	6504	14	Combined Cycle	Hawaii	20	Dropped - in Alaska or in Hawaii
Maalaea	6504	15	Combined Cycle	Hawaii	15	Dropped - in Alaska or in Hawaii
Maalaea	6504	16	Combined Cycle	Hawaii	20	Dropped - in Alaska or in Hawaii
Maalaea	6504	17	Combined Cycle	Hawaii	21.2	Dropped - in Alaska or in Hawaii
Maalaea	6504	18	Combined Cycle	Hawaii	15	Dropped - in Alaska or in Hawaii
Maalaea	6504	19	Combined Cycle	Hawaii	21.2	Dropped - in Alaska or in Hawaii
Maalaea	6504	2	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Maalaea	6504	3	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Maalaea	6504	4	Combustion Turbine	Hawaii	5.3	Dropped - in Alaska or in Hawaii
Maalaea	6504	5	Combustion Turbine	Hawaii	5.3	Dropped - in Alaska or in Hawaii
Maalaea	6504	6	Combustion Turbine	Hawaii	5.4	Dropped - in Alaska or in Hawaii
Maalaea	6504	7	Combustion Turbine	Hawaii	5.4	Dropped - in Alaska or in Hawaii
Maalaea	6504	8	Combustion Turbine	Hawaii	5.3	Dropped - in Alaska or in Hawaii
Maalaea	6504	9	Combustion Turbine	Hawaii	5.4	Dropped - in Alaska or in Hawaii
Maalaea	6504	X1	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Maalaea	6504	X2	Combustion Turbine	Hawaii	2.5	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL1	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL2	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL3	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL4	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL5	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Miki Basin	7264	LL6	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL7	Combustion Turbine	Hawaii	2.1	Dropped - in Alaska or in Hawaii
Miki Basin	7264	LL8	Combustion Turbine	Hawaii	2.1	Dropped - in Alaska or in Hawaii
Hana Substation	56055	MH1	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Hana Substation	56055	MH2	Combustion Turbine	Hawaii	1	Dropped - in Alaska or in Hawaii
Kalaheo Hydro	10412	KAL	Hydro	Hawaii	1.1	Dropped - in Alaska or in Hawaii
Wainiha Hydro	10413	WAIA	Hydro	Hawaii	1.7	Dropped - in Alaska or in Hawaii
Wainiha Hydro	10413	WAIB	Hydro	Hawaii	1.7	Dropped - in Alaska or in Hawaii
McGrath	6555	6	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
McGrath	6555	7	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Monterey Regional Water Cogen Facility	54951	EG1	Non-Fossil Waste	California	0.5	Dropped - Onsite Unit
Monterey Regional Water Cogen Facility	54951	EG2	Non-Fossil Waste	California	0.5	Dropped - Onsite Unit
Monterey Regional Water Cogen Facility	54951	EG3	Non-Fossil Waste	California	0.5	Dropped - Onsite Unit
Mead Coated Board	54802	GEN1	Biomass	Alabama	32	Dropped - Onsite Unit
Mead Coated Board	54802	GEN2	Biomass	Alabama	55.5	Dropped - Onsite Unit
Mead Coated Board	54802	GEN3	Combustion Turbine	Alabama	21	Dropped - Onsite Unit
West Point	52149	COG3	Combustion Turbine	Pennsylvania	38.5	Dropped - Onsite Unit
West Point	52149	GEN1	O/G Steam	Pennsylvania	3	Dropped - Onsite Unit
West Point	52149	GEN2	Combustion Turbine	Pennsylvania	24.5	Dropped - Onsite Unit
West Point	52149	GEN3	Combustion Turbine	Pennsylvania	2.4	Dropped - Onsite Unit
West Point	52149	GEN4	Combustion Turbine	Pennsylvania	1.7	Dropped - Onsite Unit
West Point	52149	GEN5	Combustion Turbine	Pennsylvania	1.2	Dropped - Onsite Unit
West Point	52149	GEN6	Combustion Turbine	Pennsylvania	1.2	Dropped - Onsite Unit
West Point	52149	GEN7	Combustion Turbine	Pennsylvania	0.7	Dropped - Onsite Unit
West Point	52149	GEN8	Combustion Turbine	Pennsylvania	1	Dropped - Onsite Unit
West Point	52149	GEN9	Combustion Turbine	Pennsylvania	0.9	Dropped - Onsite Unit
West Point	52149	GN10	Combustion Turbine	Pennsylvania	0.9	Dropped - Onsite Unit
West Point	52149	GN11	Combustion Turbine	Pennsylvania	0.9	Dropped - Onsite Unit
MeadWestvaco Evadale	50101	GEN1	Non-Fossil Waste	Texas	7.5	Dropped - Onsite Unit
MeadWestvaco Evadale	50101	GEN2	Non-Fossil Waste	Texas	32.6	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
MeadWestvaco Evadale	50101	GEN3	Non-Fossil Waste	Texas	17.6	Dropped - Onsite Unit
Merck Rahway Power Plant	10224	GEN8	O/G Steam	New Jersey	4.8	Dropped - Onsite Unit
Merck Rahway Power Plant	10224	GEN9	O/G Steam	New Jersey	10	Dropped - Onsite Unit
Elkton	52148	GEN1	O/G Steam	Virginia	2	Dropped - Onsite Unit
Elkton	52148	GEN2	Combustion Turbine	Virginia	0.8	Dropped - Onsite Unit
Metropolitan Sewerage District	10181	GEN1	Hydro	North Carolina	0.8	Dropped - Onsite Unit
Metropolitan Sewerage District	10181	GEN2	Hydro	North Carolina	0.8	Dropped - Onsite Unit
Metropolitan Sewerage District	10181	GEN3	Hydro	North Carolina	0.8	Dropped - Onsite Unit
Purple Lake	6302	1	Hydro	Alaska	1.3	Dropped - in Alaska or in Hawaii
Purple Lake	6302	2	Hydro	Alaska	1.3	Dropped - in Alaska or in Hawaii
Purple Lake	6302	3	Hydro	Alaska	1.3	Dropped - in Alaska or in Hawaii
Centennial	7112	IC6	Combustion Turbine	Alaska	3.3	Dropped - in Alaska or in Hawaii
Chester Lake	7168	1	Hydro	Alaska	1	Dropped - in Alaska or in Hawaii
Central District Wastewater Treat Plant	54623	1	Non-Fossil Waste	Florida	1.2	Dropped - Onsite Unit
Central District Wastewater Treat Plant	54623	2	Non-Fossil Waste	Florida	1.2	Dropped - Onsite Unit
Central District Wastewater Treat Plant	54623	3	Non-Fossil Waste	Florida	1.2	Dropped - Onsite Unit
Central District Wastewater Treat Plant	54623	4	Non-Fossil Waste	Florida	1.2	Dropped - Onsite Unit
South District Wastewater Treatment Plt	54624	1	Non-Fossil Waste	Florida	0.9	Dropped - Onsite Unit
South District Wastewater Treatment Plt	54624	2	Non-Fossil Waste	Florida	0.9	Dropped - Onsite Unit
South District Wastewater Treatment Plt	54624	3	Non-Fossil Waste	Florida	0.9	Dropped - Onsite Unit
Potomac River	3788	1	Coal Steam	Virginia	88	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potomac River	3788	2	Coal Steam	Virginia	88	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potomac River	3788	3	Coal Steam	Virginia	102	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potomac River	3788	4	Coal Steam	Virginia	102	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potomac River	3788	5	Coal Steam	Virginia	102	Dropped - PLANNED_RETIREMENT_YEAR <=2015
MMSD Jones Island Wastewater	54851	GEN1	Combustion Turbine	Wisconsin	13	Dropped - Onsite Unit
MMSD Jones Island Wastewater	54851	GEN2	Combustion Turbine	Wisconsin	13	Dropped - Onsite Unit
MMSD South Shore Wastewater	55525	1	Non-Fossil Waste	Wisconsin	1.4	Dropped - Onsite Unit
MMSD South Shore Wastewater	55525	1CAT	Non-Fossil Waste	Wisconsin	0.9	Dropped - Onsite Unit
MMSD South Shore Wastewater	55525	2CAT	Non-Fossil Waste	Wisconsin	0.9	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
MMSD South Shore Wastewater	55525	3CAT	Non-Fossil Waste	Wisconsin	0.9	Dropped - Onsite Unit
MMSD South Shore Wastewater	55525	4CAT	Non-Fossil Waste	Wisconsin	0.9	Dropped - Onsite Unit
Potrero Power	273	3	O/G Steam	California	206	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potrero Power	273	4	Combustion Turbine	California	52	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potrero Power	273	5	Combustion Turbine	California	52	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Potrero Power	273	6	Combustion Turbine	California	52	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Contra Costa	228	6	O/G Steam	California	335	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Contra Costa	228	7	O/G Steam	California	337	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Mills Pride	54978	2058	Biomass	Ohio	0.5	Dropped - Onsite Unit
Mills Pride	54978	2076	Biomass	Ohio	0.5	Dropped - Onsite Unit
Eaton	2046	1	O/G Steam	Mississippi	24.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Eaton	2046	2	O/G Steam	Mississippi	24.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Eaton	2046	3	O/G Steam	Mississippi	24.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Mississippi Baptist Medical Center	54203	A	Combustion Turbine	Mississippi	4	Dropped - Onsite Unit
ExxonMobil Oil Torrance Refinery	50624	EXP1	Coal Steam	California	7.5	Dropped - Onsite Unit
ExxonMobil Oil Torrance Refinery	50624	GTG1	Combustion Turbine	California	22.5	Dropped - Onsite Unit
ExxonMobil Oil Torrance Refinery	50624	STG1	Non-Fossil Waste	California	19.3	Dropped - Onsite Unit
Montclair Cogen Facility	54708	1	Combustion Turbine	New Jersey	3.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Motiva Enterprises Port Arthur Refinery	50973	GN26	Combined Cycle	Texas	9.7	Dropped - Onsite Unit
Motiva Enterprises Port Arthur Refinery	50973	GN27	O/G Steam	Texas	4.3	Dropped - Onsite Unit
Motiva Enterprises Port Arthur Refinery	50973	GN31	O/G Steam	Texas	5.9	Dropped - Onsite Unit
Motiva Enterprises Port Arthur Refinery	50973	GN32	O/G Steam	Texas	15	Dropped - Onsite Unit
Motiva Enterprises Port Arthur Refinery	50973	GN33	O/G Steam	Texas	8	Dropped - Onsite Unit
Motiva Enterprises Port Arthur Refinery	50973	GN34	Combined Cycle	Texas	15.6	Dropped - Onsite Unit
Motiva Enterprises Port Arthur Refinery	50973	GN35	Combined Cycle	Texas	22.5	Dropped - Onsite Unit
Morton Salt Rittman	54335	GEN1	Coal Steam	Ohio	1.5	Dropped - Onsite Unit
Mosinee Paper	50614	GEN1	Non-Fossil Waste	Wisconsin	13	Dropped - Onsite Unit
Mosinee Paper	50614	HYD1	Hydro	Wisconsin	2	Dropped - Onsite Unit
Mosinee Paper	50614	HYD2	Hydro	Wisconsin	0.7	Dropped - Onsite Unit
Mosinee Paper	50614	HYD3	Hydro	Wisconsin	0.7	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Mosinee Paper	50614	WEST	Non-Fossil Waste	Wisconsin	5	Dropped - Onsite Unit
Murphy-Brown LLC	55002	1	Combustion Turbine	North Carolina	1.2	Dropped - Onsite Unit
Murphy-Brown LLC	55002	2	Combustion Turbine	North Carolina	1.2	Dropped - Onsite Unit
Papillion Creek Wastewater	55027	951	Non-Fossil Waste	Nebraska	0.5	Dropped - Onsite Unit
Papillion Creek Wastewater	55027	952	Non-Fossil Waste	Nebraska	0.5	Dropped - Onsite Unit
Papillion Creek Wastewater	55027	953	Non-Fossil Waste	Nebraska	0.5	Dropped - Onsite Unit
Missouri River Wastewater Treatment	55033	6013	Non-Fossil Waste	Nebraska	1	Dropped - Onsite Unit
Missouri River Wastewater Treatment	55033	6101	Non-Fossil Waste	Nebraska	1	Dropped - Onsite Unit
Missouri River Wastewater Treatment	55033	6102	Non-Fossil Waste	Nebraska	1	Dropped - Onsite Unit
Naknek	6301	4A	Combustion Turbine	Alaska	1.3	Dropped - in Alaska or in Hawaii
Naknek	6301	5A	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Naknek	6301	6A	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Naknek	6301	7A	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Naknek	6301	8	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Naknek	6301	NA1	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Naknek	6301	NA2	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Naknek	6301	NA3	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Naknek	6301	NA4	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Naknek	6301	NA5	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
New York University Central Plant	54808	D2	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	D3	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	D4	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	D5	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	D6	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	D7	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	DI	Combustion Turbine	New York	0.6	Dropped - Onsite Unit
New York University Central Plant	54808	GT1	Combined Cycle	New York	5.5	Dropped - Onsite Unit
New York University Central Plant	54808	GT2	Combined Cycle	New York	5.5	Dropped - Onsite Unit
New York University Central Plant	54808	T1	Combined Cycle	New York	1.8	Dropped - Onsite Unit
Newman	54250	1	O/G Steam	Pennsylvania	1.8	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Snake River	90	11	Combustion Turbine	Alaska	1.5	Dropped - in Alaska or in Hawaii
Snake River	90	12	Combustion Turbine	Alaska	3.7	Dropped - in Alaska or in Hawaii
Snake River	90	14	Combustion Turbine	Alaska	1.9	Dropped - in Alaska or in Hawaii
Snake River	90	15	Combustion Turbine	Alaska	5.2	Dropped - in Alaska or in Hawaii
Snake River	90	16	Combustion Turbine	Alaska	5.2	Dropped - in Alaska or in Hawaii
Snake River	90	9	Combustion Turbine	Alaska	2.9	Dropped - in Alaska or in Hawaii
Juniata Locomotive Shop	10302	GEN1	Coal Steam	Pennsylvania	0.3	Dropped - Onsite Unit
Juniata Locomotive Shop	10302	GEN2	Coal Steam	Pennsylvania	0.3	Dropped - Onsite Unit
Dean H Mitchell	996	9A	Combustion Turbine	Indiana	17	Dropped - PLANNED_RETIREMENT_YEAR <=2015
5 AC Station	54995	17TG	Fossil Waste	Indiana	75	Dropped - Onsite Unit
Black Dog	1904	3	Coal Steam	Minnesota	79	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Black Dog	1904	4	Coal Steam	Minnesota	162	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dillingham	109	10	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Dillingham	109	11	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Dillingham	109	12	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Dillingham	109	13	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Dillingham	109	14	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Dillingham	109	15	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Dillingham	109	16	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Wichita Plant	50169	GEN1	Combustion Turbine	Kansas	27	Dropped - Onsite Unit
Bayville Central Facility	54569	COG1	Non-Fossil Waste	New Jersey	0.3	Dropped - Onsite Unit
Bayville Central Facility	54569	COG2	Non-Fossil Waste	New Jersey	0.3	Dropped - Onsite Unit
Bayville Central Facility	54569	COG3	Non-Fossil Waste	New Jersey	0.3	Dropped - Onsite Unit
Bayville Central Facility	54569	COG4	Combustion Turbine	New Jersey	1.5	Dropped - Onsite Unit
Bayville Central Facility	54569	COG5	Combustion Turbine	New Jersey	1.5	Dropped - Onsite Unit
Bayville Central Facility	54569	COG6	Combustion Turbine	New Jersey	1.5	Dropped - Onsite Unit
Bayville Central Facility	54569	COG7	Combustion Turbine	New Jersey	1.5	Dropped - Onsite Unit
Bayville Central Facility	54569	CPV1	Solar PV	New Jersey	0.2	Dropped - Onsite Unit
Oakwood Hospital & Medical Center	50260	1 2M	Combustion Turbine	Michigan	2	Dropped - Onsite Unit
Oakwood Hospital & Medical Center	50260	2 2M	Combustion Turbine	Michigan	2	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Oakwood Hospital & Medical Center	50260	500A	Combustion Turbine	Michigan	0.5	Dropped - Onsite Unit
Oakwood Hospital & Medical Center	50260	500KW	Combustion Turbine	Michigan	0.5	Dropped - Onsite Unit
Elk Hills Cogen	55950	U1	Combustion Turbine	California	23.3	Dropped - Onsite Unit
Elk Hills Cogen	55950	U2	Combustion Turbine	California	23.3	Dropped - Onsite Unit
Oklahoma State University	54779	GEN1	O/G Steam	Oklahoma	1.6	Dropped - Onsite Unit
Oklahoma State University	54779	GEN2	O/G Steam	Oklahoma	1.6	Dropped - Onsite Unit
Oklahoma State University	54779	GEN4	O/G Steam	Oklahoma	5.2	Dropped - Onsite Unit
Plant No 1	50696	GEN1	Non-Fossil Waste	California	2.4	Dropped - Onsite Unit
Plant No 1	50696	GEN2	Non-Fossil Waste	California	2.4	Dropped - Onsite Unit
Plant No 1	50696	GEN3	Non-Fossil Waste	California	2.4	Dropped - Onsite Unit
Plant No 2	52099	GEN1	Non-Fossil Waste	California	2.7	Dropped - Onsite Unit
Plant No 2	52099	GEN2	Non-Fossil Waste	California	2.7	Dropped - Onsite Unit
Plant No 2	52099	GEN3	Non-Fossil Waste	California	2.7	Dropped - Onsite Unit
Plant No 2	52099	GEN4	Non-Fossil Waste	California	2.7	Dropped - Onsite Unit
Plant No 2	52099	GEN5	Non-Fossil Waste	California	2.7	Dropped - Onsite Unit
Plant No 2	52099	GEN6	Non-Fossil Waste	California	0.9	Dropped - Onsite Unit
PPG Powerhouse A	50487	A1	Non-Fossil Waste	Louisiana	7.5	Dropped - Onsite Unit
PPG Powerhouse A	50487	A2	Non-Fossil Waste	Louisiana	7.5	Dropped - Onsite Unit
PPG Powerhouse A	50487	A4	Non-Fossil Waste	Louisiana	7.5	Dropped - Onsite Unit
PPG Powerhouse A	50487	A7	Non-Fossil Waste	Louisiana	10	Dropped - Onsite Unit
PPG Powerhouse A	50487	A9	Non-Fossil Waste	Louisiana	20	Dropped - Onsite Unit
Alta Powerhouse	214	2	Hydro	California	1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cow Creek	229	1	Hydro	California	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cow Creek	229	2	Hydro	California	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Kilarc	253	1	Hydro	California	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Kilarc	253	2	Hydro	California	1.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Packaging Corp of America	50296	GEN1	Non-Fossil Waste	Tennessee	50	Dropped - Onsite Unit
Packaging Corp of America	50296	GEN2	Non-Fossil Waste	Tennessee	22.5	Dropped - Onsite Unit
Packaging of America Tomahawk Mill	50476	GEN1	Coal Steam	Wisconsin	5.4	Dropped - Onsite Unit
Packaging of America Tomahawk Mill	50476	GEN2	Coal Steam	Wisconsin	8.2	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Packaging of America Tomahawk Mill	50476	GEN3	Hydro	Wisconsin	0.5	Dropped - Onsite Unit
Packaging of America Tomahawk Mill	50476	GEN4	Hydro	Wisconsin	0.3	Dropped - Onsite Unit
Packaging of America Tomahawk Mill	50476	GEN5	Hydro	Wisconsin	0.3	Dropped - Onsite Unit
Municipal Cogen Plant	50674	GEN1	Combustion Turbine	California	0.6	Dropped - Onsite Unit
Municipal Cogen Plant	50674	GEN2	Combustion Turbine	California	0.6	Dropped - Onsite Unit
Panduit Tinley Park	54932	GEN1	Combustion Turbine	Illinois	0.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Panduit Tinley Park	54932	GEN2	Combustion Turbine	Illinois	0.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Park 500 Philip Morris USA	50275	TG2	Coal Steam	Virginia	2	Dropped - Onsite Unit
Park 500 Philip Morris USA	50275	TG3	Coal Steam	Virginia	10.5	Dropped - Onsite Unit
Caribou Generation Station	1513	1	O/G Steam	Maine	9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Flos Inn Diesel	1514	FID1	Combustion Turbine	Maine	1.4	Dropped - Onsite Unit
Flos Inn Diesel	1514	FID2	Combustion Turbine	Maine	1.4	Dropped - Onsite Unit
Flos Inn Diesel	1514	FID3	Combustion Turbine	Maine	1.4	Dropped - Onsite Unit
Standby Generation Plant	50310	1	Combustion Turbine	Florida	1.1	Dropped - Onsite Unit
Standby Generation Plant	50310	1SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	2	Combustion Turbine	Florida	1.1	Dropped - Onsite Unit
Standby Generation Plant	50310	2SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	3	Combustion Turbine	Florida	1.1	Dropped - Onsite Unit
Standby Generation Plant	50310	3SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	4SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	5SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	6SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	7SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Standby Generation Plant	50310	8SB	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Oilseed Plant	10515	GEN1	Coal Steam	Virginia	1.6	Dropped - Onsite Unit
Petersburg	91	3	Hydro	Alaska	1.6	Dropped - in Alaska or in Hawaii
Petersburg	91	IC1	Combustion Turbine	Alaska	1.7	Dropped - in Alaska or in Hawaii
Petersburg	91	IC2	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Petersburg	91	IC3	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Petersburg	91	IC4	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Petersburg	91	IC5	Combustion Turbine	Alaska	0.7	Dropped - in Alaska or in Hawaii
Petersburg	91	IC6	Combustion Turbine	Alaska	2.3	Dropped - in Alaska or in Hawaii
Petersburg	91	IC7	Combustion Turbine	Alaska	2.3	Dropped - in Alaska or in Hawaii
Phelps Dodge Refining	54628	2607	Combustion Turbine	Texas	2.6	Dropped - Onsite Unit
Phelps Dodge Refining	54628	2608	Combustion Turbine	Texas	2.6	Dropped - Onsite Unit
Phelps Dodge Refining	54628	3001	Combustion Turbine	Texas	3.2	Dropped - Onsite Unit
Phelps Dodge Refining	54628	3002	Combustion Turbine	Texas	3.2	Dropped - Onsite Unit
Phelps Dodge Refining	54628	3003	Combustion Turbine	Texas	3.2	Dropped - Onsite Unit
Pfizer Groton Plant	54236	GT-1	Combustion Turbine	Connecticut	9.5	Dropped - Onsite Unit
Pfizer Groton Plant	54236	TG 2	O/G Steam	Connecticut	2.5	Dropped - Onsite Unit
Pfizer Groton Plant	54236	TG 3	O/G Steam	Connecticut	9.4	Dropped - Onsite Unit
Pfizer Groton Plant	54236	TG 4	O/G Steam	Connecticut	10	Dropped - Onsite Unit
Pfizer Groton Plant	54236	TG5	O/G Steam	Connecticut	7.5	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	1	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	10	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	11	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	12	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	13	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	14	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	15	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	2	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	3	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	4	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	5	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	6	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	7	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	8	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Phelps Dodge Tyrone	54734	9	Combustion Turbine	New Mexico	2.9	Dropped - Onsite Unit
Bergen Generating Station	2398	3	Combustion Turbine	New Jersey	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Burlington Generating Station	2399	8	Combustion Turbine	New Jersey	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
PSEG Hudson Generating Station	2403	1	O/G Steam	New Jersey	355	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Kearny Generating Station	2404	10	Combustion Turbine	New Jersey	122	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Kearny Generating Station	2404	11	Combustion Turbine	New Jersey	128	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Kearny Generating Station	2404	9	Combustion Turbine	New Jersey	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Linden Generating Station	2406	3	Combustion Turbine	New Jersey	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Mercer Generating Station	2408	3	Combustion Turbine	New Jersey	115	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG National Park Generating Station	2409	1	Combustion Turbine	New Jersey	21	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Sewaren Generating Station	2411	6	Combustion Turbine	New Jersey	105	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Port Allen	50389	GEN1	Combustion Turbine	Louisiana	2.5	Dropped - Onsite Unit
Port Allen	50389	GEN2	Combustion Turbine	Louisiana	2.7	Dropped - Onsite Unit
PCS Nitrogen Fertilizer LP	50341	GEN2	Non-Fossil Waste	Louisiana	8	Dropped - Onsite Unit
Benning	603	15	O/G Steam	District of Columbia	275	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Benning	603	16	O/G Steam	District of Columbia	275	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E1	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E2	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E4	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E5	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E6	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E7	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	E8	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W10	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W11	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W12	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W13	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W14	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W15	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W16	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Buzzard Point	604	W9	Combustion Turbine	District of Columbia	16	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI1	Hydro	Montana	4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI2	Hydro	Montana	4	Dropped - PLANNED_RETIREMENT_YEAR <=2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Rainbow	2193	RAI3	Hydro	Montana	4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI4	Hydro	Montana	4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI5	Hydro	Montana	4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI6	Hydro	Montana	4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI7	Hydro	Montana	6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Rainbow	2193	RAI8	Hydro	Montana	6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Linde Wilmington	50148	GEN1	Combined Cycle	California	21	Dropped - Onsite Unit
Linde Wilmington	50148	GEN2	Combined Cycle	California	6	Dropped - Onsite Unit
Procter & Gamble Mehoopany Mill	50463	GEN1	Combustion Turbine	Pennsylvania	40	Dropped - Onsite Unit
Procter & Gamble Mehoopany Mill	50463	GEN2	O/G Steam	Pennsylvania	0.9	Dropped - Onsite Unit
Procter & Gamble Cincinnati Plant	50456	GEN1	Coal Steam	Ohio	11.7	Dropped - Onsite Unit
Bridgeport Station	568	2	O/G Steam	Connecticut	130.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Arapahoe	465	3	Coal Steam	Colorado	44	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cherokee	469	1	Coal Steam	Colorado	107	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Cherokee	469	2	Coal Steam	Colorado	106	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Zuni	478	2	O/G Steam	Colorado	65	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Edwardsport	1004	6	O/G Steam	Indiana	40	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Edwardsport	1004	7	Coal Steam	Indiana	45	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Edwardsport	1004	8	Coal Steam	Indiana	75	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Las Vegas	2447	1	Combustion Turbine	New Mexico	20	Dropped - PLANNED_RETIREMENT_YEAR <=2015
PSEG Salem Generating Station	2410	3	Combustion Turbine	New Jersey	38.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Purdue University	50240	GEN1	Coal Steam	Indiana	30.8	Dropped - Onsite Unit
Purdue University	50240	GEN2	Coal Steam	Indiana	7	Dropped - Onsite Unit
Purdue University	50240	GEN3	Combustion Turbine	Indiana	1.8	Dropped - Onsite Unit
Rayonier Jesup Mill	10560	GEN2	Biomass	Georgia	4.7	Dropped - Onsite Unit
Rayonier Jesup Mill	10560	GEN3	Biomass	Georgia	7	Dropped - Onsite Unit
Rayonier Jesup Mill	10560	GEN4	Biomass	Georgia	7	Dropped - Onsite Unit
Rayonier Jesup Mill	10560	GEN5	Non-Fossil Waste	Georgia	27.9	Dropped - Onsite Unit
Rayonier Jesup Mill	10560	GEN6	Non-Fossil Waste	Georgia	25.1	Dropped - Onsite Unit
Rayonier Fernandina Mill	10562	GEN3	Biomass	Florida	6.5	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Rayonier Fernandina Mill	10562	GEN4	Biomass	Florida	21	Dropped - Onsite Unit
NRG Energy San Diego	54337	1	Combustion Turbine	California	0.8	Dropped - Onsite Unit
NRG Energy San Diego	54337	2	Combustion Turbine	California	0.8	Dropped - Onsite Unit
Saint Mary of Nazareth Hospital	54886	GEN1	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Saint Mary of Nazareth Hospital	54886	GEN2	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Saint Mary of Nazareth Hospital	54886	GEN3	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Martinez Sulfuric Acid Regeneration Plt	52063	GEN1	Non-Fossil Waste	California	4	Dropped - Onsite Unit
Rice University	50054	GEN1	Combustion Turbine	Texas	3.1	Dropped - Onsite Unit
Rice University	50054	GEN2	Combustion Turbine	Texas	3.8	Dropped - Onsite Unit
Rhode Island Hospital	52024	GEN2	O/G Steam	Rhode Island	1.7	Dropped - Onsite Unit
Rhode Island Hospital	52024	GEN4	O/G Steam	Rhode Island	1.7	Dropped - Onsite Unit
Rhode Island Hospital	52024	NEW1	O/G Steam	Rhode Island	3	Dropped - Onsite Unit
Rhode Island Hospital	52024	NEW3	O/G Steam	Rhode Island	3	Dropped - Onsite Unit
Riverwood International Macon Mill	54464	1	Non-Fossil Waste	Georgia	9	Dropped - Onsite Unit
Riverwood International Macon Mill	54464	2	Non-Fossil Waste	Georgia	4.7	Dropped - Onsite Unit
Riverwood International Macon Mill	54464	3	Non-Fossil Waste	Georgia	4.7	Dropped - Onsite Unit
Riverwood International Macon Mill	54464	4	Non-Fossil Waste	Georgia	21.6	Dropped - Onsite Unit
Plant 31 Paper Mill	50028	GEN2	O/G Steam	Louisiana	6	Dropped - Onsite Unit
Plant 31 Paper Mill	50028	GEN3	O/G Steam	Louisiana	6	Dropped - Onsite Unit
Plant 31 Paper Mill	50028	GEN4	O/G Steam	Louisiana	6	Dropped - Onsite Unit
Plant 31 Paper Mill	50028	GEN5	O/G Steam	Louisiana	25	Dropped - Onsite Unit
Plant 31 Paper Mill	50028	GEN6	O/G Steam	Louisiana	20	Dropped - Onsite Unit
Rio Grande Valley Sugar Growers	54338	GENA	Biomass	Texas	2.5	Dropped - Onsite Unit
Rio Grande Valley Sugar Growers	54338	GENB	Biomass	Texas	2.5	Dropped - Onsite Unit
Rio Grande Valley Sugar Growers	54338	GENC	Biomass	Texas	2.5	Dropped - Onsite Unit
Somersset Plant	50406	GEN1	Non-Fossil Waste	Maine	50	Dropped - Onsite Unit
Somersset Plant	50406	GEN2	Non-Fossil Waste	Maine	65	Dropped - Onsite Unit
Robbins Lumber	50230	CAT	Combustion Turbine	Maine	1.8	Dropped - Onsite Unit
Robbins Lumber	50230	WEST	Biomass	Maine	1.1	Dropped - Onsite Unit
Norton Powerhouse	50041	GEN1	Coal Steam	Massachusetts	2.5	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Norton Powerhouse	50041	GEN2	Coal Steam	Massachusetts	3.1	Dropped - Onsite Unit
Saint Francis Hospital	50952	GEN1	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Saint Francis Hospital	50952	GEN2	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Salem Street Dept	56289	1	Combustion Turbine	Virginia	2	Dropped - Onsite Unit
Saint Agnes Medical Center	54800	9911	Combustion Turbine	California	2.7	Dropped - Onsite Unit
Saint Agnes Medical Center	54800	9929	Combustion Turbine	California	2.7	Dropped - Onsite Unit
Santa Maria Cogen Plant	10733	GEN1	Combustion Turbine	California	7	Dropped - Onsite Unit
San Antonio Community Hospital	50234	2074	Combustion Turbine	California	0.1	Dropped - Onsite Unit
San Antonio Community Hospital	50234	2075	Combustion Turbine	California	0.1	Dropped - Onsite Unit
San Antonio Community Hospital	50234	2076	Combustion Turbine	California	0.1	Dropped - Onsite Unit
W B Tuttle	3613	1	O/G Steam	Texas	60	Dropped - PLANNED_RETIREMENT_YEAR <=2015
W B Tuttle	3613	3	O/G Steam	Texas	100	Dropped - PLANNED_RETIREMENT_YEAR <=2015
W B Tuttle	3613	4	O/G Steam	Texas	154	Dropped - PLANNED_RETIREMENT_YEAR <=2015
San Diego State University	50061	GEN2	Combined Cycle	California	4.6	Dropped - Onsite Unit
San Diego State University	50061	GEN3	Combined Cycle	California	4.6	Dropped - Onsite Unit
San Diego State University	50061	GEN4	Combined Cycle	California	4.1	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	GEN3	Biomass	Minnesota	14.8	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	GEN4	Biomass	Minnesota	20.5	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	GEN5	Non-Fossil Waste	Minnesota	14	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	HGN1	Hydro	Minnesota	1.6	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	HGN5	Hydro	Minnesota	0.5	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	HGN6	Hydro	Minnesota	0.5	Dropped - Onsite Unit
Sappi Cloquet Mill	50639	HGN7	Hydro	Minnesota	1	Dropped - Onsite Unit
SJ/SC WPCP	56080	E2	Non-Fossil Waste	California	0.8	Dropped - Onsite Unit
SJ/SC WPCP	56080	E3	Non-Fossil Waste	California	0.8	Dropped - Onsite Unit
SJ/SC WPCP	56080	E5	Non-Fossil Waste	California	1.8	Dropped - Onsite Unit
SJ/SC WPCP	56080	EG1	Combustion Turbine	California	2.8	Dropped - Onsite Unit
SJ/SC WPCP	56080	EG2	Combustion Turbine	California	2.8	Dropped - Onsite Unit
SJ/SC WPCP	56080	EG3	Combustion Turbine	California	2.8	Dropped - Onsite Unit
Schering Cogen Facility	54970	GEN1	Combustion Turbine	New Jersey	3.5	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Schering Cogen Facility	54970	GEN2	Combustion Turbine	New Jersey	3.5	Dropped - Onsite Unit
Seward	92	3	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Seward	92	4	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Seward	92	5	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Seward	92	6	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Seward	92	N1	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Seward	92	N2	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Simplot Phosphates	54472	GEN1	Non-Fossil Waste	Wyoming	11.5	Dropped - Onsite Unit
Westhollow Technology Center	54330	1	Combustion Turbine	Texas	3.7	Dropped - Onsite Unit
Shepherd Center	54813	1	Combustion Turbine	Georgia	0.6	Dropped - Onsite Unit
Shepherd Center	54813	2	Combustion Turbine	Georgia	0.6	Dropped - Onsite Unit
Shepherd Center	54813	3	Combustion Turbine	Georgia	0.2	Dropped - Onsite Unit
Shepherd Center	54813	4	Combustion Turbine	Georgia	0.3	Dropped - Onsite Unit
Shepherd Center	54813	5	Combustion Turbine	Georgia	0.6	Dropped - Onsite Unit
Shepherd Center	54813	6	Combustion Turbine	Georgia	0.6	Dropped - Onsite Unit
Sherman Hospital	50909	1	Combustion Turbine	Illinois	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Sherman Hospital	50909	2	Combustion Turbine	Illinois	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Shell Deer Park	50304	GEN1	Non-Fossil Waste	Texas	45	Dropped - Onsite Unit
Shell Deer Park	50304	GEN2	Non-Fossil Waste	Texas	45	Dropped - Onsite Unit
Shell Deer Park	50304	GEN4	Fossil Waste	Texas	70	Dropped - Onsite Unit
Shell Deer Park	50304	GEN5	Fossil Waste	Texas	70	Dropped - Onsite Unit
Simplot Leasing Don Plant	50274	GEN1	Non-Fossil Waste	Idaho	14.8	Dropped - Onsite Unit
Blue Lake	93	1	Hydro	Alaska	3	Dropped - in Alaska or in Hawaii
Blue Lake	93	2	Hydro	Alaska	3	Dropped - in Alaska or in Hawaii
Green Lake	313	1	Hydro	Alaska	9.3	Dropped - in Alaska or in Hawaii
Green Lake	313	2	Hydro	Alaska	9.3	Dropped - in Alaska or in Hawaii
Jarvis Street	6801	1	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Jarvis Street	6801	2	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Jarvis Street	6801	3	Combustion Turbine	Alaska	2.8	Dropped - in Alaska or in Hawaii
Jarvis Street	6801	4	Combustion Turbine	Alaska	4	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Sloss Industries Corp	50359	10	Fossil Waste	Alabama	8.5	Dropped - Onsite Unit
Sloss Industries Corp	50359	9	Fossil Waste	Alabama	7.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN1	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN2	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN3	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN4	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN5	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN6	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN7	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN8	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GEN9	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN10	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN11	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN12	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN13	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN14	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN15	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN16	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN17	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN18	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
Smithfield Packing Bladen	54823	GN19	Combustion Turbine	North Carolina	1.5	Dropped - Onsite Unit
West Point Mill	10017	GEN8	Non-Fossil Waste	Virginia	5	Dropped - Onsite Unit
West Point Mill	10017	GEN9	Non-Fossil Waste	Virginia	10	Dropped - Onsite Unit
West Point Mill	10017	GN10	Non-Fossil Waste	Virginia	25	Dropped - Onsite Unit
West Point Mill	10017	GN11	Non-Fossil Waste	Virginia	15	Dropped - Onsite Unit
West Point Mill	10017	GN12	Non-Fossil Waste	Virginia	46	Dropped - Onsite Unit
Power Station 4	52132	GEN1	Combined Cycle	Texas	69	Dropped - Onsite Unit
Power Station 4	52132	GEN2	Combined Cycle	Texas	69	Dropped - Onsite Unit
Power Station 4	52132	GEN3	Combined Cycle	Texas	34	Dropped - Onsite Unit
Aliso Water Management Agency	10820	GEN1	Non-Fossil Waste	California	0.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Aliso Water Management Agency	10820	GEN2	Non-Fossil Waste	California	0.4	Dropped - Onsite Unit
Aliso Water Management Agency	10820	GEN3	Non-Fossil Waste	California	0.4	Dropped - Onsite Unit
Southern Minnesota Beet Sugar	54533	1	Coal Steam	Minnesota	7.5	Dropped - Onsite Unit
Mohave	2341	1	Coal Steam	Nevada	790	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Mohave	2341	2	Coal Steam	Nevada	790	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dublin Mill	54004	GEN1	Coal Steam	Georgia	44	Dropped - Onsite Unit
Dublin Mill	54004	GEN2	Combustion Turbine	Georgia	40	Dropped - Onsite Unit
Spartanburg Water System	54675	DI1	Combustion Turbine	South Carolina	1.6	Dropped - Onsite Unit
Spartanburg Water System	54675	HG1	Hydro	South Carolina	0.5	Dropped - Onsite Unit
Spartanburg Water System	54675	HG2	Hydro	South Carolina	0.5	Dropped - Onsite Unit
Solano County Cogen Plant	50985	3163	Combustion Turbine	California	1	Dropped - Onsite Unit
Solano County Cogen Plant	50985	3164	Combustion Turbine	California	0.4	Dropped - Onsite Unit
Solano County Cogen Plant	50985	3165	Combustion Turbine	California	1.4	Dropped - Onsite Unit
Riverview	3487	6	Combustion Turbine	Texas	22	Dropped - Unit dismantled and sold per comment
CenturyLink Regional HQ	54882	GEN1	Combustion Turbine	North Carolina	0.6	Dropped - Onsite Unit
CenturyLink Regional HQ	54882	GEN2	Combustion Turbine	North Carolina	0.6	Dropped - Onsite Unit
St Josephs Hospital	54534	1	Combustion Turbine	Florida	1.6	Dropped - Onsite Unit
Saint Marys Hospital Power Plant	54262	1	Combined Cycle	Minnesota	4.5	Dropped - Onsite Unit
Saint Marys Hospital Power Plant	54262	4	Combined Cycle	Minnesota	2.7	Dropped - Onsite Unit
Saint Marys Hospital Power Plant	54262	5	Combustion Turbine	Minnesota	2.5	Dropped - Onsite Unit
Saint Marys Hospital Power Plant	54262	6	Combustion Turbine	Minnesota	2.7	Dropped - Onsite Unit
St Vincents Medical Center	54535	6805	Combustion Turbine	Florida	1.3	Dropped - Onsite Unit
Central Power Plant	50621	GEN3	O/G Steam	Rhode Island	2	Dropped - Onsite Unit
Central Power Plant	50621	GEN4	O/G Steam	Rhode Island	2	Dropped - Onsite Unit
Central Power Plant	50621	GEN5	Combustion Turbine	Rhode Island	2.8	Dropped - Onsite Unit
Central Power Plant	50621	GEN6	Combustion Turbine	Rhode Island	2.8	Dropped - Onsite Unit
State Farm Insurance Support Center East	55274	2A	Combustion Turbine	Georgia	1.8	Dropped - Onsite Unit
State Farm Insurance Support Center East	55274	2B	Combustion Turbine	Georgia	1.8	Dropped - Onsite Unit
State Farm Insurance Support Center East	55274	3A	Combustion Turbine	Georgia	1.8	Dropped - Onsite Unit
State Farm Insurance Support Center East	55274	3B	Combustion Turbine	Georgia	1.8	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
State Farm Insurance Support Center East	55274	4A	Combustion Turbine	Georgia	1.8	Dropped - Onsite Unit
State Farm Insurance Support Center East	55274	4B	Combustion Turbine	Georgia	1.8	Dropped - Onsite Unit
Starrett City Cogen Facility	50743	GEN1	O/G Steam	New York	5.5	Dropped - Onsite Unit
Starrett City Cogen Facility	50743	GEN2	O/G Steam	New York	5.5	Dropped - Onsite Unit
Starrett City Cogen Facility	50743	GEN3	Combustion Turbine	New York	2	Dropped - Onsite Unit
Starrett City Cogen Facility	50743	GEN4	Combustion Turbine	New York	2	Dropped - Onsite Unit
Starrett City Cogen Facility	50743	GEN5	Combustion Turbine	New York	2	Dropped - Onsite Unit
Capitol Heat and Power	54406	1	O/G Steam	Wisconsin	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Capitol Heat and Power	54406	2	O/G Steam	Wisconsin	1	Dropped - PLANNED_RETIREMENT_YEAR <=2015
State Line Energy	981	3	Coal Steam	Indiana	197	Dropped - PLANNED_RETIREMENT_YEAR <=2015
State Line Energy	981	3A	Coal Steam	Indiana		Dropped - PLANNED_RETIREMENT_YEAR <=2015
State Line Energy	981	4	Coal Steam	Indiana	318	Dropped - PLANNED_RETIREMENT_YEAR <=2015
State Line Energy	981	4A	Coal Steam	Indiana		Dropped - PLANNED_RETIREMENT_YEAR <=2015
State Farm Insur Support Center Central	55390	2A	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
State Farm Insur Support Center Central	55390	2B	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
State Farm Insur Support Center Central	55390	3A	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
State Farm Insur Support Center Central	55390	3B	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
State Farm Insur Support Center Central	55390	4A	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
State Farm Insur Support Center Central	55390	4B	Combustion Turbine	Texas	1.8	Dropped - Onsite Unit
Smithfield Packing Wilson	56035	1	Combustion Turbine	North Carolina	1.3	Dropped - Onsite Unit
Smithfield Packing Wilson	56035	2	Combustion Turbine	North Carolina	1.3	Dropped - Onsite Unit
Stone Container Uncasville	50801	GEN1	Non-Fossil Waste	Connecticut	1.3	Dropped - Onsite Unit
Stone Container Hodge	50810	NO 4	O/G Steam	Louisiana	3	Dropped - Onsite Unit
Stone Container Hodge	50810	NO 6	O/G Steam	Louisiana	5	Dropped - Onsite Unit
Stone Container Hodge	50810	NO 7	O/G Steam	Louisiana	15.6	Dropped - Onsite Unit
Stone Container Hodge	50810	NO 8	O/G Steam	Louisiana	27.5	Dropped - Onsite Unit
Stone Container Hodge	50810	NO 9	O/G Steam	Louisiana	23.3	Dropped - Onsite Unit
Stone Container Panama City Mill	50807	GEN3	Non-Fossil Waste	Florida	4	Dropped - Onsite Unit
Stone Container Panama City Mill	50807	GEN4	Non-Fossil Waste	Florida	10	Dropped - Onsite Unit
Stone Container Panama City Mill	50807	GEN6	Biomass	Florida	21.8	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Stone Container Coshocton Mill	50811	GEN1	Biomass	Ohio	12	Dropped - Onsite Unit
Sun Trust Plaza	54845	EG-1	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Sun Trust Plaza	54845	EG-2	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Sunoco Toledo Ref Power Recovery Train	50965	GEN1	Fossil Waste	Ohio	6	Dropped - Onsite Unit
Philadelphia Refinery	52106	GEN1	Fossil Waste	Pennsylvania	5.5	Dropped - Onsite Unit
Philadelphia Refinery	52106	GEN2	Fossil Waste	Pennsylvania	6.7	Dropped - Onsite Unit
Philadelphia Refinery	52106	GEN3	Fossil Waste	Pennsylvania	7.3	Dropped - Onsite Unit
Arvah B Hopkins	688	GT1	Combustion Turbine	Florida	12	Dropped - PLANNED_RETIREMENT_YEAR <=2015
S O Purdom	689	7	O/G Steam	Florida	48	Dropped - PLANNED_RETIREMENT_YEAR <=2015
S O Purdom	689	GT1	Combustion Turbine	Florida	10	Dropped - PLANNED_RETIREMENT_YEAR <=2015
S O Purdom	689	GT2	Combustion Turbine	Florida	10	Dropped - PLANNED_RETIREMENT_YEAR <=2015
CNN Center	54323	D4_1	Combustion Turbine	Georgia	1.5	Dropped - Onsite Unit
CNN Center	54323	D4_2	Combustion Turbine	Georgia	2	Dropped - Onsite Unit
CNN Center	54323	D4_3	Combustion Turbine	Georgia	2	Dropped - Onsite Unit
CNN Center	54323	D5_1	Combustion Turbine	Georgia	2	Dropped - Onsite Unit
CNN Center	54323	D5_2	Combustion Turbine	Georgia	2	Dropped - Onsite Unit
CNN Center	54323	D5_3	Combustion Turbine	Georgia	2	Dropped - Onsite Unit
CNN Center	54323	DK2	Combustion Turbine	Georgia	1.3	Dropped - Onsite Unit
Howard F Curren Advanced Wastewater Plant	54347	1	Non-Fossil Waste	Florida	0.5	Dropped - Onsite Unit
Howard F Curren Advanced Wastewater Plant	54347	2	Non-Fossil Waste	Florida	0.5	Dropped - Onsite Unit
Howard F Curren Advanced Wastewater Plant	54347	3	Non-Fossil Waste	Florida	0.5	Dropped - Onsite Unit
Howard F Curren Advanced Wastewater Plant	54347	4	Non-Fossil Waste	Florida	0.5	Dropped - Onsite Unit
Howard F Curren Advanced Wastewater Plant	54347	5	Non-Fossil Waste	Florida	0.5	Dropped - Onsite Unit
Tesoro Alaska Petroleum	52184	GEN1	Combustion Turbine	Alaska	3.8	Dropped - Onsite Unit
Tesoro Alaska Petroleum	52184	GEN2	Combustion Turbine	Alaska	3.7	Dropped - Onsite Unit
Widows Creek	50	1	Coal Steam	Alabama	111	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Widows Creek	50	2	Coal Steam	Alabama	111	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Widows Creek	50	3	Coal Steam	Alabama	111	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Widows Creek	50	4	Coal Steam	Alabama	111	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Widows Creek	50	5	Coal Steam	Alabama	111	Dropped - PLANNED_RETIREMENT_YEAR <=2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Widows Creek	50	6	Coal Steam	Alabama	111	Dropped - PLANNED_RETIREMENT_YEAR <=2015
John Sevier	3405	1	Coal Steam	Tennessee	176	Dropped - PLANNED_RETIREMENT_YEAR <=2015
John Sevier	3405	2	Coal Steam	Tennessee	176	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Johnsonville	3406	10	Coal Steam	Tennessee	141	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Johnsonville	3406	5	Coal Steam	Tennessee	107	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Johnsonville	3406	6	Coal Steam	Tennessee	107	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Johnsonville	3406	7	Coal Steam	Tennessee	141	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Johnsonville	3406	8	Coal Steam	Tennessee	141	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Johnsonville	3406	9	Coal Steam	Tennessee	141	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Mandan Refinery	52133	GEN1	Fossil Waste	North Dakota	2.8	Dropped - Onsite Unit
Mandan Refinery	52133	GEN2	Fossil Waste	North Dakota	2.8	Dropped - Onsite Unit
Mandan Refinery	52133	GEN3	Fossil Waste	North Dakota	2.8	Dropped - Onsite Unit
Tesoro Hawaii	10093	GEN1	Combustion Turbine	Hawaii	20	Dropped - in Alaska or in Hawaii
Thiele Kaolin Sandersville	54841	G1	Combustion Turbine	Georgia	1.1	Dropped - Onsite Unit
Thiele Kaolin Sandersville	54841	G2	Combustion Turbine	Georgia	1.1	Dropped - Onsite Unit
Thiele Kaolin Reedy Creek	54849	G1	Combustion Turbine	Georgia	1.1	Dropped - Onsite Unit
Thiele Kaolin Reedy Creek	54849	G2	Combustion Turbine	Georgia	1.1	Dropped - Onsite Unit
Thornwood High School	55004	1	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Thornwood High School	55004	2	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Thornridge High School	55005	1	Combustion Turbine	Illinois	0.5	Dropped - Onsite Unit
Thornridge High School	55005	2	Combustion Turbine	Illinois	0.5	Dropped - Onsite Unit
Angoon	7462	1A	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Angoon	7462	2A	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Angoon	7462	3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Hoonah	7463	1	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Hoonah	7463	2A	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Hoonah	7463	3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Kake	7464	1	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Kake	7464	2	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Kake	7464	3A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Chilkat Valley	7467	1	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Chilkat Valley	7467	2A	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
West Group Data Center	54294	1	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center	54294	2	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center	54294	3	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center	54294	4	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center F	56247	1	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center F	56247	2	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center F	56247	3	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
West Group Data Center F	56247	4	Combustion Turbine	Minnesota	0.6	Dropped - Onsite Unit
Tuscola Station	55245	TG1	Coal Steam	Illinois	3.8	Dropped - Onsite Unit
Tuscola Station	55245	TG2	Coal Steam	Illinois	4.9	Dropped - Onsite Unit
Tuscola Station	55245	TG3	Coal Steam	Illinois	4.8	Dropped - Onsite Unit
Inner Harbor East Heating	56050	1	Combustion Turbine	Maryland	2.1	Dropped - Onsite Unit
Fort Greely Power Plant	54834	EN-4	Combustion Turbine	Alaska	1.2	Dropped - Onsite Unit
Fort Greely Power Plant	54834	EN-5	Combustion Turbine	Alaska	1.2	Dropped - Onsite Unit
Fort Greely Power Plant	54834	EN-6	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
Fort Greely Power Plant	54834	EN-7	Combustion Turbine	Alaska	2.5	Dropped - Onsite Unit
US Gypsum Oakfield	50203	GEN1	Combustion Turbine	New York	4.9	Dropped - Onsite Unit
University of Medicine Dentistry NJ	50411	GEN1	Combustion Turbine	New Jersey	3.4	Dropped - Onsite Unit
University of Medicine Dentistry NJ	50411	GEN2	Combustion Turbine	New Jersey	3.4	Dropped - Onsite Unit
University of Medicine Dentistry NJ	50411	GEN3	Combustion Turbine	New Jersey	3.4	Dropped - Onsite Unit
Fairfield Works	50730	GEN1	Fossil Waste	Alabama	20	Dropped - Onsite Unit
Fairfield Works	50730	GEN2	Fossil Waste	Alabama	20	Dropped - Onsite Unit
Fairfield Works	50730	GEN3	Fossil Waste	Alabama	20	Dropped - Onsite Unit
Fairfield Works	50730	GEN4	Fossil Waste	Alabama	20	Dropped - Onsite Unit
Union Carbide South Charleston	50151	GEN8	Coal Steam	West Virginia	5.6	Dropped - Onsite Unit
Dutch Harbor	7502	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	10	Combustion Turbine	Alaska	4.4	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	11	Combustion Turbine	Alaska	4.4	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Dutch Harbor	7502	15	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	3	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	4	Combustion Turbine	Alaska	0.7	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	5	Combustion Turbine	Alaska	0.5	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	6	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	8	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Dutch Harbor	7502	9	Combustion Turbine	Alaska	1	Dropped - in Alaska or in Hawaii
Unalaska Power Module	7503	7	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
University of Alaska Fairbanks	50711	GEN1	Coal Steam	Alaska	0.5	Dropped - Onsite Unit
University of Alaska Fairbanks	50711	GEN2	Coal Steam	Alaska	0.5	Dropped - Onsite Unit
University of Alaska Fairbanks	50711	GEN3	Coal Steam	Alaska	8.1	Dropped - Onsite Unit
University of Alaska Fairbanks	50711	GEN4	Combustion Turbine	Alaska	9.6	Dropped - Onsite Unit
Clairton Works	50729	GEN1	Fossil Waste	Pennsylvania	16	Dropped - Onsite Unit
Clairton Works	50729	GEN3	Fossil Waste	Pennsylvania	6	Dropped - Onsite Unit
Mon Valley Works	50732	GEN1	Fossil Waste	Pennsylvania	28	Dropped - Onsite Unit
Mon Valley Works	50732	GEN2	Fossil Waste	Pennsylvania	28	Dropped - Onsite Unit
Mon Valley Works	50732	GEN3	Fossil Waste	Pennsylvania	1.9	Dropped - Onsite Unit
Gary Works	50733	STG1	Fossil Waste	Indiana	161	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	CT1	Combustion Turbine	Illinois	6.4	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	CT2	Combustion Turbine	Illinois	6.4	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	CT3	Combustion Turbine	Illinois	6.4	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	GEN1	Combustion Turbine	Illinois	6.3	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	GEN2	Combustion Turbine	Illinois	6.3	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	GEN3	Combustion Turbine	Illinois	3.7	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	GEN4	Combustion Turbine	Illinois	3.7	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	RE1	Combustion Turbine	Illinois	5.5	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	RE2	Combustion Turbine	Illinois	5.5	Dropped - Onsite Unit
University of Illinois Cogen Facility	54044	RE3	Combustion Turbine	Illinois	5.5	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T1	O/G Steam	Illinois	3	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
University of Illinois Abbott Power Plt	54780	T10	Coal Steam	Illinois	12.5	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T11	Coal Steam	Illinois	12.5	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T12	Coal Steam	Illinois	7	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T2	O/G Steam	Illinois	3	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T3	O/G Steam	Illinois	3	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T4	O/G Steam	Illinois	3	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T6	Coal Steam	Illinois	7.5	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T7	Coal Steam	Illinois	7.5	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T8	Combustion Turbine	Illinois	13	Dropped - Onsite Unit
University of Illinois Abbott Power Plt	54780	T9	Combustion Turbine	Illinois	13	Dropped - Onsite Unit
University of Oklahoma	50307	GEN1	O/G Steam	Oklahoma	7.5	Dropped - Onsite Unit
University of Oklahoma	50307	GEN2	O/G Steam	Oklahoma	2.5	Dropped - Onsite Unit
University of Oklahoma	50307	GEN3	O/G Steam	Oklahoma	2.5	Dropped - Onsite Unit
University of Oklahoma	50307	GEN4	O/G Steam	Oklahoma	4.3	Dropped - Onsite Unit
University of Oklahoma	50307	GEN5	Combustion Turbine	Oklahoma	1.8	Dropped - Onsite Unit
Hal C Weaver Power Plant	50118	GEN10	Combined Cycle	Texas	33	Dropped - Onsite Unit
Hal C Weaver Power Plant	50118	GEN4	Combined Cycle	Texas	7.6	Dropped - Onsite Unit
Hal C Weaver Power Plant	50118	GEN5	Combined Cycle	Texas	6	Dropped - Onsite Unit
Hal C Weaver Power Plant	50118	GEN7	Combined Cycle	Texas	27.6	Dropped - Onsite Unit
Hal C Weaver Power Plant	50118	GEN8	Combined Cycle	Texas	46.5	Dropped - Onsite Unit
Hal C Weaver Power Plant	50118	GEN9	Combined Cycle	Texas	26.1	Dropped - Onsite Unit
Univ of NC Chapel Hill Cogen Facility	54276	TG3	Coal Steam	North Carolina	28.7	Dropped - Onsite Unit
Honolulu	764	H8	O/G Steam	Hawaii	48.6	Dropped - in Alaska or in Hawaii
Honolulu	764	H9	O/G Steam	Hawaii	51.7	Dropped - in Alaska or in Hawaii
Kahe	765	K1	O/G Steam	Hawaii	77.9	Dropped - in Alaska or in Hawaii
Kahe	765	K2	O/G Steam	Hawaii	78.1	Dropped - in Alaska or in Hawaii
Kahe	765	K3	O/G Steam	Hawaii	82.1	Dropped - in Alaska or in Hawaii
Kahe	765	K4	O/G Steam	Hawaii	87.2	Dropped - in Alaska or in Hawaii
Kahe	765	K5	O/G Steam	Hawaii	128.1	Dropped - in Alaska or in Hawaii
Kahe	765	K6	O/G Steam	Hawaii	128.7	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Waiau	766	W10	Combustion Turbine	Hawaii	51.2	Dropped - in Alaska or in Hawaii
Waiau	766	W3	O/G Steam	Hawaii	47.2	Dropped - in Alaska or in Hawaii
Waiau	766	W4	O/G Steam	Hawaii	47.7	Dropped - in Alaska or in Hawaii
Waiau	766	W5	O/G Steam	Hawaii	51.9	Dropped - in Alaska or in Hawaii
Waiau	766	W6	O/G Steam	Hawaii	51.8	Dropped - in Alaska or in Hawaii
Waiau	766	W7	O/G Steam	Hawaii	77.8	Dropped - in Alaska or in Hawaii
Waiau	766	W8	O/G Steam	Hawaii	77.8	Dropped - in Alaska or in Hawaii
Waiau	766	W9	Combustion Turbine	Hawaii	51.2	Dropped - in Alaska or in Hawaii
Campbell Industrial Park	56329	CIP1	Biomass	Hawaii	113	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	CAT1	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	CAT2	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	GEN1	Combustion Turbine	Alaska	2.2	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	GEN2	Combustion Turbine	Alaska	2.3	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	GEN3	Combustion Turbine	Alaska	2.3	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	GEN4	Combustion Turbine	Alaska	2.2	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	GEN5	Combustion Turbine	Alaska	2.3	Dropped - in Alaska or in Hawaii
Unisea G 2	54422	GEN6	Combustion Turbine	Alaska	2.2	Dropped - in Alaska or in Hawaii
Seldovia	6283	5	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Seldovia	6283	6	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Bradley Lake	7367	1	Hydro	Alaska	63	Dropped - in Alaska or in Hawaii
Bradley Lake	7367	2	Hydro	Alaska	63	Dropped - in Alaska or in Hawaii
Nikiski Co-Generation	55966	GT1	Combustion Turbine	Alaska	37.9	Dropped - in Alaska or in Hawaii
University of Washington Power Plant	54809	DG3	Combustion Turbine	Washington	2	Dropped - Onsite Unit
University of Washington Power Plant	54809	DG4	Combustion Turbine	Washington	2	Dropped - Onsite Unit
University of Washington Power Plant	54809	DG5	Combustion Turbine	Washington	2	Dropped - Onsite Unit
University of Washington Power Plant	54809	DG6	Combustion Turbine	Washington	2	Dropped - Onsite Unit
University of Washington Power Plant	54809	DG7	Combustion Turbine	Washington	2	Dropped - Onsite Unit
University of Washington Power Plant	54809	TG2	O/G Steam	Washington	1	Dropped - Onsite Unit
Valero Refinery Cogeneration Unit 1	55851	GT 1	Combustion Turbine	California	45.4	Dropped - Onsite Unit
Valero Refinery Corpus Christi East	10203	GEN1	Combustion Turbine	Texas	17	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Valero Refinery Corpus Christi East	10203	GEN2	Combustion Turbine	Texas	17	Dropped - Onsite Unit
Valero Refinery Corpus Christi West	50121	PRU	Non-Fossil Waste	Texas	12	Dropped - Onsite Unit
Valero Refinery Corpus Christi West	50121	TG1	Fossil Waste	Texas	26.6	Dropped - Onsite Unit
Valero Refinery Corpus Christi West	50121	TG2	Fossil Waste	Texas	26.6	Dropped - Onsite Unit
Paulsboro Refinery	50628	GEN1	Combined Cycle	New Jersey	20.2	Dropped - Onsite Unit
Paulsboro Refinery	50628	GEN2	Fossil Waste	New Jersey	11.7	Dropped - Onsite Unit
Paulsboro Refinery	50628	GEN3	Fossil Waste	New Jersey	11.7	Dropped - Onsite Unit
Vanderbilt University Power Plant	52048	GEN1	Coal Steam	Tennessee	6.5	Dropped - Onsite Unit
Vanderbilt University Power Plant	52048	GEN2	Coal Steam	Tennessee	4.5	Dropped - Onsite Unit
Vanderbilt University Power Plant	52048	GT1	Combustion Turbine	Tennessee	4	Dropped - Onsite Unit
Vanderbilt University Power Plant	52048	GT2	Combustion Turbine	Tennessee	4	Dropped - Onsite Unit
Valdosta Water Treatment Plant	54839	GEN1	Combustion Turbine	Georgia	1.7	Dropped - Onsite Unit
Valdosta Water Treatment Plant	54839	GEN2	Combustion Turbine	Georgia	1.7	Dropped - Onsite Unit
Warm Springs Forest Products	50426	GEN1	Biomass	Oregon	2.6	Dropped - Onsite Unit
Warm Springs Forest Products	50426	GEN2	Biomass	Oregon	2.6	Dropped - Onsite Unit
Warm Springs Forest Products	50426	GEN3	Biomass	Oregon	2.6	Dropped - Onsite Unit
Wells Manufacturing Dura Bar Division	54540	1A	Combustion Turbine	Illinois	0.9	Dropped - Onsite Unit
Wells Manufacturing Dura Bar Division	54540	1B	Combustion Turbine	Illinois	0.9	Dropped - Onsite Unit
Wells Manufacturing Dura Bar Division	54540	2A	Combustion Turbine	Illinois	0.9	Dropped - Onsite Unit
Wells Manufacturing Dura Bar Division	54540	2B	Combustion Turbine	Illinois	0.9	Dropped - Onsite Unit
Wells Manufacturing Dura Bar Division	54540	3A	Combustion Turbine	Illinois	0.9	Dropped - Onsite Unit
Wells Manufacturing Dura Bar Division	54540	3B	Combustion Turbine	Illinois	0.9	Dropped - Onsite Unit
Wellesley College Central Utility Plant	54937	1118	Combustion Turbine	Massachusetts	1.2	Dropped - Onsite Unit
Wellesley College Central Utility Plant	54937	1119	Combustion Turbine	Massachusetts	1.2	Dropped - Onsite Unit
Wellesley College Central Utility Plant	54937	1120	Combustion Turbine	Massachusetts	1.2	Dropped - Onsite Unit
Wellesley College Central Utility Plant	54937	1121	Combustion Turbine	Massachusetts	1.3	Dropped - Onsite Unit
Wellesley College Central Utility Plant	54937	8187	Combustion Turbine	Massachusetts	1.9	Dropped - Onsite Unit
Covington Facility	50900	GEN1	Coal Steam	Virginia	10.5	Dropped - Onsite Unit
Covington Facility	50900	GEN2	Coal Steam	Virginia	10.5	Dropped - Onsite Unit
Covington Facility	50900	GEN3	Coal Steam	Virginia	10.5	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Covington Facility	50900	GEN4	Coal Steam	Virginia	32.5	Dropped - Onsite Unit
Covington Facility	50900	GEN5	Coal Steam	Virginia	32.5	Dropped - Onsite Unit
Weyerhaeuser New Bern NC	50188	TG1	Non-Fossil Waste	North Carolina	29.7	Dropped - Onsite Unit
Westward Seafoods	54305	2	Combustion Turbine	Alaska	2.2	Dropped - Onsite Unit
Westward Seafoods	54305	3	Combustion Turbine	Alaska	2.2	Dropped - Onsite Unit
Westward Seafoods	54305	4	Combustion Turbine	Alaska	2.2	Dropped - Onsite Unit
Flint River Operations	50465	GEN1	Non-Fossil Waste	Georgia	42	Dropped - Onsite Unit
Weyerhaeuser Cosmopolis	50185	TG1	Biomass	Washington	8.5	Dropped - Onsite Unit
Weyerhaeuser Cosmopolis	50185	TG2	Biomass	Washington	8.5	Dropped - Onsite Unit
Weyerhaeuser Longview WA	50187	TG1	Non-Fossil Waste	Washington	4.7	Dropped - Onsite Unit
Weyerhaeuser Longview WA	50187	TG2	Non-Fossil Waste	Washington	4.7	Dropped - Onsite Unit
Weyerhaeuser Longview WA	50187	TG4	Non-Fossil Waste	Washington	18	Dropped - Onsite Unit
Weyerhaeuser Longview WA	50187	TG5	Biomass	Washington	29.2	Dropped - Onsite Unit
Suwannee River Chemical Complex	50473	SRC	Non-Fossil Waste	Florida	27.3	Dropped - Onsite Unit
Swift Creek Chemical Complex	50474	SCC	Non-Fossil Waste	Florida	15.9	Dropped - Onsite Unit
William Beaumont Hospital	50937	GENA	Combustion Turbine	Michigan	1.9	Dropped - Onsite Unit
William Beaumont Hospital	50937	GENB	Combustion Turbine	Michigan	1.9	Dropped - Onsite Unit
University of Texas at San Antonio	54606	GEN1	Combustion Turbine	Texas	3.3	Dropped - Onsite Unit
Wrangell	95	11	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Wrangell	95	12	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Wrangell	95	13	Combustion Turbine	Alaska	2	Dropped - in Alaska or in Hawaii
Wrangell	95	9	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
YKK USA Chestney	54566	BWP1	Combustion Turbine	Georgia	0.5	Dropped - Onsite Unit
YKK USA Chestney	54566	GEN1	Combustion Turbine	Georgia	1.5	Dropped - Onsite Unit
YKK USA Chestney	54566	GEN2	Combustion Turbine	Georgia	1.5	Dropped - Onsite Unit
YKK USA Chestney	54566	GEN3	Combustion Turbine	Georgia	1.7	Dropped - Onsite Unit
YKK USA Chestney	54566	SLD1	Combustion Turbine	Georgia	0.5	Dropped - Onsite Unit
University of Northern Iowa	50088	GEN1	Coal Steam	Iowa	7.5	Dropped - Onsite Unit
191 Peachtree Tower	54818	GEN1	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit
191 Peachtree Tower	54818	GEN2	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
University of Tennessee Steam Plant	55036	GEN1	Combustion Turbine	Tennessee	3.7	Dropped - Onsite Unit
Pratt & Whitney	54605	FT-8	Combustion Turbine	Connecticut	27	Dropped - Onsite Unit
University of Texas at Dallas	54607	GEN1	Combustion Turbine	Texas	3.5	Dropped - Onsite Unit
Mooseheart Power House	50337	GEN1	Combustion Turbine	Illinois	0.5	Dropped - Onsite Unit
Mooseheart Power House	50337	GEN2	Combustion Turbine	Illinois	0.5	Dropped - Onsite Unit
Mooseheart Power House	50337	GEN3	Combustion Turbine	Illinois	0.3	Dropped - Onsite Unit
Mooseheart Power House	50337	GEN4	Combustion Turbine	Illinois	0.5	Dropped - Onsite Unit
Ford Utilities Center	50906	3	Combustion Turbine	New Mexico	6	Dropped - Onsite Unit
New Mexico State University	54975	1	Combustion Turbine	New Mexico	4.5	Dropped - Onsite Unit
Southwestern Bell Telephone	54858	E/G1	Combustion Turbine	Missouri	2	Dropped - Onsite Unit
Southwestern Bell Telephone	54858	E/G2	Combustion Turbine	Missouri	2	Dropped - Onsite Unit
Southwestern Bell Telephone	54858	E/G3	Combustion Turbine	Missouri	2	Dropped - Onsite Unit
Southwestern Bell Telephone	54858	E/G4	Combustion Turbine	Missouri	2.8	Dropped - Onsite Unit
Southwestern Bell Telephone	54858	E/G5	Combustion Turbine	Missouri	2.8	Dropped - Onsite Unit
Grimes Way	56016	1	Combustion Turbine	Washington	1	Dropped - Onsite Unit
Grimes Way	56016	2	Combustion Turbine	Washington	1	Dropped - Onsite Unit
Grimes Way	56016	3	Combustion Turbine	Washington	1.7	Dropped - Onsite Unit
Oxnard Wastewater Treatment Plant	50224	7610	Non-Fossil Waste	California	0.4	Dropped - Onsite Unit
Oxnard Wastewater Treatment Plant	50224	7710	Non-Fossil Waste	California	0.4	Dropped - Onsite Unit
Oxnard Wastewater Treatment Plant	50224	7810	Non-Fossil Waste	California	0.4	Dropped - Onsite Unit
Riverside Manufacturing	54856	1753	Combustion Turbine	Georgia	0.9	Dropped - Onsite Unit
Univ of Calif Santa Cruz Cogeneration	50064	1	Combustion Turbine	California	2.6	Dropped - Onsite Unit
Southwest Texas State University	50263	GEN1	Combustion Turbine	Texas	6	Dropped - Onsite Unit
PCS Phosphate	50509	GEN1	Non-Fossil Waste	North Carolina	50	Dropped - Onsite Unit
Eielson AFB Central Heat & Power Plant	50392	DG01	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	DG02	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	DG03	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	DG04	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	DG1	Combustion Turbine	Alaska	1.8	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	TG1	Coal Steam	Alaska	0.5	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Eielson AFB Central Heat & Power Plant	50392	TG2	Coal Steam	Alaska	0.5	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	TG3	Coal Steam	Alaska	5	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	TG4	Coal Steam	Alaska	5	Dropped - in Alaska or in Hawaii
Eielson AFB Central Heat & Power Plant	50392	TG5	Coal Steam	Alaska	9	Dropped - in Alaska or in Hawaii
Radford Army Ammunition Plant	52072	GEN1	Coal Steam	Virginia	5.6	Dropped - Onsite Unit
Radford Army Ammunition Plant	52072	GEN2	Coal Steam	Virginia	5.6	Dropped - Onsite Unit
Radford Army Ammunition Plant	52072	GEN3	Coal Steam	Virginia	5.6	Dropped - Onsite Unit
Radford Army Ammunition Plant	52072	GEN4	Coal Steam	Virginia	5.6	Dropped - Onsite Unit
Point Comfort Operations	52069	GEN1	O/G Steam	Texas	14.9	Dropped - Onsite Unit
Point Comfort Operations	52069	GEN2	O/G Steam	Texas	14.9	Dropped - Onsite Unit
Point Comfort Operations	52069	GEN3	O/G Steam	Texas	14.9	Dropped - Onsite Unit
Point Comfort Operations	52069	GEN4	O/G Steam	Texas	14	Dropped - Onsite Unit
SDS Lumber Gorge Energy Division	50231	TG2	Biomass	Washington	5	Dropped - Onsite Unit
SDS Lumber Gorge Energy Division	50231	TG3	Biomass	Washington	4.7	Dropped - Onsite Unit
Weir Cogen Plant	50848	GT1	Combustion Turbine	California	3.2	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Phelps Dodge Cobre Mining	55312	1	Combustion Turbine	New Mexico	0.8	Dropped - Onsite Unit
Phelps Dodge Cobre Mining	55312	2	Combustion Turbine	New Mexico	0.8	Dropped - Onsite Unit
Phelps Dodge Cobre Mining	55312	3	Combustion Turbine	New Mexico	0.8	Dropped - Onsite Unit
Inland Paperboard Packaging Rome	10426	GEN2	Non-Fossil Waste	Georgia	5	Dropped - Onsite Unit
Inland Paperboard Packaging Rome	10426	GEN3	Non-Fossil Waste	Georgia	5	Dropped - Onsite Unit
Inland Paperboard Packaging Rome	10426	GEN4	Non-Fossil Waste	Georgia	20	Dropped - Onsite Unit
Inland Paperboard Packaging Rome	10426	GEN5	Non-Fossil Waste	Georgia	31	Dropped - Onsite Unit
Canton North Carolina	50244	GEN8	Coal Steam	North Carolina	7.5	Dropped - Onsite Unit
Canton North Carolina	50244	GEN9	Coal Steam	North Carolina	7.5	Dropped - Onsite Unit
Canton North Carolina	50244	GN10	Coal Steam	North Carolina	7.5	Dropped - Onsite Unit
Canton North Carolina	50244	GN11	Coal Steam	North Carolina	7.5	Dropped - Onsite Unit
Canton North Carolina	50244	GN12	Coal Steam	North Carolina	10	Dropped - Onsite Unit
Canton North Carolina	50244	GN13	Coal Steam	North Carolina	12.5	Dropped - Onsite Unit
Bowater Newsprint Calhoun Operation	50956	GEN1	Non-Fossil Waste	Tennessee	19	Dropped - Onsite Unit
Bowater Newsprint Calhoun Operation	50956	GEN2	Non-Fossil Waste	Tennessee	20	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Bowater Newsprint Calhoun Operation	50956	GEN3	Non-Fossil Waste	Tennessee	27	Dropped - Onsite Unit
Univ of Massachusetts Medical Center	50087	GEN1	O/G Steam	Massachusetts	1.5	Dropped - Onsite Unit
Univ of Massachusetts Medical Center	50087	GEN2	O/G Steam	Massachusetts	1.5	Dropped - Onsite Unit
Univ of Massachusetts Medical Center	50087	GEN3	O/G Steam	Massachusetts	3	Dropped - Onsite Unit
Univ of San Francisco Cogen	50089	S-17	Combustion Turbine	California	1.4	Dropped - Onsite Unit
Sinclair Oil Refinery	54374	NO1	O/G Steam	Wyoming	0.4	Dropped - Onsite Unit
Sinclair Oil Refinery	54374	NO2	O/G Steam	Wyoming	0.4	Dropped - Onsite Unit
Sinclair Oil Refinery	54374	NO3	O/G Steam	Wyoming	1.3	Dropped - Onsite Unit
Sinclair Oil Refinery	54374	NO5	Combustion Turbine	Wyoming	1.1	Dropped - Onsite Unit
Amalgamated Sugar LLC Nampa	54690	2250	Coal Steam	Idaho	2.2	Dropped - Onsite Unit
Amalgamated Sugar LLC Nampa	54690	500	Coal Steam	Idaho	0.5	Dropped - Onsite Unit
Amalgamated Sugar LLC Nampa	54690	6500	Coal Steam	Idaho	6	Dropped - Onsite Unit
Menominee Acquisition	52017	ST1	Coal Steam	Michigan	1.5	Dropped - Onsite Unit
Menominee Acquisition	52017	ST2	Coal Steam	Michigan	2.5	Dropped - Onsite Unit
Aera San Ardo Cogen Facility	55184	UN-A	Combustion Turbine	California	2.8	Dropped - Onsite Unit
Aera San Ardo Cogen Facility	55184	UN-B	Combustion Turbine	California	2.8	Dropped - Onsite Unit
Kraft Foods Atlantic Gelatin	50425	GEN1	O/G Steam	Massachusetts	2.5	Dropped - Onsite Unit
Kraft Foods Atlantic Gelatin	50425	GEN2	O/G Steam	Massachusetts	0.3	Dropped - Onsite Unit
Kraft Foods Atlantic Gelatin	50425	GEN3	Combustion Turbine	Massachusetts	0.3	Dropped - Onsite Unit
CFI Plant City Phosphate Complex	50371	MI34	Non-Fossil Waste	Florida	27.9	Dropped - Onsite Unit
NSB Atquasuk Utility	7482	NA1	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Atquasuk Utility	7482	NA2	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Atquasuk Utility	7482	NA3	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Atquasuk Utility	7482	PG2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Atquasuk Utility	7482	PG3	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
NSB Kaktovik Utility	7483	PG1A	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Kaktovik Utility	7483	PG2A	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Kaktovik Utility	7483	PG3A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Kaktovik Utility	7483	PG4A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Nuiqsut Utility	7484	PG1A	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
NSB Nuiqsut Utility	7484	PG2A	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Nuiqsut Utility	7484	PG3A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Nuiqsut Utility	7484	PG4A	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Nuiqsut Utility	7484	PG5A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
NSB Nuiqsut Utility	7484	PG6A	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
NSB Point Hope Utility	7485	PG1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Hope Utility	7485	PG2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Hope Utility	7485	PG6	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
NSB Point Hope Utility	7485	PG7	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
NSB Point Hope Utility	7485	PG8	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Point Lay Utility	7486	PG1A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Lay Utility	7486	PG2A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Lay Utility	7486	PG3A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Lay Utility	7486	PG4A	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Lay Utility	7486	PG5	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Point Lay Utility	7486	PG6	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Anaktuvuk Pass	7487	1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Anaktuvuk Pass	7487	2	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Anaktuvuk Pass	7487	3	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
NSB Anaktuvuk Pass	7487	4	Combustion Turbine	Alaska	0.1	Dropped - in Alaska or in Hawaii
NSB Anaktuvuk Pass	7487	6	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Anaktuvuk Pass	7487	7	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Wainwright Utility	7488	PG1	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Wainwright Utility	7488	PG2	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Wainwright Utility	7488	PG3	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
NSB Wainwright Utility	7488	PG4A	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
NSB Wainwright Utility	7488	PG5	Combustion Turbine	Alaska	0.9	Dropped - in Alaska or in Hawaii
Port Townsend Paper	50544	GEN4	Non-Fossil Waste	Washington	3	Dropped - Onsite Unit
Port Townsend Paper	50544	GEN6	Non-Fossil Waste	Washington	7.5	Dropped - Onsite Unit
Port Townsend Paper	50544	HDRO	Hydro	Washington	0.3	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Imperial Savannah LP	50146	GENA	Coal Steam	Georgia	2.7	Dropped - Onsite Unit
Imperial Savannah LP	50146	GENB	Coal Steam	Georgia	3	Dropped - Onsite Unit
Imperial Savannah LP	50146	GENC	Coal Steam	Georgia	1	Dropped - Onsite Unit
Imperial Savannah LP	50146	GEND	Coal Steam	Georgia	4.5	Dropped - Onsite Unit
Providence Memorial Hospital	50241	9541	Combustion Turbine	Texas	2.1	Dropped - Onsite Unit
Providence Memorial Hospital	50241	9542	Combustion Turbine	Texas	2.1	Dropped - Onsite Unit
Stone Container Seminole Mill	50803	GEN3	O/G Steam	Florida	13	Dropped - Onsite Unit
Pelican	6702	HC1	Hydro	Alaska	0.5	Dropped - in Alaska or in Hawaii
Pelican	6702	HC2	Hydro	Alaska	0.1	Dropped - in Alaska or in Hawaii
Pelican	6702	IC1	Combustion Turbine	Alaska	0.3	Dropped - in Alaska or in Hawaii
Pelican	6702	IC2	Combustion Turbine	Alaska	0.1	Dropped - in Alaska or in Hawaii
Pelican	6702	IC3	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Pelican	6702	IC4	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Pelican	6702	IC5	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Pelican	6702	IC6	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Pelican	6702	IC7	Combustion Turbine	Alaska	0.4	Dropped - in Alaska or in Hawaii
Pelican	6702	IC8	Combustion Turbine	Alaska	0.2	Dropped - in Alaska or in Hawaii
Davenport Water Pollution Control Plant	55035	GEN1	Non-Fossil Waste	Iowa	0.8	Dropped - Onsite Unit
Davenport Water Pollution Control Plant	55035	GEN2	Non-Fossil Waste	Iowa	0.8	Dropped - Onsite Unit
ITT Cogen Facility	52021	GEN1	Combustion Turbine	Illinois	3.5	Dropped - Onsite Unit
ITT Cogen Facility	52021	GEN2	Combustion Turbine	Illinois	3.5	Dropped - Onsite Unit
Wasatch Energy Systems Energy Recovery	55302	1	Municipal Solid Waste	Utah	1.4	Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN1	Combustion Turbine	Texas	4.8	Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN2	Combustion Turbine	Texas		Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN3	Combustion Turbine	Texas	8.7	Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN4	Combustion Turbine	Texas		Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN5	Combustion Turbine	Texas		Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN6	Combustion Turbine	Texas	8.7	Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN7	Combustion Turbine	Texas		Dropped - Onsite Unit
Enterprise Products Operating	10261	GEN8	Combustion Turbine	Texas		Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Toca Plant	54705	EG-1	Combustion Turbine	Louisiana	0.8	Dropped - Onsite Unit
Toca Plant	54705	EG-3	Combustion Turbine	Louisiana	0.8	Dropped - Onsite Unit
Toca Plant	54705	EG-4	Combustion Turbine	Louisiana	0.7	Dropped - Onsite Unit
Toca Plant	54705	EG2A	Combustion Turbine	Louisiana	0.5	Dropped - Onsite Unit
Neptune Gas Processing Plant	56139	NPCG	Combustion Turbine	Louisiana	3.1	Dropped - Onsite Unit
International Paper Savanna Mill	50398	GE10	Non-Fossil Waste	Georgia	82.7	Dropped - Onsite Unit
International Paper Savanna Mill	50398	GEN9	Coal Steam	Georgia	71.2	Dropped - Onsite Unit
Rock-Tenn	54513	E-1	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Rock-Tenn	54513	E2-A	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Rock-Tenn	54513	E2-B	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
Rock-Tenn	54513	E3	Combustion Turbine	Illinois	0.8	Dropped - Onsite Unit
Rolls Royce	54286	63F5	Combustion Turbine	Indiana	2.1	Dropped - Onsite Unit
Rolls Royce	54286	N8OT	Landfill Gas	Indiana	4	Dropped - Onsite Unit
Yakutat	6637	2B	Combustion Turbine	Alaska	0.8	Dropped - in Alaska or in Hawaii
Yakutat	6637	3A	Combustion Turbine	Alaska	0.6	Dropped - in Alaska or in Hawaii
Yakutat	6637	4A	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Yakutat	6637	6	Combustion Turbine	Alaska	1.2	Dropped - in Alaska or in Hawaii
Lee Creek Water Treatment Facility	54283	209	Hydro	Arkansas	1.3	Dropped - Onsite Unit
Cellu Tissue Natural Dam	54878	1	Hydro	New York	0.4	Dropped - Onsite Unit
Cellu Tissue Natural Dam	54878	2	Hydro	New York	0.3	Dropped - Onsite Unit
Cellu Tissue Natural Dam	54878	3	Hydro	New York	0.3	Dropped - Onsite Unit
Opryland USA	55037	GTO1	Combustion Turbine	Tennessee	3.1	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	DGT1	Combustion Turbine	Missouri	2	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	GEN1	Coal Steam	Missouri	6	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	GEN2	Coal Steam	Missouri	12.2	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	GEN3	Coal Steam	Missouri	19.2	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	GEN4	Coal Steam	Missouri	13.3	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	GEN6	Combustion Turbine	Missouri	0.5	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	GEN7	Combustion Turbine	Missouri	1	Dropped - Onsite Unit
MU Combined Heat and Power Plant	50969	NTG1	Combustion Turbine	Missouri	11.4	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
MU Combined Heat and Power Plant	50969	NTG2	Combustion Turbine	Missouri	11.4	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	2723	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	654	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	655	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	656	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	657	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	658	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	666	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	667	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Bridgeport Gas Processing Plant	55053	671	Combustion Turbine	Texas	0.8	Dropped - Onsite Unit
Inforum	54290	BUG1	Combustion Turbine	Georgia	1.3	Dropped - Onsite Unit
Athens Regional Medical Center	55319	CT1	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit
Athens Regional Medical Center	55319	CT3	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit
Athens Regional Medical Center	55319	STEG3	Combustion Turbine	Georgia	0.8	Dropped - Onsite Unit
Athens Regional Medical Center	55319	STEG4	Combustion Turbine	Georgia	0.8	Dropped - Onsite Unit
Athens Regional Medical Center	55319	STEG5	Combustion Turbine	Georgia	0.8	Dropped - Onsite Unit
Athens Regional Medical Center	55319	STEG6	Combustion Turbine	Georgia	0.8	Dropped - Onsite Unit
Los Angeles Refinery Wilmington	54451	G1	Combustion Turbine	California	6	Dropped - Onsite Unit
Los Angeles Refinery Wilmington	54451	G2	Fossil Waste	California	45	Dropped - Onsite Unit
Texas City Plant Union Carbide	50153	GTG	Combustion Turbine	Texas	32	Dropped - Onsite Unit
Texas City Plant Union Carbide	50153	STG	Non-Fossil Waste	Texas	38	Dropped - Onsite Unit
Saint Johns Health Center	50610	1	Combustion Turbine	California	1	Dropped - Onsite Unit
Indian Orchard Plant 1	10417	TG	Coal Steam	Massachusetts	3.2	Dropped - Onsite Unit
Orca	789	3	Combustion Turbine	Alaska	2.5	Dropped - in Alaska or in Hawaii
Orca	789	4	Combustion Turbine	Alaska	2.4	Dropped - in Alaska or in Hawaii
Orca	789	5	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Orca	789	6	Combustion Turbine	Alaska	1.1	Dropped - in Alaska or in Hawaii
Orca	789	7	Combustion Turbine	Alaska	3.6	Dropped - in Alaska or in Hawaii
Humpback Creek	7042	1	Hydro	Alaska	0.4	Dropped - in Alaska or in Hawaii
Humpback Creek	7042	2	Hydro	Alaska	0.4	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Humpback Creek	7042	3	Hydro	Alaska	0.2	Dropped - in Alaska or in Hawaii
Power Creek	7862	4	Hydro	Alaska	2.8	Dropped - in Alaska or in Hawaii
Power Creek	7862	5	Hydro	Alaska	2.8	Dropped - in Alaska or in Hawaii
LaFarge Alpena	50305	GE10	Coal Steam	Michigan	3.2	Dropped - Onsite Unit
LaFarge Alpena	50305	GEN6	Coal Steam	Michigan	12	Dropped - Onsite Unit
LaFarge Alpena	50305	GEN7	Coal Steam	Michigan	10	Dropped - Onsite Unit
LaFarge Alpena	50305	GEN8	Coal Steam	Michigan	11	Dropped - Onsite Unit
LaFarge Alpena	50305	GEN9	Coal Steam	Michigan	11	Dropped - Onsite Unit
Whiting Refinery	52130	15TG	Fossil Waste	Indiana	5	Dropped - Onsite Unit
Whiting Refinery	52130	31TG	Fossil Waste	Indiana	11.2	Dropped - Onsite Unit
Whiting Refinery	52130	32TG	Fossil Waste	Indiana	11.2	Dropped - Onsite Unit
Whiting Refinery	52130	33TG	Fossil Waste	Indiana	16.4	Dropped - Onsite Unit
Whiting Refinery	52130	34TG	Fossil Waste	Indiana	11.8	Dropped - Onsite Unit
Whiting Refinery	52130	35TG	Fossil Waste	Indiana	38	Dropped - Onsite Unit
Richmond Refinery TG800	52105	GEN5	Fossil Waste	California	30.4	Dropped - Onsite Unit
Richmond Cogen	52109	GEN1	Combustion Turbine	California	50	Dropped - Onsite Unit
Richmond Cogen	52109	GEN2	Combustion Turbine	California	50	Dropped - Onsite Unit
HGST San Jose Standby Generator	50024	50MW	Combustion Turbine	California	42	Dropped - Onsite Unit
Millinocket Mill	55829	M1S1	O/G Steam	Maine	14.5	Dropped - Onsite Unit
Millinocket Mill	55829	M1S2	O/G Steam	Maine	14.5	Dropped - Onsite Unit
Millinocket Mill	55829	M1S3	O/G Steam	Maine	29.3	Dropped - Onsite Unit
Millinocket Mill	55829	M1S4	O/G Steam	Maine	21.8	Dropped - Onsite Unit
East Millinocket Mill	55830	M2S1	Biomass	Maine	14.5	Dropped - Onsite Unit
East Millinocket Mill	55830	M2S2	Biomass	Maine	14.5	Dropped - Onsite Unit
East Millinocket Mill	55830	M2S3	Biomass	Maine	28.1	Dropped - Onsite Unit
Harford Waste to Energy Facility	54935	1	Municipal Solid Waste	Maryland	1.1	Dropped - Onsite Unit
Yates Gas Plant	55025	GEN1	Combustion Turbine	Texas	2.8	Dropped - Onsite Unit
Yates Gas Plant	55025	GEN2	Combustion Turbine	Texas	2.8	Dropped - Onsite Unit
Cadbury Adams - Rockford	54933	GEN1	Combustion Turbine	Illinois	5	Dropped - Onsite Unit
Rhineland Mill	50933	GEN3	O/G Steam	Wisconsin	0.6	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Rhineland Mill	50933	GEN5	O/G Steam	Wisconsin	4	Dropped - Onsite Unit
Rhineland Mill	50933	GEN6	Coal Steam	Wisconsin	6.3	Dropped - Onsite Unit
Rhineland Mill	50933	HYD1	Hydro	Wisconsin	0.5	Dropped - Onsite Unit
Rhineland Mill	50933	HYD2	Hydro	Wisconsin	0.5	Dropped - Onsite Unit
Rhineland Mill	50933	HYD3	Hydro	Wisconsin	1	Dropped - Onsite Unit
Columbia Flooring Melbourne	56182	Kato	Biomass	Arkansas	1.7	Dropped - Onsite Unit
Colville Indian Plywood & Veneer	56191	Gen1	Biomass	Washington	5	Dropped - Onsite Unit
Colville Indian Plywood & Veneer	56191	Gen2	Biomass	Washington	7.5	Dropped - Onsite Unit
Georgia Pacific Wauna Mill	56192	1	Non-Fossil Waste	Oregon	22	Dropped - Onsite Unit
H Power	10334	GEN1	Municipal Solid Waste	Hawaii	60	Dropped - in Alaska or in Hawaii
American Eagle Paper Mills	50284	TG3	Coal Steam	Pennsylvania	2.5	Dropped - Onsite Unit
American Eagle Paper Mills	50284	TG4	Coal Steam	Pennsylvania	4.5	Dropped - Onsite Unit
American Eagle Paper Mills	50284	TG5	Coal Steam	Pennsylvania	3	Dropped - Onsite Unit
American Eagle Paper Mills	50284	TG6	Coal Steam	Pennsylvania	7	Dropped - Onsite Unit
Decorative Panels Intl	10149	GEN1	Coal Steam	Michigan	6.8	Dropped - Onsite Unit
Lincoln Paper & Tissue	54587	TG-3	Non-Fossil Waste	Maine	9	Dropped - Onsite Unit
Lincoln Paper & Tissue	54587	WEST	Non-Fossil Waste	Maine	3.5	Dropped - Onsite Unit
Veolia Energy-OKC	56246	EMG1	Combustion Turbine	Oklahoma	0.3	Dropped - Onsite Unit
Veolia Energy-OKC	56246	EMG3	Combustion Turbine	Oklahoma	0.3	Dropped - Onsite Unit
Brunswick Cellulose	10605	GEN3	Non-Fossil Waste	Georgia	9.2	Dropped - Onsite Unit
Brunswick Cellulose	10605	GEN4	Non-Fossil Waste	Georgia	50	Dropped - Onsite Unit
Brunswick Cellulose	10605	GEN5	Non-Fossil Waste	Georgia	13	Dropped - Onsite Unit
Camden South Carolina	10795	GEN1	Coal Steam	South Carolina	5.5	Dropped - Onsite Unit
Camden South Carolina	10795	GEN2	Coal Steam	South Carolina	5.5	Dropped - Onsite Unit
Camden South Carolina	10795	GEN3	Coal Steam	South Carolina	17.5	Dropped - Onsite Unit
Salem Harbor	1626	1	Coal Steam	Massachusetts	79.7	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Salem Harbor	1626	2	Coal Steam	Massachusetts	78	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Salem Harbor	1626	3	Coal Steam	Massachusetts	149.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Salem Harbor	1626	4	O/G Steam	Massachusetts	436.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Neenah Paper Munising Mill	54867	M387	Coal Steam	Michigan	5.8	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
PPG Natrium Plant	50491	GEN3	Coal Steam	West Virginia	7.5	Dropped - Onsite Unit
PPG Natrium Plant	50491	GEN4	Coal Steam	West Virginia	7.5	Dropped - Onsite Unit
PPG Natrium Plant	50491	GEN6	Coal Steam	West Virginia	26	Dropped - Onsite Unit
PPG Natrium Plant	50491	GEN7	Coal Steam	West Virginia	82	Dropped - Onsite Unit
PPG Industries Works 14	54360	PORT	Combustion Turbine	Illinois	0.7	Dropped - Onsite Unit
PPG Industries Works 14	54360	TK1	Combustion Turbine	Illinois	2	Dropped - Onsite Unit
PPG Industries Works 14	54360	TK2	Combustion Turbine	Illinois	2	Dropped - Onsite Unit
PPG Industries Shelby NC Works	54363	GEN2	Combustion Turbine	North Carolina	0.6	Dropped - Onsite Unit
PPG Industries Shelby NC Works	54363	GEN3	Combustion Turbine	North Carolina	0.6	Dropped - Onsite Unit
PPG Industries Shelby NC Works	54363	GEN4	Combustion Turbine	North Carolina	0.8	Dropped - Onsite Unit
PPG Industries Shelby NC Works	54363	GEN5	Combustion Turbine	North Carolina	0.8	Dropped - Onsite Unit
PPG Industries Works 4	54364	L1G	Combustion Turbine	Texas	2	Dropped - Onsite Unit
PPG Industries Works 4	54364	L1PG	Combustion Turbine	Texas	0.9	Dropped - Onsite Unit
PPG Industries Works 4	54364	L2G	Combustion Turbine	Texas	2	Dropped - Onsite Unit
PPG Industries Works 4	54364	L2PG	Combustion Turbine	Texas	1.1	Dropped - Onsite Unit
Santa Maria EPG	56284	EPG	Fossil Waste	California	5.5	Dropped - Onsite Unit
Medford Operation	56193	1	Biomass	Oregon	3.1	Dropped - Onsite Unit
Medford Operation	56193	2	Biomass	Oregon	4.4	Dropped - Onsite Unit
Bayway Refinery	56294	FGX	Non-Fossil Waste	New Jersey	11.2	Dropped - Onsite Unit
Luke Mill	50282	GEN1	Coal Steam	Maryland	32	Dropped - Onsite Unit
Luke Mill	50282	GEN2	Coal Steam	Maryland	28	Dropped - Onsite Unit
Rock-Tenn Mill	54763	2TG	Non-Fossil Waste	Alabama	8.6	Dropped - Onsite Unit
Rock-Tenn Mill	54763	3TG	Non-Fossil Waste	Alabama	16	Dropped - Onsite Unit
Sunoco Eagle Point Refinery	55113	TR1	Fossil Waste	New Jersey	7	Dropped - Onsite Unit
Sunoco Eagle Point Refinery	55113	TR2	Fossil Waste	New Jersey	7	Dropped - Onsite Unit
Sunoco Eagle Point Refinery	55113	TR3	Fossil Waste	New Jersey	7	Dropped - Onsite Unit
Dekalb Medical Center	54830	3	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit
Dekalb Medical Center	54830	90	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit
Dekalb Medical Center	54830	93	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit
DeKalb Medical Center-Hillandale	56231	1	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
DeKalb Medical Center-Hilandale	56231	2	Combustion Turbine	Georgia	0.7	Dropped - Onsite Unit
Jameson Gas Processing Plant	55052	620	Combustion Turbine	Texas	0.3	Dropped - Onsite Unit
Jameson Gas Processing Plant	55052	621	Combustion Turbine	Texas	0.3	Dropped - Onsite Unit
Jameson Gas Processing Plant	55052	622	Combustion Turbine	Texas	0.5	Dropped - Onsite Unit
Terra Mississippi Nitrogen	10195	EXIS	Combustion Turbine	Mississippi	21.3	Dropped - Onsite Unit
Georgia Pacific Palatka Operations	10611	GEN2	O/G Steam	Florida	7	Dropped - Onsite Unit
Georgia Pacific Palatka Operations	10611	GEN4	Non-Fossil Waste	Florida	44.6	Dropped - Onsite Unit
Georgia Pacific Palatka Operations	10611	GEN8	Non-Fossil Waste	Florida	25.1	Dropped - Onsite Unit
Georgia Pacific Port Hudson	10612	GEN1	Non-Fossil Waste	Louisiana	67.7	Dropped - Onsite Unit
Georgia Pacific Port Hudson	10612	GEN2	Coal Steam	Louisiana	60	Dropped - Onsite Unit
Valero Energy Port Arthur Refinery	52108	GEN1	Combined Cycle	Texas	14	Dropped - Onsite Unit
Valero Energy Port Arthur Refinery	52108	GEN2	Combined Cycle	Texas	12	Dropped - Onsite Unit
Valero Energy Port Arthur Refinery	52108	GEN4	Combined Cycle	Texas	10	Dropped - Onsite Unit
Valero Energy Port Arthur Refinery	52108	GEN5	Combined Cycle	Texas	10	Dropped - Onsite Unit
Valero Energy Port Arthur Refinery	52108	GEN6	Combined Cycle	Texas	10	Dropped - Onsite Unit
Valero Energy Port Arthur Refinery	52108	GEN7	Combined Cycle	Texas	10	Dropped - Onsite Unit
Solo Cup Co	56040	1	Combustion Turbine	Maryland	5.6	Dropped - Onsite Unit
Solo Cup Co	56040	2	Combustion Turbine	Maryland	5.6	Dropped - Onsite Unit
MPEA Energy Center	55067	GEN1	Combustion Turbine	Illinois	1.1	Dropped - Onsite Unit
MPEA Energy Center	55067	GEN2	Combustion Turbine	Illinois	1.1	Dropped - Onsite Unit
MPEA Energy Center	55067	GEN3	Combustion Turbine	Illinois	1.1	Dropped - Onsite Unit
MPEA Energy Center	55067	GEN4	Combustion Turbine	Illinois	2	Dropped - Onsite Unit
MPEA Energy Center	55067	GEN5	Combustion Turbine	Illinois	2	Dropped - Onsite Unit
MPEA Energy Center	55067	GEN6	Combustion Turbine	Illinois	2	Dropped - Onsite Unit
Seadrift Coke LP	10167	GEN1	Coal Steam	Texas	7.6	Dropped - Onsite Unit
International Paper Kaukauna Mill	54098	GEN1	Non-Fossil Waste	Wisconsin	6	Dropped - Onsite Unit
International Paper Kaukauna Mill	54098	GEN2	Non-Fossil Waste	Wisconsin	11	Dropped - Onsite Unit
International Paper Kaukauna Mill	54098	GEN3	Non-Fossil Waste	Wisconsin	15.6	Dropped - Onsite Unit
International Paper Kaukauna Mill	54098	GEN4	Coal Steam	Wisconsin	12	Dropped - Onsite Unit
TempleInland	10425	TG	Non-Fossil Waste	Texas	36.8	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Kyocera America Project	10720	85	Combustion Turbine	California	0.7	Dropped - Onsite Unit
Kyocera America Project	10720	88	Combustion Turbine	California	0.7	Dropped - Onsite Unit
Kyocera America Project	10720	95	Combustion Turbine	California	0.8	Dropped - Onsite Unit
Kyocera America Project	10720	96	Combustion Turbine	California	0.7	Dropped - Onsite Unit
Chocolate Bayou Works	10154	GEN1	Combustion Turbine	Texas	30	Dropped - Onsite Unit
Mead Rumford Cogen	10491	3STG	O/G Steam	Maine	12.5	Dropped - Onsite Unit
Wailuku River Hydroelectric	54827	8101	Hydro	Hawaii	4.9	Dropped - in Alaska or in Hawaii
Wailuku River Hydroelectric	54827	8102	Hydro	Hawaii	4.9	Dropped - in Alaska or in Hawaii
Wausau Paper Mills LLC	50636	1	Hydro	Minnesota	0.5	Dropped - Onsite Unit
Wausau Paper Mills LLC	50636	2	Hydro	Minnesota	0.5	Dropped - Onsite Unit
Wausau Paper Mills LLC	50636	3	Hydro	Minnesota	0.4	Dropped - Onsite Unit
Wausau Paper Mills LLC	50636	4	Hydro	Minnesota	0.6	Dropped - Onsite Unit
Wausau Paper Mills LLC	50636	5	Hydro	Minnesota	0.6	Dropped - Onsite Unit
Wausau Paper Mills LLC	50636	VPLS	Coal Steam	Minnesota	0.4	Dropped - Onsite Unit
Big Escambia Creek	50724	3011	O/G Steam	Alabama	1.1	Dropped - Onsite Unit
Big Escambia Creek	50724	3012	O/G Steam	Alabama	1.1	Dropped - Onsite Unit
Big Escambia Creek	50724	3023	O/G Steam	Alabama	1.1	Dropped - Onsite Unit
American Gypsum Cogeneration	54630	D-1	Combustion Turbine	Colorado	1.2	Dropped - Onsite Unit
American Gypsum Cogeneration	54630	D-2	Combustion Turbine	Colorado	1.2	Dropped - Onsite Unit
American Gypsum Cogeneration	54630	T-1	Combustion Turbine	Colorado	2.6	Dropped - Onsite Unit
American Gypsum Cogeneration	54630	T-2	Combustion Turbine	Colorado	2.6	Dropped - Onsite Unit
New Milford Gas Recovery	50564	GEN4	Landfill Gas	Connecticut	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Monroe Livingston Gas Recovery	50565	GEN2	Landfill Gas	New York	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
BJ Gas Recovery	54392	GEN3	Landfill Gas	Georgia	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Ridgeview	55925	GEN9	Landfill Gas	Wisconsin	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Timberline Trail Gas Recovery	56525	GEN6	Landfill Gas	Wisconsin	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Timberline Trail Gas Recovery	56525	GEN7	Landfill Gas	Wisconsin	0.8	Dropped - PLANNED_RETIREMENT_YEAR <=2015
CID Gas Recovery	50573	GEN1	Landfill Gas	Illinois	2.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Lake Gas Recovery	50575	GEN2	Landfill Gas	Illinois	2.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Kaheawa Pastures Wind Farm	56449	1	Wind	Hawaii	30	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Flambeau River Papers	50620	GEN1	Biomass	Wisconsin	4.7	Dropped - Onsite Unit
P H Glatfelter Co -Chillicothe Facility	10244	T-10	Non-Fossil Waste	Ohio	4.1	Dropped - Onsite Unit
P H Glatfelter Co -Chillicothe Facility	10244	T-11	Non-Fossil Waste	Ohio	10.8	Dropped - Onsite Unit
P H Glatfelter Co -Chillicothe Facility	10244	T-12	Non-Fossil Waste	Ohio	19.3	Dropped - Onsite Unit
P H Glatfelter Co -Chillicothe Facility	10244	T-13	Coal Steam	Ohio	19.1	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN1	Hydro	West Virginia	0.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN2	Hydro	West Virginia	0.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN3	Hydro	West Virginia	0.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN4	Hydro	West Virginia	0.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN5	Hydro	West Virginia	0.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN6	Hydro	West Virginia	0.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN7	Hydro	West Virginia	1.3	Dropped - Onsite Unit
Glen Ferris Hydro	50010	GEN8	Hydro	West Virginia	1.3	Dropped - Onsite Unit
Otsego Mill Power Plant	55799	NRTH	Combustion Turbine	Michigan	8.8	Dropped - Onsite Unit
Otsego Mill Power Plant	55799	SOTH	Combustion Turbine	Michigan	8.8	Dropped - Onsite Unit
DEGS of Narrows LLC	52089	GEN1	Coal Steam	Virginia	6	Dropped - Onsite Unit
DEGS of Narrows LLC	52089	GEN2	Coal Steam	Virginia	6	Dropped - Onsite Unit
DEGS of Narrows LLC	52089	GEN3	Coal Steam	Virginia	5	Dropped - Onsite Unit
DEGS of Narrows LLC	52089	GEN4	Coal Steam	Virginia	4	Dropped - Onsite Unit
International Paper Jay Hydro	50047	GEN1	Hydro	Maine	0.5	Dropped - Onsite Unit
International Paper Jay Hydro	50047	GEN2	Hydro	Maine	0.5	Dropped - Onsite Unit
International Paper Jay Hydro	50047	GEN3	Hydro	Maine	0.5	Dropped - Onsite Unit
International Paper Jay Hydro	50047	GEN4	Hydro	Maine	0.5	Dropped - Onsite Unit
International Paper Jay Hydro	50047	GEN5	Hydro	Maine	0.5	Dropped - Onsite Unit
International Paper Jay Hydro	50047	GEN6	Hydro	Maine	0.6	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN1	Hydro	Maine	1.1	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN2	Hydro	Maine	1.1	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN3	Hydro	Maine	1.1	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN4	Hydro	Maine	1.2	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN5	Hydro	Maine	1.1	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
International Paper Livermore Hydro	50082	GEN6	Hydro	Maine	0.7	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN7	Hydro	Maine	0.9	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN8	Hydro	Maine	1	Dropped - Onsite Unit
International Paper Livermore Hydro	50082	GEN9	Hydro	Maine	1	Dropped - Onsite Unit
Androscoggin Mill	54085	GEN1	Non-Fossil Waste	Maine	25	Dropped - Onsite Unit
Androscoggin Mill	54085	GEN2	Non-Fossil Waste	Maine	25	Dropped - Onsite Unit
Androscoggin Mill	54085	GEN3	Non-Fossil Waste	Maine	30	Dropped - Onsite Unit
KapStone Kraft Paper Corp	50254	GEN1	Coal Steam	North Carolina	25	Dropped - Onsite Unit
Versailles Mill	54657	NO1	O/G Steam	Connecticut	14	Dropped - Onsite Unit
Kentucky Mills	55429	1	Non-Fossil Waste	Kentucky	49	Dropped - Onsite Unit
Weyerhaeuser Kingsport Mill	10252	NO.1	Non-Fossil Waste	Tennessee	46.5	Dropped - Onsite Unit
R & R Lumber	50945	ST1	Biomass	Oregon	1.4	Dropped - Onsite Unit
Pine Bluff Mill	10627	1TG1	Non-Fossil Waste	Arkansas	32	Dropped - Onsite Unit
Pine Bluff Mill	10627	2TG1	Non-Fossil Waste	Arkansas	15	Dropped - Onsite Unit
Pine Bluff Mill	10627	3TG1	Non-Fossil Waste	Arkansas	13	Dropped - Onsite Unit
Escanaba Paper Company	10208	NO.7	Coal Steam	Michigan	32	Dropped - Onsite Unit
Escanaba Paper Company	10208	NO.8	Non-Fossil Waste	Michigan	23	Dropped - Onsite Unit
Escanaba Paper Company	10208	NO9	Coal Steam	Michigan	45	Dropped - Onsite Unit
RG Steel Sparrows Point, LLC	10485	GEN1	Fossil Waste	Maryland	152.3	Dropped - Onsite Unit
RG Steel Sparrows Point, LLC	10485	GEN2	Fossil Waste	Maryland		Dropped - Onsite Unit
RG Steel Sparrows Point, LLC	10485	GEN3	Fossil Waste	Maryland		Dropped - Onsite Unit
RG Steel Sparrows Point, LLC	10485	GEN4	Fossil Waste	Maryland		Dropped - Onsite Unit
Lanai Solar-Electric Plant	56667	1	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	2	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	3	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	4	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	5	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	6	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	7	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	8	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Lanai Solar-Electric Plant	56667	9	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	10	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	11	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Lanai Solar-Electric Plant	56667	12	Solar PV	Hawaii	0.1	Dropped - in Alaska or in Hawaii
Green Bay West Mill	10360	GEN10	Coal Steam	Wisconsin	26.4	Dropped - Onsite Unit
Green Bay West Mill	10360	GEN5	Coal Steam	Wisconsin	7.5	Dropped - Onsite Unit
Green Bay West Mill	10360	GEN6	Coal Steam	Wisconsin	18	Dropped - Onsite Unit
Green Bay West Mill	10360	GEN7	Coal Steam	Wisconsin	23	Dropped - Onsite Unit
Green Bay West Mill	10360	GEN9	Coal Steam	Wisconsin	38	Dropped - Onsite Unit
Georgia Pacific Brewton Mill	54789	1TG	Non-Fossil Waste	Alabama	10.2	Dropped - Onsite Unit
Georgia Pacific Brewton Mill	54789	2TG	Non-Fossil Waste	Alabama	12.4	Dropped - Onsite Unit
Georgia Pacific Brewton Mill	54789	3TG	Non-Fossil Waste	Alabama	14.1	Dropped - Onsite Unit
Regional Wastewater Control Facility	56134	101	Non-Fossil Waste	California	1	Dropped - Onsite Unit
Regional Wastewater Control Facility	56134	301	Non-Fossil Waste	California	1	Dropped - Onsite Unit
Regional Wastewater Control Facility	56134	401	Non-Fossil Waste	California	1	Dropped - Onsite Unit
Regional Wastewater Control Facility	56134	501	Combustion Turbine	California	1	Dropped - Onsite Unit
Biron Mill	10234	GEN1	Coal Steam	Wisconsin	15.3	Dropped - Onsite Unit
Biron Mill	10234	GEN3	Coal Steam	Wisconsin	7.5	Dropped - Onsite Unit
Biron Mill	10234	GEN4	Coal Steam	Wisconsin	12.5	Dropped - Onsite Unit
Biron Mill	10234	GEN5	Coal Steam	Wisconsin	20	Dropped - Onsite Unit
Wisconsin Rapids Paper Mill	10466	GEN1	Non-Fossil Waste	Wisconsin	7.5	Dropped - Onsite Unit
Wisconsin Rapids Paper Mill	10466	GEN2	Non-Fossil Waste	Wisconsin	8.6	Dropped - Onsite Unit
Wisconsin Rapids Paper Mill	10466	GEN3	Non-Fossil Waste	Wisconsin	5	Dropped - Onsite Unit
Whiting Mill	10476	GEN4	Coal Steam	Wisconsin	4.1	Dropped - Onsite Unit
Duluth Paper Mill	50424	GEN1	Non-Fossil Waste	Minnesota	10.6	Dropped - Onsite Unit
Niagara Mill	54857	1HY	Hydro	Wisconsin	1.8	Dropped - Onsite Unit
Niagara Mill	54857	1ST	Coal Steam	Wisconsin	2.5	Dropped - Onsite Unit
Niagara Mill	54857	2HY	Hydro	Wisconsin	2.2	Dropped - Onsite Unit
Niagara Mill	54857	2ST	Coal Steam	Wisconsin	9.3	Dropped - Onsite Unit
Niagara Mill	54857	3HY	Hydro	Wisconsin	2.6	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Niagara Mill	54857	4HY	Hydro	Wisconsin	2.6	Dropped - Onsite Unit
Niagara Mill	54857	5HY	Hydro	Wisconsin	1	Dropped - Onsite Unit
Niagara Mill	54857	6HY	Hydro	Wisconsin	2.5	Dropped - Onsite Unit
Stevens Point Mill	55861	SP	O/G Steam	Wisconsin	7	Dropped - Onsite Unit
Parkedale Pharmaceuticals	50318	38-1	Combustion Turbine	Michigan	2.8	Dropped - Onsite Unit
Catalyst Paper Snowflake Mill	50805	GEN1	Coal Steam	Arizona	26	Dropped - Onsite Unit
Catalyst Paper Snowflake Mill	50805	GEN2	Coal Steam	Arizona	42	Dropped - Onsite Unit
Equilon Los Angeles Refining	50530	GEN1	Fossil Waste	California	25	Dropped - Onsite Unit
Equilon Los Angeles Refining	50530	GEN2	Fossil Waste	California	25	Dropped - Onsite Unit
Equilon Los Angeles Refining	50530	GEN3	Fossil Waste	California	15	Dropped - Onsite Unit
Biosphere 2 Center	54594	G-1	Combustion Turbine	Arizona	1.5	Dropped - Onsite Unit
Biosphere 2 Center	54594	G-4	Combustion Turbine	Arizona	1.6	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG1	Hydro	Wisconsin	0.6	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG2	Hydro	Wisconsin	0.5	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG3	Hydro	Wisconsin	0.6	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG4	Hydro	Wisconsin	0.5	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG5	Hydro	Wisconsin	1	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG6	Hydro	Wisconsin	0.7	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	HG7	Hydro	Wisconsin	0.5	Dropped - Onsite Unit
Domtar Paper Company Rothschild	50190	TG2	O/G Steam	Wisconsin	4.7	Dropped - Onsite Unit
Kamin LLC Wrens Plant	54880	SDT1	Combustion Turbine	Georgia	1.7	Dropped - Onsite Unit
Kamin LLC Wrens Plant	54880	SDT2	Combustion Turbine	Georgia	1.7	Dropped - Onsite Unit
Kamin LLC Wrens Plant	54880	SDT3	Combustion Turbine	Georgia	1.7	Dropped - Onsite Unit
Kamin LLC Wrens Plant	54880	WPH1	Combustion Turbine	Georgia	1.1	Dropped - Onsite Unit
Kamin LLC Wrens Plant	54880	WPH2	Combustion Turbine	Georgia	1.2	Dropped - Onsite Unit
Kamin LLC Wrens Plant	54880	WPH3	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Kamin LLC Wrens Mine	55961	WM1	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
Kamin LLC Wrens Mine	55961	WM2	Combustion Turbine	Georgia	1	Dropped - Onsite Unit
International Paper Sartell Mill	50252	ABB2	Coal Steam	Minnesota	20.4	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG10	Hydro	Minnesota	0.9	Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
International Paper Sartell Mill	50252	HG11	Hydro	Minnesota	0.9	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG12	Hydro	Minnesota	0.9	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG2	Hydro	Minnesota	0.9	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG3	Hydro	Minnesota	0.9	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG4	Hydro	Minnesota	0.9	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG5	Hydro	Minnesota	0.9	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG6	Hydro	Minnesota	0.8	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG7	Hydro	Minnesota	0.8	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG8	Hydro	Minnesota	0.7	Dropped - Onsite Unit
International Paper Sartell Mill	50252	HG9	Hydro	Minnesota	0.7	Dropped - Onsite Unit
Elk Basin Gasoline Plant	52127	GEN1	O/G Steam	Wyoming	0.8	Dropped - Onsite Unit
Elk Basin Gasoline Plant	52127	GEN2	O/G Steam	Wyoming	0.8	Dropped - Onsite Unit
Noranda Alumina LLC	50846	GT1	Combustion Turbine	Louisiana	15	Dropped - Onsite Unit
Noranda Alumina LLC	50846	GT2	Combustion Turbine	Louisiana	15	Dropped - Onsite Unit
Noranda Alumina LLC	50846	GT3	Combustion Turbine	Louisiana	15	Dropped - Onsite Unit
Noranda Alumina LLC	50846	GT4	Combustion Turbine	Louisiana	21	Dropped - Onsite Unit
Noranda Alumina LLC	50846	ST1	O/G Steam	Louisiana	17	Dropped - Onsite Unit
Noranda Alumina LLC	50846	ST2	O/G Steam	Louisiana	17	Dropped - Onsite Unit
Noranda Alumina LLC	50846	ST3	O/G Steam	Louisiana	6	Dropped - Onsite Unit
Riverwood 100 Building	54816	11KT	Combustion Turbine	Georgia	1.1	Dropped - Onsite Unit
Benedum Plant	54458	BG3A	Combustion Turbine	Texas	1	Dropped - Onsite Unit
Benedum Plant	54458	BG6	Combustion Turbine	Texas	1	Dropped - Onsite Unit
Johnsonburg Mill	54638	PT1	Non-Fossil Waste	Pennsylvania	49	Dropped - Onsite Unit
ArcelorMittal Burns Harbor	10245	GEN5	Fossil Waste	Indiana	60.5	Dropped - Onsite Unit
ArcelorMittal Burns Harbor	10245	GEN6	Fossil Waste	Indiana	51	Dropped - Onsite Unit
ArcelorMittal Burns Harbor	10245	GEN7	Fossil Waste	Indiana	63.2	Dropped - Onsite Unit
Expander Turbine	10475	16TG	Fossil Waste	Indiana	15	Dropped - Onsite Unit
Dynegy South Bay Power Plant	310	2	O/G Steam	California	150	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dynegy South Bay Power Plant	310	5	Combustion Turbine	California	14	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Dynegy South Bay Power Plant	310	ST1	O/G Steam	California	146	Dropped - PLANNED_RETIREMENT_YEAR <=2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
International Paper Valliant OK	50192	TG1	Non-Fossil Waste	Oklahoma	57.8	Dropped - Onsite Unit
ArcelorMittal Indiana Harbor West	10397	GEN5	Fossil Waste	Indiana	3.1	Dropped - Onsite Unit
ArcelorMittal Indiana Harbor West	10397	GEN6	Fossil Waste	Indiana	3.1	Dropped - Onsite Unit
ArcelorMittal Indiana Harbor West	10397	GEN7	Fossil Waste	Indiana	3.9	Dropped - Onsite Unit
ArcelorMittal Indiana Harbor West	10397	GEN8	Fossil Waste	Indiana	3.9	Dropped - Onsite Unit
ArcelorMittal Indiana Harbor West	10397	GEN9	Fossil Waste	Indiana	11.9	Dropped - Onsite Unit
Finch Paper	10511	GEN6	O/G Steam	New York	23	Dropped - Onsite Unit
Verso Paper Quinnesec Mich Mill	50251	GEN1	Non-Fossil Waste	Michigan	28	Dropped - Onsite Unit
US DOE Savannah River Site (D Area)	7652	HP-1	Coal Steam	South Carolina	9.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
US DOE Savannah River Site (D Area)	7652	HP-2	Coal Steam	South Carolina	9.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
US DOE Savannah River Site (D Area)	7652	HP-3	Coal Steam	South Carolina	9.4	Dropped - PLANNED_RETIREMENT_YEAR <=2015
US DOE Savannah River Site (D Area)	7652	LP-1	Coal Steam	South Carolina	12.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
US DOE Savannah River Site (D Area)	7652	LP-2	Coal Steam	South Carolina	12.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
US DOE Savannah River Site (D Area)	7652	LP-3	Coal Steam	South Carolina	12.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
US DOE Savannah River Site (D Area)	7652	LP-4	Coal Steam	South Carolina	12.5	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Clearwater Paper APP CB	50638	GEN1	Non-Fossil Waste	Arkansas	20	Dropped - Onsite Unit
IP Springfield Oregon	50191	TG1	Non-Fossil Waste	Oregon	7.5	Dropped - Onsite Unit
IP Springfield Oregon	50191	TG2	Non-Fossil Waste	Oregon	5	Dropped - Onsite Unit
IP Springfield Oregon	50191	TG3	Non-Fossil Waste	Oregon	12.5	Dropped - Onsite Unit
IP Springfield Oregon	50191	TG4	Non-Fossil Waste	Oregon	33	Dropped - Onsite Unit
Weyerhaeuser Pine Hill Operations	54752	NO1	Biomass	Alabama	40	Dropped - Onsite Unit
Weyerhaeuser Pine Hill Operations	54752	NO2	Non-Fossil Waste	Alabama	30.6	Dropped - Onsite Unit
Pasadena	10638	GEN1	Combustion Turbine	Texas	2.6	Dropped - Onsite Unit
Boise Cascade Pulp & Paper Mill	55044	STG1	O/G Steam	Alabama	17.8	Dropped - Onsite Unit
Covanta WBH LLC	50660	GEN1	Municipal Solid Waste	Oklahoma	15.6	Dropped - Onsite Unit
Ashland Inc	10207	GEN1	Coal Steam	Missouri	8.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Ashland Inc	10207	GEN2	Coal Steam	Missouri	8.6	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Utility Plants Section	50308	GEN1	Coal Steam	Alaska	24	Dropped - Onsite Unit
Utility Plants Section	50308	GEN2	Coal Steam	Alaska		Dropped - Onsite Unit
Utility Plants Section	50308	GEN3	Coal Steam	Alaska		Dropped - Onsite Unit

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Notes
Utility Plants Section	50308	GEN4	Coal Steam	Alaska		Dropped - Onsite Unit
Utility Plants Section	50308	GEN5	Coal Steam	Alaska		Dropped - Onsite Unit
Pulp Mill Power House	10074	GEN1	Non-Fossil Waste	California	20	Dropped - Onsite Unit
Chalmette Refining LLC	50626	GEN1	Non-Fossil Waste	Louisiana	1.2	Dropped - Onsite Unit
DTE Pontiac North LLC	10111	GEN1	Coal Steam	Michigan	19	Dropped - Onsite Unit
Red Shield Environmental Old Town Facili	10700	TG2	O/G Steam	Maine	3	Dropped - Onsite Unit
Red Shield Environmental Old Town Facili	10700	TG4	Non-Fossil Waste	Maine	7.5	Dropped - Onsite Unit
Red Shield Environmental Old Town Facili	10700	TG5	Combustion Turbine	Maine	8.8	Dropped - Onsite Unit
Red Shield Environmental Old Town Facili	10700	TG6	Biomass	Maine	14	Dropped - Onsite Unit
Warner Lambert	54604	016E	Combustion Turbine	Michigan	1	Dropped - Onsite Unit
Warner Lambert	54604	550	Combustion Turbine	Michigan	1.5	Dropped - Onsite Unit
Warner Lambert	54604	085-1	Combustion Turbine	Michigan	2.3	Dropped - Onsite Unit
Warner Lambert	54604	085-2	Combustion Turbine	Michigan	2.3	Dropped - Onsite Unit
Warner Lambert	54604	5164	Combustion Turbine	Michigan	2.8	Dropped - Onsite Unit
Warner Lambert	54604	800-1	Combustion Turbine	Michigan	2.3	Dropped - Onsite Unit
Chocolate Bayou Plant	10418	GEN1	Fossil Waste	Texas	5.2	Dropped - Onsite Unit
Chocolate Bayou Plant	10418	GEN4	Fossil Waste	Texas	42.5	Dropped - Onsite Unit
St Francisville Mill	10697	GEN2	Non-Fossil Waste	Louisiana	16.5	Dropped - Onsite Unit
Evonik Degussa Tippecanoe Laboratories	54835	T121	Combustion Turbine	Indiana	1.2	Dropped - Onsite Unit
Union Tribune Publishing	10600	GEN1	Combustion Turbine	California	3.1	Dropped - Onsite Unit
WCI Steel	54207	GEN1	Fossil Waste	Ohio	2.8	Dropped - Onsite Unit
WCI Steel	54207	GEN2	Fossil Waste	Ohio	7	Dropped - Onsite Unit
WCI Steel	54207	GEN3	Fossil Waste	Ohio	9.3	Dropped - Onsite Unit
Empire	50760	OE11	Geothermal	Nevada	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Empire	50760	OE12	Geothermal	Nevada	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Empire	50760	OE13	Geothermal	Nevada	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Empire	50760	OE14	Geothermal	Nevada	0.9	Dropped - PLANNED_RETIREMENT_YEAR <=2015
Kapaa Photovoltaic Project	57525	KSPV	Solar PV	Hawaii	1	Dropped - in Alaska or in Hawaii

Table 4-36 Capacity Not Included Due to Recent Announcements

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Wabash River	1010	1	IGCC	Indiana	85	2016
Hoot Lake	1943	2	Coal Steam	Minnesota	58	2020
Hoot Lake	1943	3	Coal Steam	Minnesota	80	2020
Trinidad	511	1	Coal Steam	Colorado	3.8	2020
Colorado Energy Nations Company	10003	BLR3	Coal Steam	Colorado	8.1	2020
Peru	1037	2	Coal Steam	Indiana	20	2015
Peru	1037	5	Coal Steam	Indiana	12	2015
Elizabethtown Power LLC	10380	A BLR	Coal Steam	North Carolina	16	2020
Elizabethtown Power LLC	10380	B BLR	Coal Steam	North Carolina	16	2020
Stockton Cogen	10640	BLR1	Coal Steam	California	54	2015
Escanaba	1771	1	Coal Steam	Michigan	13	2016
Escanaba	1771	2	Coal Steam	Michigan	13	2016
Shiras	1843	1	Coal Steam	Michigan	11.6	2020
Marshall	2144	3	Coal Steam	Missouri	4.8	2020
Avon Lake	2836	10	Coal Steam	Ohio	96	2016
Painesville	2936	4	Coal Steam	Ohio	18.6	1959
Painesville	2936	5	Coal Steam	Ohio	18.6	1976
Transalta Centralia Generation	3845	BW21	Coal Steam	Washington	670	2020
Roanoke Valley Energy Facility I	54035	BLR1	Coal Steam	North Carolina	165	2020
Milwaukee County	7549	1	Coal Steam	Wisconsin	1.4	2016
Milwaukee County	7549	2	Coal Steam	Wisconsin	1.4	2016
Milwaukee County	7549	3	Coal Steam	Wisconsin	1.4	2016
Wood River	898	4	Coal Steam	Illinois	86	2016
Wood River	898	5	Coal Steam	Illinois	368	2016
Dallman	963	31	Coal Steam	Illinois	83	2018
Dallman	963	32	Coal Steam	Illinois	77	2018
Milwaukee County	7549	4	Coal Steam	Wisconsin	1.4	2015
Milwaukee County	7549	5	Coal Steam	Wisconsin	1.4	2015
Polk	7242	9	Combined Cycle	Florida	459	2017
Pueblo Airport Generating Station	56998	GT3	Combustion Turbine	Colorado	90	2014
Cheyenne Prairie Generating Station	57703	02B	Combustion Turbine	Wyoming	40	2018
Cheyenne Prairie Generating Station	57703	03A	Combustion Turbine	Wyoming	40	2018
Oneida Energy	57503	CE1	Combustion Turbine	Wisconsin	1.5	2013
Schuylkill Station (Turbine Gen #3)	50607	GEN1	O/G Steam	Pennsylvania	51.2	2015
PJM_Dom_VA_Biomass	83687	1	Biomass	Virginia	0	2015
Bayou Cogen Plant	10298	GEN2	Combustion Turbine	Texas	65	2014
Bayou Cogen Plant	10298	GEN3	Combustion Turbine	Texas	65	2015
Westend Facility	10685	PINA	Combustion Turbine	California	15	2020
Coggon	1132	4	Combustion Turbine	Iowa	0.6	2014
Coggon	1132	IC1	Combustion Turbine	Iowa	0.6	2016

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Independence	1149	1	Combustion Turbine	Iowa	0.8	2013
Independence	1149	1A	Combustion Turbine	Iowa	1.8	2013
Independence	1149	3A	Combustion Turbine	Iowa	1.8	2013
Independence	1149	3B	Combustion Turbine	Iowa	1.8	2013
Independence	1149	4A	Combustion Turbine	Iowa	1.8	2013
Independence	1149	4B	Combustion Turbine	Iowa	1.8	2013
Independence	1149	5	Combustion Turbine	Iowa	2.3	2013
Independence	1149	6	Combustion Turbine	Iowa	2.8	2013
Independence	1149	7	Combustion Turbine	Iowa	5.8	2013
Vinton	1194	5	Combustion Turbine	Iowa	0.5	2020
Bird City	1224	2	Combustion Turbine	Kansas	2	2020
Attica	1260	1	Combustion Turbine	Kansas	0.4	2013
Attica	1260	2	Combustion Turbine	Kansas	0.8	2013
Attica	1260	4A	Combustion Turbine	Kansas	0.7	2013
Attica	1260	IC3	Combustion Turbine	Kansas	0.9	2013
St Francis	1321	3	Combustion Turbine	Kansas	0.8	2016
Stafford	1325	2	Combustion Turbine	Kansas	0.9	2011
Stafford	1325	3	Combustion Turbine	Kansas	0.8	2011
Sterlington	1404	7B	Combined Cycle	Louisiana	44	2020
Minden	1447	3	Combustion Turbine	Louisiana	2	2015
Minden	1447	4	Combustion Turbine	Louisiana	2	2015
Minden	1447	5	Combustion Turbine	Louisiana	1.3	2015
Minden	1447	7	Combustion Turbine	Louisiana	1.8	2015
Rayne	1456	8	Combustion Turbine	Louisiana	3.4	2020
Perryman	1556	GT2	Combustion Turbine	Maryland	51	2016
Exelon L Street	1587	GT1	Combustion Turbine	Massachusetts	16	2016
Thetford	1719	1	Combustion Turbine	Michigan	30	2015
Thetford	1719	2	Combustion Turbine	Michigan	29	2013
Thetford	1719	3	Combustion Turbine	Michigan	22.5	2013
Thetford	1719	4	Combustion Turbine	Michigan	24.6	2013
Escanaba	1771	3	Combustion Turbine	Michigan	15.5	2016
Grand Haven Diesel Plant	1826	2	Combustion Turbine	Michigan	2.3	2020
Grand Haven Diesel Plant	1826	7	Combustion Turbine	Michigan	5.1	2020
Hoot Lake	1943	D1	Combustion Turbine	Minnesota	0.2	2020
Hoot Lake	1943	D2	Combustion Turbine	Minnesota	0.1	2020
Moose Lake	1996	4	Combustion Turbine	Minnesota	1.3	2020
Clinton Power Station	204	1	Nuclear	Illinois	1065	2017
Henderson	2062	H2	Combustion Turbine	Mississippi	13	2020
Bethany	2114	4	Combustion Turbine	Missouri	1.4	2012
Bethany	2114	5	Combustion Turbine	Missouri	1.7	2012
Bethany	2114	6	Combustion Turbine	Missouri	0.9	2012
Bethany	2114	7	Combustion Turbine	Missouri	1	2012
Fayette	2125	GT1	Combustion Turbine	Missouri	3	2020

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Fayette	2125	GT2	Combustion Turbine	Missouri	2.8	2020
Fayette	2125	GT3	Combustion Turbine	Missouri	2.4	2020
Fayette	2125	GT4	Combustion Turbine	Missouri	1	2020
Vandalia	2165	1	Combustion Turbine	Missouri	1	2020
Vandalia	2165	10	Combustion Turbine	Missouri	1.1	2020
Vandalia	2165	11	Combustion Turbine	Missouri	1	2020
Vandalia	2165	12	Combustion Turbine	Missouri	1	2020
Vandalia	2165	4A	Combustion Turbine	Missouri	1	2020
Vandalia	2165	5A	Combustion Turbine	Missouri	1	2020
Vandalia	2165	8	Combustion Turbine	Missouri	0.8	2020
Vandalia	2165	9	Combustion Turbine	Missouri	1.1	2020
Arnold	2216	2A	Combustion Turbine	Nebraska	0.1	2020
Fort Calhoun	2289	1	Nuclear	Nebraska	479	2016
Sutherland	2306	1	Combustion Turbine	Nebraska	0.5	2013
Sutherland	2306	4	Combustion Turbine	Nebraska	1.4	2013
West Point Municipal	2313	5	Combustion Turbine	Nebraska	4.1	2020
Raton	2468	6	Combustion Turbine	New Mexico	7.8	2012
Ravenswood	2500	GT33	Combustion Turbine	New York	38	2020
Ravenswood	2500	GT7	Combustion Turbine	New York	13.4	2020
Horseshoe Lake	2951	GT7	Combined Cycle	Oklahoma	18	2016
Southwestern	2964	IC1	Combustion Turbine	Oklahoma	2	2020
Darlington County	3250	11	Combustion Turbine	South Carolina	52	2015
French Island	4005	3	Combustion Turbine	Wisconsin	61	2020
Barron	4102	7	Combustion Turbine	Wisconsin	0.6	2020
Burlington City of	490	1	Combustion Turbine	Colorado	1	2006
Burlington City of	490	2	Combustion Turbine	Colorado	2.5	2006
Burlington City of	490	3	Combustion Turbine	Colorado	2.2	2006
Burlington City of	490	4	Combustion Turbine	Colorado	0.8	2006
Gaviota Oil Plant	50623	GENA	Combustion Turbine	California	3	2020
Thermo Greeley	50709	GEN1	Combustion Turbine	Colorado	37	2020
Southeast Kern River Cogen	50751	GTG2	Combustion Turbine	California	3	2020
Southeast Kern River Cogen	50751	GTG3	Combustion Turbine	California	3	2020
Lamar Plant	508	5	Combustion Turbine	Colorado	4.2	2020
Lamar Plant	508	IC1	Combustion Turbine	Colorado	1	2020
Lamar Plant	508	IC2	Combustion Turbine	Colorado	1	2020
North Midway Cogen	52078	GEN7	Combustion Turbine	California	3	2020
North Midway Cogen	52078	GEN8	Combustion Turbine	California	3	2020
North Midway Cogen	52078	GEN9	Combustion Turbine	California	3	2020
Coalinga 6C Cogen	52083	TG1	Combustion Turbine	California	2.7	2020
Coalinga 6C Cogen	52083	TG2	Combustion Turbine	California	2.7	2020
New York Methodist Hospital	52091	3A	Combustion Turbine	New York	0.7	2015
New York Methodist Hospital	52091	4C	Combustion Turbine	New York	0.7	2015
Yuma	524	1	Combustion Turbine	Colorado	0.1	2013

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Yuma	524	2	Combustion Turbine	Colorado	0.1	2013
Yuma	524	4	Combustion Turbine	Colorado	0.5	2013
March Point Cogeneration	54268	STG1	Combined Cycle	Washington	26	2015
DAI Oildale	54410	STG	Combined Cycle	California	7.3	2015
Oroville Cogeneration LP	54477	GEN1	Combustion Turbine	California	1.1	2020
Oroville Cogeneration LP	54477	GEN2	Combustion Turbine	California	1.1	2020
Oroville Cogeneration LP	54477	GEN3	Combustion Turbine	California	1.1	2020
Oroville Cogeneration LP	54477	GEN4	Combustion Turbine	California	1.1	2020
Oroville Cogeneration LP	54477	GEN5	Combustion Turbine	California	1.1	2020
Oroville Cogeneration LP	54477	GEN6	Combustion Turbine	California	1.1	2020
Oroville Cogeneration LP	54477	GEN7	Combustion Turbine	California	1.1	2020
Glenns Ferry Cogen Facility	54578	1001	Combined Cycle	Idaho	10.4	2020
Auburndale Power Partners	54658	CT	Combined Cycle	Florida	111	2014
Auburndale Power Partners	54658	ST	Combined Cycle	Florida	44	2014
NRG Sterlington Power LLC	55099	08	Combustion Turbine	Louisiana	19	2020
Osceola	55192	CTG1	Combustion Turbine	Florida	156	2020
Osceola	55192	CTG2	Combustion Turbine	Florida	156	2020
Osceola	55192	CTG3	Combustion Turbine	Florida	156	2020
DeSoto County Plant	55422	DES1	Combustion Turbine	Florida	159	2015
DeSoto County Plant	55422	DES2	Combustion Turbine	Florida	161	2015
Choctaw County	55706	CTG1	Combined Cycle	Mississippi	167	2020
Partnership Station	55893	1	Combustion Turbine	Florida	3	2015
Partnership Station	55893	2	Combustion Turbine	Florida	3	2015
John Street 1, 3, 4 & 5	56256	JS 3	Combustion Turbine	Connecticut	2	2020
John Street 1, 3, 4 & 5	56256	JS 4	Combustion Turbine	Connecticut	2	2020
John Street 1, 3, 4 & 5	56256	JS 5	Combustion Turbine	Connecticut	2	2020
Nine Mile Gas Processing Plant	57132	1	Combustion Turbine	Oklahoma	2	2020
Nine Mile Gas Processing Plant	57132	2	Combustion Turbine	Oklahoma	2.1	2020
Nine Mile Gas Processing Plant	57132	3	Combustion Turbine	Oklahoma	2.1	2020
TSGT Mobile Generator #15	57476	M15G	Combustion Turbine	New Mexico	2	2020
Highwood Generating Station	57480	GTG1	Combustion Turbine	Montana	40	2015
Foxwoods CoGen	57666	CA1	Combined Cycle	Connecticut	6	2015
Foxwoods CoGen	57666	CA2	Combined Cycle	Connecticut	6	2015
Kansas City International	6144	1	Combustion Turbine	Missouri	16.7	2020
Kansas City International	6144	2	Combustion Turbine	Missouri	16.9	2020
Bellefonte	6150	DG-1	Combustion Turbine	Alabama	7	2020
Bellefonte	6150	DG-2	Combustion Turbine	Alabama	7	2020
G E Turner	629	P3	Combustion Turbine	Florida	59	2015
G E Turner	629	P4	Combustion Turbine	Florida	60	2016
Unionville	6563	1	Combustion Turbine	Missouri	22.5	2020
Unionville	6563	2	Combustion Turbine	Missouri	22.5	2020
Rockport	6594	1	Combustion Turbine	Missouri	1.1	2011
Rockport	6594	2	Combustion Turbine	Missouri	1.1	2011

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Rockport	6594	3	Combustion Turbine	Missouri	0.4	2011
Rockport	6594	4	Combustion Turbine	Missouri	0.3	2011
Rockport	6594	5	Combustion Turbine	Missouri	1.3	2011
Rockport	6594	6	Combustion Turbine	Missouri	1.3	2011
Vero Beach Municipal Power Plant	693	2	Combined Cycle	Florida	13	2015
Vero Beach Municipal Power Plant	693	5	Combined Cycle	Florida	35	2015
Marathon Generating Plant	696	4	Combustion Turbine	Florida	3	2020
Vernon	7436	JH1	Combustion Turbine	California	3.6	2020
Vernon	7436	JH2	Combustion Turbine	California	3.6	2020
Vernon	7436	JH3	Combustion Turbine	California	3.6	2020
Vernon	7436	JH4	Combustion Turbine	California	3.6	2020
Vernon	7436	JH5	Combustion Turbine	California	3.6	2020
Phillips	748	1	Combustion Turbine	Florida	18	2015
Phillips	748	2	Combustion Turbine	Florida	18	2015
Bethany II	7944	9	Combustion Turbine	Missouri	1.2	2012
Comanche	8059	IC1	Combustion Turbine	Oklahoma	4	2020
Quad Cities Generating Station	880	1	Nuclear	Illinois	908	2018
Quad Cities Generating Station	880	2	Nuclear	Illinois	911	2018
Carmi	937	6	Combustion Turbine	Illinois	0.5	2014
Rantoul	958	2	Combustion Turbine	Illinois	0.7	2014
Rantoul	958	4	Combustion Turbine	Illinois	0.7	2014
Ocotillo	116	1	O/G Steam	Arizona	110	2018
Ocotillo	116	2	O/G Steam	Arizona	110	2018
Hutchinson Energy Center	1248	4	O/G Steam	Kansas	162	2015
Louisiana 2	1392	10	O/G Steam	Louisiana	40	2020
Louisiana 2	1392	11	O/G Steam	Louisiana	40	2020
Louisiana 2	1392	12	O/G Steam	Louisiana	58	2020
R S Nelson	1393	3	O/G Steam	Louisiana	153	2020
Willow Glen	1394	1	O/G Steam	Louisiana	152	2020
Willow Glen	1394	3	O/G Steam	Louisiana	450	2020
Willow Glen	1394	5	O/G Steam	Louisiana	485	2020
Little Gypsy	1402	1	O/G Steam	Louisiana	238	2015
Louis Doc Bonin	1443	1	O/G Steam	Louisiana	45	2020
Louis Doc Bonin	1443	2	O/G Steam	Louisiana	84	2020
Louis Doc Bonin	1443	3	O/G Steam	Louisiana	173	2020
Morgan City	1449	3	O/G Steam	Louisiana	18	2015
Plaquemine	1455	1	O/G Steam	Louisiana	17.5	2020
Plaquemine	1455	2	O/G Steam	Louisiana	20.4	2015
Kyrene	147	K-1	O/G Steam	Arizona	34	2020
Kyrene	147	K-2	O/G Steam	Arizona	72	2020
River Rouge	1740	1	O/G Steam	Michigan	234	2020
Austin DT	1960	4	O/G Steam	Minnesota	5.9	2012
Austin DT	1960	5	O/G Steam	Minnesota	5.9	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Moselle	2070	1	O/G Steam	Mississippi	59	2012
Moselle	2070	2	O/G Steam	Mississippi	59	2012
B L England	2378	3	O/G Steam	New Jersey	148	2017
Dynegy Moss Landing Power Plant	260	6-1	O/G Steam	California	754	2019
Dynegy Moss Landing Power Plant	260	7-1	O/G Steam	California	755	2019
AES Alamos LLC	315	1	O/G Steam	California	175	2019
AES Alamos LLC	315	2	O/G Steam	California	175	2019
AES Alamos LLC	315	3	O/G Steam	California	332	2020
AES Alamos LLC	315	4	O/G Steam	California	335	2020
AES Alamos LLC	315	5	O/G Steam	California	485	2019
AES Alamos LLC	315	6	O/G Steam	California	495	2020
AES Huntington Beach LLC	335	1	O/G Steam	California	226	2019
AES Huntington Beach LLC	335	2	O/G Steam	California	226	2020
Permian Basin	3494	6	O/G Steam	Texas	540	2020
Valley	3508	1	O/G Steam	Texas	175	2015
Valley	3508	2	O/G Steam	Texas	550	2015
Valley	3508	3	O/G Steam	Texas	390	2015
AES Redondo Beach LLC	356	5	O/G Steam	California	175	2020
AES Redondo Beach LLC	356	6	O/G Steam	California	175	2020
AES Redondo Beach LLC	356	7	O/G Steam	California	480	2019
AES Redondo Beach LLC	356	8	O/G Steam	California	480	2020
J Robert Massengale	3604	4	O/G Steam	Texas	10	2020
J Robert Massengale	3604	5	O/G Steam	Texas	10	2020
Grayson	377	3	O/G Steam	California	8.6	2016
Grayson	377	4	O/G Steam	California	15.7	2016
Grayson	377	5	O/G Steam	California	18.1	2016
Scattergood	404	1	O/G Steam	California	174	2020
Scattergood	404	2	O/G Steam	California	177	2020
Domtar Paper Co LLC Plymouth NC	50189	PKG	O/G Steam	North Carolina	6.7	2009
Clearwater Paper IPP Lewiston	50637	1PWR	O/G Steam	Idaho	1.4	2020
Clearwater Paper IPP Lewiston	50637	2PWR	O/G Steam	Idaho	1.4	2020
Delaware City Plant	52193	BLR1	Fossil Waste	Delaware	24.7	2020
Indian River	55318	1	O/G Steam	Florida	76	2020
Indian River	55318	2	O/G Steam	Florida	181	2020
Indian River	55318	3	O/G Steam	Florida	320	2020
Mingo Junction Energy Center	55611	BOIL1	Fossil Waste	Ohio	7.5	2020
Mingo Junction Energy Center	55611	BOIL2	Fossil Waste	Ohio	7.5	2020
Mingo Junction Energy Center	55611	BOIL3	Fossil Waste	Ohio	7.5	2020
Mingo Junction Energy Center	55611	BOIL4	Fossil Waste	Ohio	7.5	2020
Olive	6013	01	O/G Steam	California	44	2019
Olive	6013	02	O/G Steam	California	55	2019
Northside Generating Station	667	3	O/G Steam	Florida	505	2019
C D McIntosh Jr	676	1	O/G Steam	Florida	85	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Vero Beach Municipal Power Plant	693	1	O/G Steam	Florida	13	2015
Astoria Generating Station	8906	40	O/G Steam	New York	377	2020
KUCC	56163	MCHP	Combustion Turbine	Utah	5.9	2012
Sweatt	2048	1	O/G Steam	Mississippi	46	2018
Sweatt	2048	2	O/G Steam	Mississippi	46	2018
Arvah B Hopkins	688	1	O/G Steam	Florida	76	2020
Will County	884	3	Coal Steam	Illinois	251	2016
New Castle Plant	3138	EMDB	Combustion Turbine	Pennsylvania	3	2020
Plant X	3485	113B	O/G Steam	Texas	93	2020
S D Warren Westbrook	50447	20	O/G Steam	Maine	10.1	2020
Sutherland	1077	3	O/G steam	Iowa	78	2018
Gadsden	7	1	Coal Steam	Alabama	64	2020
Gadsden	7	2	Coal Steam	Alabama	66	2020
AES Deepwater	10670	AAB001	Coal Steam	Texas	138	2013
Riverside	1081	7	Coal Steam	Iowa	2.4	2015
Riverside	1081	8	Coal Steam	Iowa	2.4	2015
Lawrence Energy Center	1250	3	Coal Steam	Kansas	50	2015
Tecumseh Energy Center	1252	10	Coal Steam	Kansas	129	2015
Paradise	1378	1	Coal Steam	Kentucky	628	2017
Paradise	1378	2	Coal Steam	Kentucky	602	2017
Trenton Channel	1745	18	Coal Steam	Michigan	47	2016
Trenton Channel	1745	19	Coal Steam	Michigan	47	2016
Dunkirk Generating Plant	2554	1	Coal Steam	New York	75	2017
Dunkirk Generating Plant	2554	2	Coal Steam	New York	75	2017
Dunkirk Generating Plant	2554	3	Coal Steam	New York	185	2017
Dunkirk Generating Plant	2554	4	Coal Steam	New York	185	2017
Barry	3	3	Coal Steam	Alabama	249	2015
Allen Steam Plant	3393	1	Coal Steam	Tennessee	247	2019
Allen Steam Plant	3393	2	Coal Steam	Tennessee	247	2019
Allen Steam Plant	3393	3	Coal Steam	Tennessee	247	2019
Walter Scott Jr Energy Center	1082	1	Coal Steam	Iowa	43	2015
Walter Scott Jr Energy Center	1082	2	Coal Steam	Iowa	88	2015
George Neal North	1091	1	Coal Steam	Iowa	137	2016
George Neal North	1091	2	Coal Steam	Iowa	301	2016
Arapahoe	465	4	Coal Steam	Colorado	109	2014
Clinch River	3775	3	Coal Steam	Virginia	230	2015
AES Deepwater	10670	REDST	Non-Fossil Waste	Texas	1	2013
Hutchinson Energy Center	1248	GT4	Combustion Turbine	Kansas	62	2015
Quindaro	1295	GT1	Combustion Turbine	Kansas	13	2016
Jefferies	3319	1	O/G Steam	South Carolina	42	2015
Jefferies	3319	2	O/G Steam	South Carolina	42	2015
Tucumcari station	58125	6	Combustion Turbine	New Mexico	22	2011
Morgan City	1449	4	O/G Steam	Louisiana	36	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Robbins Community Power LLC	56576	1	Biomass	Illinois	27.5	2014
Robbins Community Power LLC	56576	2	Biomass	Illinois	27.5	2014
Herbert A Wagner	1554	2	Coal Steam	Maryland	135	2020
Portsmouth Genco LLC	10071	1A	Coal Steam	Virginia	19.2	2016
Portsmouth Genco LLC	10071	1B	Coal Steam	Virginia	19.2	2016
Portsmouth Genco LLC	10071	1C	Coal Steam	Virginia	19.2	2016
Portsmouth Genco LLC	10071	2A	Coal Steam	Virginia	19.2	2016
Portsmouth Genco LLC	10071	2B	Coal Steam	Virginia	19.2	2016
Portsmouth Genco LLC	10071	2C	Coal Steam	Virginia	19.2	2016
White Pine Electric Power	10148	BLR 2	Coal Steam	Michigan	27	2015
Logansport	1032	5	Coal Steam	Indiana	16.5	2016
Logansport	1032	6	Coal Steam	Indiana	22	2016
Cedar Bay Generating Company LP	10672	CBA	Coal Steam	Florida	83	2017
Cedar Bay Generating Company LP	10672	CBB	Coal Steam	Florida	83	2017
Cedar Bay Generating Company LP	10672	CBC	Coal Steam	Florida	83	2017
AES Beaver Valley Partners Beaver Valley	10676	2	Coal Steam	Pennsylvania	43	2015
AES Beaver Valley Partners Beaver Valley	10676	3	Coal Steam	Pennsylvania	43	2015
AES Beaver Valley Partners Beaver Valley	10676	4	Coal Steam	Pennsylvania	43	2015
AES Beaver Valley Partners Beaver Valley	10676	5	Coal Steam	Pennsylvania	17	2015
Rio Bravo Poso	10769	CFB	Coal Steam	California	33	2014
Cholla	113	2	Coal Steam	Arizona	260	2016
Shawnee	1379	10	Coal Steam	Kentucky	124	2014
C P Crane	1552	1	Coal Steam	Maryland	190	2020
C P Crane	1552	2	Coal Steam	Maryland	195	2020
Brayton Point	1619	1	Coal Steam	Massachusetts	244	2017
Brayton Point	1619	2	Coal Steam	Massachusetts	244	2017
GRDA	165	1	Coal Steam	Oklahoma	490	2017
River Rouge	1740	2	Coal Steam	Michigan	251	2016
Trenton Channel	1745	16	Coal Steam	Michigan	47	2016
Trenton Channel	1745	17	Coal Steam	Michigan	47	2016
Presque Isle	1769	5	Coal Steam	Michigan	88	2020
Presque Isle	1769	6	Coal Steam	Michigan	88	2020
Presque Isle	1769	7	Coal Steam	Michigan	85	2020
Presque Isle	1769	8	Coal Steam	Michigan	85	2020
Presque Isle	1769	9	Coal Steam	Michigan	85	2020
James De Young	1830	3	Coal Steam	Michigan	10.5	2020
James De Young	1830	4	Coal Steam	Michigan	20.5	2020
Eckert Station	1831	4	Coal Steam	Michigan	67	2018
Eckert Station	1831	5	Coal Steam	Michigan	65	2018
Eckert Station	1831	6	Coal Steam	Michigan	64	2018
Virginia	2018	10	Coal Steam	Minnesota	7.2	2006
Sibley	2094	1	Coal Steam	Missouri	47	2019
Sibley	2094	2	Coal Steam	Missouri	46	2019

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Columbia	2123	6	Coal Steam	Missouri	24.5	2016
Missouri City	2171	1	Coal Steam	Missouri	19	2016
Missouri City	2171	2	Coal Steam	Missouri	19	2016
J E Corette Plant	2187	2	Coal Steam	Montana	154	2015
North Omaha	2291	1	Coal Steam	Nebraska	77	2016
North Omaha	2291	2	Coal Steam	Nebraska	109	2016
North Omaha	2291	3	Coal Steam	Nebraska	109	2016
Reid Gardner	2324	4	Coal Steam	Nevada	255	2017
San Juan	2451	2	Coal Steam	New Mexico	320	2017
San Juan	2451	3	Coal Steam	New Mexico	495	2017
C R Huntley Generating Station	2549	67	Coal Steam	New York	218	2016
C R Huntley Generating Station	2549	68	Coal Steam	New York	218	2016
Asheville	2706	1	Coal Steam	North Carolina	191	2020
Asheville	2706	2	Coal Steam	North Carolina	185	2020
Shelby Municipal Light Plant	2943	4	Coal Steam	Ohio	7	2013
Northeastern	2963	3314	Coal Steam	Oklahoma	460	2016
Menasha	4127	B23	Coal Steam	Wisconsin	11	2014
Menasha	4127	B24	Coal Steam	Wisconsin	16	2014
Endicott Station	4259	1	Coal Steam	Michigan	50	2016
Valmont	477	5	Coal Steam	Colorado	184	2017
Navajo	4941	1	Coal Steam	Arizona	750	2020
Widows Creek	50	7	Coal Steam	Alabama	473	2015
Widows Creek	50	8	Coal Steam	Alabama	465	2015
KUCC	56163	1	Coal Steam	Utah	33	2018
KUCC	56163	2	Coal Steam	Utah	33	2018
KUCC	56163	3	Coal Steam	Utah	33	2018
J T Deely	6181	1	Coal Steam	Texas	435	2019
J T Deely	6181	2	Coal Steam	Texas	436	2019
Crystal River	628	1	Coal Steam	Florida	375	2016
Crystal River	628	2	Coal Steam	Florida	494	2016
Lansing Smith	643	1	Coal Steam	Florida	162	2016
Lansing Smith	643	2	Coal Steam	Florida	195	2016
Gorgas	8	6	Coal Steam	Alabama	103	2015
Gorgas	8	7	Coal Steam	Alabama	104	2015
E D Edwards	856	1	Coal Steam	Illinois	117	2017
Will County	884	4	Coal Steam	Illinois	510	2018
Brayton Point	1619	3	Coal Steam	Massachusetts	648	2017
Eagle Valley	991	3	Coal Steam	Indiana	40	2016
Eagle Valley	991	4	Coal Steam	Indiana	56	2016
Eagle Valley	991	5	Coal Steam	Indiana	62	2016
Frank E Ratts	1043	1SG1	Coal Steam	Indiana	120	2015
Frank E Ratts	1043	2SG1	Coal Steam	Indiana	121	2015
W S Lee	3264	1	Coal Steam	South Carolina	100	2016

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
W S Lee	3264	2	Coal Steam	South Carolina	100	2016
Johnsonville	3406	1	Coal Steam	Tennessee	107	2017
Johnsonville	3406	2	Coal Steam	Tennessee	107	2017
Johnsonville	3406	3	Coal Steam	Tennessee	107	2017
Johnsonville	3406	4	Coal Steam	Tennessee	107	2017
Chesapeake	3803	3	Coal Steam	Virginia	156	2015
Chesapeake	3803	4	Coal Steam	Virginia	217	2015
Yorktown	3809	1	Coal Steam	Virginia	159	2017
Wabash River	1010	2	Coal Steam	Indiana	85	2016
Wabash River	1010	3	Coal Steam	Indiana	85	2016
Wabash River	1010	4	Coal Steam	Indiana	85	2016
Wabash River	1010	5	Coal Steam	Indiana	95	2016
FirstEnergy R E Burger	2864	6	Coal Steam	Ohio	47	2012
Muskingum River	2872	5	Coal Steam	Ohio	585	2015
Tanners Creek	988	U4	Coal Steam	Indiana	500	2015
Dubuque	1046	IC1	Combustion Turbine	Iowa	2.1	2016
Dubuque	1046	IC2	Combustion Turbine	Iowa	1.6	2016
Sutherland	1077	1	O/G Steam	Iowa	28.3	2017
Jack Watson	2049	1	O/G Steam	Mississippi	76	2015
Jack Watson	2049	2	O/G Steam	Mississippi	76	2015
Jack Watson	2049	3	O/G Steam	Mississippi	107	2019
Arizona Western College PV	57765	GV1	Solar PV	Arizona	0.5	2014
Arizona Western College PV	57765	GV2	Solar PV	Arizona	0.5	2014
Trinity Oaks Energy	57877	UNT1	Landfill Gas	Texas	1.5	2014
Trinity Oaks Energy	57877	UNT2	Landfill Gas	Texas	1.5	2014
Dinosaur Point	10005	WTGS	Wind	California	17	2018
Central Utilities Plant LAX	10048	GEN1	Combustion Turbine	California	3.5	2013
Central Utilities Plant LAX	10048	GEN2	Combustion Turbine	California	3.5	2013
Asbury Park Press	10157	ENG1	Combustion Turbine	New Jersey	0.7	2014
Asbury Park Press	10157	ENG2	Combustion Turbine	New Jersey	0.7	2014
Cardinal Cogen	10168	GTG1	Combined Cycle	California	32	2015
Cardinal Cogen	10168	STG1	Combined Cycle	California	9.4	2015
IMC Phosphates Company Uncle Sam	10198	GEN1	Non-Fossil Waste	Louisiana	10.2	2011
Bayou Cogen Plant	10298	GEN1	Combustion Turbine	Texas	65	2014
Logansport	1032	6	Combustion Turbine	Indiana	15	2016
Newby Island I	10388	1	Landfill Gas	California	0.5	2013
Newby Island I	10388	2	Landfill Gas	California	0.5	2013
Newby Island I	10388	3	Landfill Gas	California	0.5	2013
Newby Island I	10388	4	Landfill Gas	California	0.5	2013
American Canyon Power Plant	10392	1	Landfill Gas	California	0.7	2013
American Canyon Power Plant	10392	2	Landfill Gas	California	0.7	2013
Lansing	1047	IC1	Combustion Turbine	Iowa	1.2	2014
Lansing	1047	IC2	Combustion Turbine	Iowa	1.1	2014

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Puente Hills Energy Recovery	10472	GEN2	Landfill Gas	California	1.1	2013
Al Turi	10549	3010	Landfill Gas	New York	0.8	2017
Gilman Mill	10608	GEN5	Biomass	Vermont	3.7	2014
Marina Landfill Gas	10748	U3J98	Landfill Gas	California	1	2016
Mojave Cogen	10850	GEN1	Combined Cycle	California	41	2014
Mojave Cogen	10850	GEN2	Combined Cycle	California	15.3	2014
Burlington	1104	GT1	Combustion Turbine	Iowa	15	2017
Burlington	1104	GT2	Combustion Turbine	Iowa	12.9	2017
Burlington	1104	GT3	Combustion Turbine	Iowa	14.9	2017
Burlington	1104	GT4	Combustion Turbine	Iowa	14.6	2017
Centerville	1105	1	Combustion Turbine	Iowa	2.1	2017
Centerville	1105	2	Combustion Turbine	Iowa	1.8	2017
Centerville	1105	3	Combustion Turbine	Iowa	1.9	2017
Centerville	1105	GT1	Combustion Turbine	Iowa	26	2017
Centerville	1105	GT2	Combustion Turbine	Iowa	25	2017
Alta Municipal Utilities	1121	3	Combustion Turbine	Iowa	1	2014
Bancroft	1125	4	Combustion Turbine	Iowa	0.3	2014
Indianola	1150	1	Combustion Turbine	Iowa	0.6	2012
Indianola	1150	2	Combustion Turbine	Iowa	1.3	2012
Indianola	1150	4	Combustion Turbine	Iowa	1.3	2012
La Porte	1156	2	Combustion Turbine	Iowa	1.1	2013
La Porte	1156	5	Combustion Turbine	Iowa	0.8	2013
Milford	1164	1	Combustion Turbine	Iowa	0.6	2018
Milford	1164	4	Combustion Turbine	Iowa	0.5	2018
Whittemore	1201	1	Combustion Turbine	Iowa	0.1	1990
Whittemore	1201	2	Combustion Turbine	Iowa	0.5	2008
Whittemore	1201	3	Combustion Turbine	Iowa	0.2	1991
Ashland	1259	4	Combustion Turbine	Kansas	1.1	2014
Hoisington	1286	1	Combustion Turbine	Kansas	0.2	2004
Jetmore	1292	1	Combustion Turbine	Kansas	1	2014
Jetmore	1292	2	Combustion Turbine	Kansas	0.4	2014
Jetmore	1292	5	Combustion Turbine	Kansas	1.5	2014
Jetmore	1292	6	Combustion Turbine	Kansas	1.2	2014
Jetmore	1292	7	Combustion Turbine	Kansas	0.9	2014
Minneapolis City of	1307	1	Combustion Turbine	Kansas	0.4	2009
Minneapolis City of	1307	2	Combustion Turbine	Kansas	0.5	2009
Great Bend	1334	1	Combustion Turbine	Kansas	1	2013
Great Bend	1334	2	Combustion Turbine	Kansas	1	2013
Great Bend	1334	3	Combustion Turbine	Kansas	1	2013
Great Bend	1334	4	Combustion Turbine	Kansas	1	2013
Great Bend	1334	5	Combustion Turbine	Kansas	3	2013
Haefling	1358	3	Combustion Turbine	Kentucky	12	2013
Bar Harbor	1466	1	Combustion Turbine	Maine	2	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Bar Harbor	1466	2	Combustion Turbine	Maine	2	2014
Bar Harbor	1466	3	Combustion Turbine	Maine	2	2012
Bar Harbor	1466	4	Combustion Turbine	Maine	2	2014
Brayton Point	1619	IC1	Combustion Turbine	Massachusetts	2.5	2013
Brayton Point	1619	IC2	Combustion Turbine	Massachusetts	2.5	2013
Brayton Point	1619	IC3	Combustion Turbine	Massachusetts	2.5	2013
Brayton Point	1619	IC4	Combustion Turbine	Massachusetts	2.5	2013
Cecil Lynch	167	4	Combustion Turbine	Arkansas	5	2013
High Street Station	1670	4	Combustion Turbine	Massachusetts	0.6	2006
B E Morrow	1696	A	Combustion Turbine	Michigan	12.8	2014
B E Morrow	1696	B	Combustion Turbine	Michigan	10.6	2014
Gaylord	1706	4	Combustion Turbine	Michigan	14	2013
Mabelvale	171	2	Combustion Turbine	Arkansas	14	2013
Mabelvale	171	4	Combustion Turbine	Arkansas	14	2013
Thetford	1719	5	Combustion Turbine	Michigan	15	2013
Thetford	1719	6	Combustion Turbine	Michigan	15	2013
Thetford	1719	7	Combustion Turbine	Michigan	14	2013
Thetford	1719	8	Combustion Turbine	Michigan	11.1	2013
Thetford	1719	9	Combustion Turbine	Michigan	10.6	2013
J C Weadock	1720	A	Combustion Turbine	Michigan	13	2016
J R Whiting	1723	A	Combustion Turbine	Michigan	13	2016
Connors Creek	1726	1	Combustion Turbine	Michigan	2.3	2013
Connors Creek	1726	2	Combustion Turbine	Michigan	2.3	2013
Dayton	1727	1	Combustion Turbine	Michigan	2	2013
Dayton	1727	2	Combustion Turbine	Michigan	2	2013
Dayton	1727	3	Combustion Turbine	Michigan	2	2013
Dayton	1727	4	Combustion Turbine	Michigan	2	2013
Dayton	1727	5	Combustion Turbine	Michigan	2	2013
Robert E Ritchie	173	GT1	Combustion Turbine	Arkansas	16	2013
Harbor Beach	1731	IC1	Combustion Turbine	Michigan	2	2013
Harbor Beach	1731	IC2	Combustion Turbine	Michigan	2	2013
Twin Falls	1784	1	Hydro	Michigan	0.2	2016
Twin Falls	1784	2	Hydro	Michigan	0.2	2016
Twin Falls	1784	3	Hydro	Michigan	0.9	2016
Twin Falls	1784	4	Hydro	Michigan	1	2016
Twin Falls	1784	5	Hydro	Michigan	0.8	2016
Coldwater	1819	IC4	Combustion Turbine	Michigan	2.5	2014
Coldwater	1819	IC5	Combustion Turbine	Michigan	6	2013
Mistersky	1822	6	O/G Steam	Michigan	50	2014
Mistersky	1822	GT1	Combustion Turbine	Michigan	25	2014
Hillsdale	1829	10	Combustion Turbine	Michigan	1.8	2013
Hillsdale	1829	7	Combustion Turbine	Michigan	1.5	2013
Hillsdale	1829	8	Combustion Turbine	Michigan	1.5	2013

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Hillsdale	1829	9	Combustion Turbine	Michigan	1.8	2013
Marshall	1844	IC2	Combustion Turbine	Michigan	0.9	2015
Marshall	1844	IC4	Combustion Turbine	Michigan	0.7	2015
Marshall	1844	IC5	Combustion Turbine	Michigan	1.4	2015
Hills	1889	1	Combustion Turbine	Minnesota	2	2015
Hills	1889	2	Combustion Turbine	Minnesota	1.9	2015
Key City	1914	1	Combustion Turbine	Minnesota	13	2015
Key City	1914	3	Combustion Turbine	Minnesota	13	2015
Key City	1914	4	Combustion Turbine	Minnesota	13	2015
Austin DT	1960	4	O/G Steam	Minnesota	12.2	2012
Austin DT	1960	5	Combustion Turbine	Minnesota	5.4	2013
Benson City of	1964	5	Combustion Turbine	Minnesota	0.8	2013
Benson City of	1964	6	Combustion Turbine	Minnesota	1.2	2013
Glencoe	1975	6	Combustion Turbine	Minnesota	1	2013
Moose Lake	1996	2	Combustion Turbine	Minnesota	1.1	2015
Butler	2115	3	Combustion Turbine	Missouri	0.6	2015
Fulton	2126	IC2	Combustion Turbine	Missouri	4.1	2012
Blue Valley	2132	GT1	Combustion Turbine	Missouri	50	2014
Malden	2142	1	Combustion Turbine	Missouri	1.2	2013
Monroe	2146	2	Combustion Turbine	Missouri	1.3	2013
Monroe	2146	3	Combustion Turbine	Missouri	1.1	2013
Monroe	2146	4	Combustion Turbine	Missouri	1.1	2013
Monroe	2146	6	Combustion Turbine	Missouri	2	2013
Monroe	2146	7	Combustion Turbine	Missouri	2.2	2013
Odessa	2148	3	Combustion Turbine	Missouri	1.8	2015
Odessa	2148	6	Combustion Turbine	Missouri	2.7	2015
Odessa	2148	IC4	Combustion Turbine	Missouri	0.8	2015
Trenton Diesel	2163	1	Combustion Turbine	Missouri	0.3	2013
Trenton Diesel	2163	2	Combustion Turbine	Missouri	0.3	2013
Crete	2231	1	Combustion Turbine	Nebraska	0.4	2013
Crete	2231	2	Combustion Turbine	Nebraska	1.3	2013
Crete	2231	3	Combustion Turbine	Nebraska	0.8	2013
Crete	2231	4	Combustion Turbine	Nebraska	1	2013
Crete	2231	5	Combustion Turbine	Nebraska	2.4	2013
Crete	2231	6	Combustion Turbine	Nebraska	3.3	2013
Pender	2296	5	Combustion Turbine	Nebraska	0.2	2000
Oyster Creek	2388	1	Nuclear	New Jersey	615	2019
Animas	2465	1	Combined Cycle	New Mexico	3	2015
Animas	2465	2	Combined Cycle	New Mexico	3	2015
Plant No 1	2678	1	Combustion Turbine	New York	1.5	2013
FirstEnergy Lake Shore	2838	IC1	Combustion Turbine	Ohio	2	2015
FirstEnergy Lake Shore	2838	IC2	Combustion Turbine	Ohio	2	2015
FirstEnergy R E Burger	2864	A1	Combustion Turbine	Ohio	2	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
FirstEnergy R E Burger	2864	B1	Combustion Turbine	Ohio	2	2015
FirstEnergy R E Burger	2864	B2	Combustion Turbine	Ohio	3	2015
Lebanon	2921	1	Combustion Turbine	Ohio	0.7	2012
Oberlin	2933	5	Combustion Turbine	Ohio	2	2014
St Marys	2942	7	Combustion Turbine	Ohio	12	2018
Seminole	2956	GT1	Combustion Turbine	Oklahoma	17	2015
Encina	302	GT1	Combustion Turbine	California	14	2017
Coolwater	329	30	Combined Cycle	California	99	2014
Coolwater	329	31	Combined Cycle	California	66	2014
Coolwater	329	32	Combined Cycle	California	66	2014
Coolwater	329	40	Combined Cycle	California	99	2014
Coolwater	329	41	Combined Cycle	California	66	2014
Coolwater	329	42	Combined Cycle	California	66	2014
Highmore	3343	1	Combustion Turbine	South Dakota	0.6	2014
Highmore	3343	2	Combustion Turbine	South Dakota	1.3	2014
Highmore	3343	3	Combustion Turbine	South Dakota	2.6	2014
Redfield	3347	1	Combustion Turbine	South Dakota	1.3	2014
Redfield	3347	2	Combustion Turbine	South Dakota	1.3	2014
Redfield	3347	3	Combustion Turbine	South Dakota	1.3	2014
Newman	3456	4	Combined Cycle	Texas	83	2017
Newman	3456	CT1	Combined Cycle	Texas	72	2017
Newman	3456	CT2	Combined Cycle	Texas	72	2017
Plant X	3485	1	O/G Steam	Texas	38	2020
Bountiful City	3665	IC8	Combustion Turbine	Utah	7	2014
Hydro III	3675	HY3	Hydro	Utah	0.1	2013
Northern Neck	3800	GT1	Combustion Turbine	Virginia	12	2017
Northern Neck	3800	GT2	Combustion Turbine	Virginia	11	2017
Northern Neck	3800	GT3	Combustion Turbine	Virginia	12	2017
Northern Neck	3800	GT4	Combustion Turbine	Virginia	12	2017
Chesapeake	3803	6	Combustion Turbine	Virginia	12	2019
Chesapeake	3803	GT1	Combustion Turbine	Virginia	15	2019
Chesapeake	3803	GT2	Combustion Turbine	Virginia	12	2019
Chesapeake	3803	GT4	Combustion Turbine	Virginia	12	2019
Transalta Centralia Generation	3845	30	Combined Cycle	Washington	44	2013
Transalta Centralia Generation	3845	40	Combined Cycle	Washington	44	2013
Transalta Centralia Generation	3845	50	Combined Cycle	Washington	44	2013
Transalta Centralia Generation	3845	60	Combined Cycle	Washington	44	2013
Transalta Centralia Generation	3845	70	Combined Cycle	Washington	80	2013
Snoqualmie	3860	5	Hydro	Washington	6.5	2010
Nine Mile	3869	2	Hydro	Washington	6.9	2012
Rock River	4057	3	Combustion Turbine	Wisconsin	24.5	2019
Rock River	4057	4	Combustion Turbine	Wisconsin	15.7	2019
Rock River	4057	5	Combustion Turbine	Wisconsin	53	2019

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Rock River	4057	6	Combustion Turbine	Wisconsin	53	2019
Sheepskin	4059	1	Combustion Turbine	Wisconsin	36	2019
Boulder Canyon Hydro	466	1	Hydro	Colorado	10	2012
Delta	496	1	Combustion Turbine	Colorado	0.8	2014
Delta	496	2	Combustion Turbine	Colorado	0.4	2014
Delta	496	3	Combustion Turbine	Colorado	0.1	2014
Delta	496	4	Combustion Turbine	Colorado	0.1	2014
Delta	496	5	Combustion Turbine	Colorado	0.1	2014
Delta	496	6	Combustion Turbine	Colorado	1.2	2014
Delta	496	7	Combustion Turbine	Colorado	1.8	2014
Altamont Midway Ltd	50001	WTGS	Wind	California	10.9	2017
Sierra Power	50068	WEST	Biomass	California	7	2014
Marcus Hook Refinery Cogen	50074	GEN1	Combustion Turbine	Pennsylvania	50	2019
EQ Waste Energy Services	50077	CAT1	Landfill Gas	Michigan	0.5	2017
EQ Waste Energy Services	50077	CAT2	Landfill Gas	Michigan	0.3	2017
EQ Waste Energy Services	50077	CAT3	Landfill Gas	Michigan	0.3	2017
EQ Waste Energy Services	50077	CAT4	Landfill Gas	Michigan	0.3	2017
Ground Water Pumping Station	50105	GPS1	Hydro	Oregon	0.9	2015
Ground Water Pumping Station	50105	GPS2	Hydro	Oregon	0.9	2015
Ground Water Pumping Station	50105	GPS3	Hydro	Oregon	0.9	2015
Ground Water Pumping Station	50105	GPS4	Hydro	Oregon	0.9	2015
Ground Water Pumping Station	50105	GPS5	Hydro	Oregon	0.9	2015
Ground Water Pumping Station	50105	GPS6	Hydro	Oregon	0.9	2015
Dow St Charles Operations	50152	CTG	Combined Cycle	Louisiana	10	2009
Dow St Charles Operations	50152	IGT	Combined Cycle	Louisiana	9.6	2009
Wheelabrator Lassen	50298	GEN1	Combustion Turbine	California	43	2013
Oceanside Energy	50348	OS3	Landfill Gas	New York	0.6	2015
Ridgewood Providence Power	50365	GEN1	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN2	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN3	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN4	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN5	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN6	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN7	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN8	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	GEN9	Landfill Gas	Rhode Island	1.7	2013
Ridgewood Providence Power	50365	PHI1	Landfill Gas	Rhode Island	1.2	2013
Ridgewood Providence Power	50365	PHI2	Landfill Gas	Rhode Island	1.2	2013
Julesburg	504	2	Combustion Turbine	Colorado	0.7	2002
Bayonne Plant Holding LLC	50497	GTG1	Combined Cycle	New Jersey	40	2018
Bayonne Plant Holding LLC	50497	GTG2	Combined Cycle	New Jersey	40	2018
Bayonne Plant Holding LLC	50497	GTG3	Combined Cycle	New Jersey	40	2018
Bayonne Plant Holding LLC	50497	STG1	Combined Cycle	New Jersey	40	2018

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Santa Clara (85C)	50534	WGNS	Wind	California	18	2017
Thermo Power & Electric	50676	GEN1	Combined Cycle	Colorado	30	2013
Thermo Power & Electric	50676	GEN2	Combined Cycle	Colorado	30	2013
Thermo Power & Electric	50676	GEN3	Combined Cycle	Colorado	8	2013
Ormesa IH	50762	OE13	Geothermal	California	1	2008
Ormesa IH	50762	OE16	Geothermal	California	1	2012
Ormesa IH	50762	OE23	Geothermal	California	0.6	2008
Ormesa IH	50762	OE26	Geothermal	California	0.6	2012
Ormesa I	50766	OE11	Geothermal	California	0.7	2003
Ormesa I	50766	OE12	Geothermal	California	0.7	2003
Ormesa I	50766	OE14	Geothermal	California	0.7	2003
Ormesa I	50766	OE15	Geothermal	California	0.7	2003
Ormesa I	50766	OE21	Geothermal	California	0.9	2003
Ormesa I	50766	OE22	Geothermal	California	0.9	2003
Ormesa I	50766	OE24	Geothermal	California	0.9	2003
Ormesa I	50766	OE25	Geothermal	California	0.9	2003
Altech	50818	GEN1	Wind	California	10.5	2017
Solar	529	1	Solar PV	California	1	2013
Solar	529	2	Solar PV	California	1	2013
Port Edwards Mill	54103	GEN4	O/G Steam	Wisconsin	1.8	2013
Port Edwards Mill	54103	GEN7	O/G Steam	Wisconsin	4.7	2013
Southbridge Energy Center LLC	54373	ENG1	Combustion Turbine	Massachusetts	1.3	2011
Southbridge Energy Center LLC	54373	ENG2	Combustion Turbine	Massachusetts	1.3	2008
Southbridge Energy Center LLC	54373	ENG3	Combustion Turbine	Massachusetts	1.3	2009
Southbridge Energy Center LLC	54373	ENG4	Combustion Turbine	Massachusetts	1.3	2010
Southbridge Energy Center LLC	54373	ENG5	Combustion Turbine	Massachusetts	1.3	2011
Capitol Heat and Power	54406	P31	Combustion Turbine	Wisconsin	1	2011
Capitol Heat and Power	54406	P32	Combustion Turbine	Wisconsin	1	2011
Entenmanns Energy Center	54541	1	Combustion Turbine	New York	1.3	2014
Entenmanns Energy Center	54541	2	Combustion Turbine	New York	1.3	2014
Entenmanns Energy Center	54541	3	Combustion Turbine	New York	1.3	2014
Entenmanns Energy Center	54541	4	Combustion Turbine	New York	1.3	2014
West Texas Windplant	54966	WIND	Wind	Texas	30	2014
Four Hills Nashua Landfill	55006	UNT1	Landfill Gas	New Hampshire	2	2014
Escondido Power Plant	55538	GEN1	Combustion Turbine	California	34	2013
Richmond Electric	55587	1	Landfill Gas	Virginia	0.9	2013
Richmond Electric	55587	2	Landfill Gas	Virginia	0.9	2013
Richmond Electric	55587	3	Landfill Gas	Virginia	0.9	2013
Fall River Electric	55589	1	Landfill Gas	Massachusetts	0.9	2012
Fall River Electric	55589	2	Landfill Gas	Massachusetts	0.9	2012
Roxana Resource Recovery	55759	RX1	Landfill Gas	Illinois	0.9	2015
Roxana Resource Recovery	55759	RX2	Landfill Gas	Illinois	0.9	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Roxana Resource Recovery	55759	RX3	Landfill Gas	Illinois	0.9	2015
Roxana Resource Recovery	55759	RX4	Landfill Gas	Illinois	0.9	2015
Brickyard Energy Partners LLC	55762	BR1	Landfill Gas	Illinois	0.9	2015
Brickyard Energy Partners LLC	55762	BR2	Landfill Gas	Illinois	0.9	2015
Brickyard Energy Partners LLC	55762	BR3	Landfill Gas	Illinois	0.9	2015
Upper Rock Energy Partners LLC	55764	UR1	Landfill Gas	Illinois	0.9	2015
Upper Rock Energy Partners LLC	55764	UR2	Landfill Gas	Illinois	0.9	2015
Upper Rock Energy Partners LLC	55764	UR3	Landfill Gas	Illinois	0.9	2015
Upper Rock Energy Partners LLC	55764	UR4	Landfill Gas	Illinois	0.9	2015
Gates Peaker	55875	GEN1	Combustion Turbine	California	33	2013
Hawkeye Energy Greenport LLC	55969	U-01	Combustion Turbine	New York	49	2018
Harrisonburg Power Plant	56006	ST-1	O/G Steam	Virginia	2.7	2015
BNWRD	56176	1	Combustion Turbine	Illinois	1.8	2014
Patterson Pass	56213	WND1	Wind	California	8.1	2014
Patterson Pass	56213	WND2	Wind	California	13.8	2014
Danville New Design Plant	56363	GEN 1	Combustion Turbine	Virginia	1.2	2013
Danville Kentuck Road Plant	56364	GEN 1	Combustion Turbine	Virginia	1.2	2013
Danville Westover Plant	56365	GEN1	Combustion Turbine	Virginia	1.2	2013
Domain Integrated Energy System	56373	DOMG1	Combustion Turbine	Texas	5	2013
Pennsauken Landfill	56511	GEN3	Landfill Gas	New Jersey	0.9	2012
Bradley Gas Recovery	56533	GEN1	Landfill Gas	California	1.3	2013
Bradley Gas Recovery	56533	GEN2	Landfill Gas	California	1.3	2013
Bradley Gas Recovery	56533	GEN3	Landfill Gas	California	1.3	2013
Bradley Gas Recovery	56533	GEN4	Landfill Gas	California	1.3	2013
Bradley Gas Recovery	56533	GEN5	Landfill Gas	California	1.3	2013
Turlock Irrigation District Fuel Cell	56631	TFC	Fuel Cell	California	1.1	2012
Winnebago Energy Center LLC	56780	1	Landfill Gas	Illinois	1.6	2014
Winnebago Energy Center LLC	56780	2	Landfill Gas	Illinois	1.6	2014
Winnebago Energy Center LLC	56780	3	Landfill Gas	Illinois	1.6	2014
Winnebago Energy Center LLC	56780	4	Landfill Gas	Illinois	1.6	2014
Roberts Road Power Plant	56867	1	Landfill Gas	Georgia	1.4	2012
Ausra Kimberlina Solar Generation	56943	1	Solar Thermal	California	3.5	2014
Pacific Cruise Ship Terminals Berth 93	57309	1	Solar PV	California	1.1	2014
Questa Solar Facility	57369	QST	Solar PV	New Mexico	1	2019
GE 1 6 100 Prototype	57566	1.6PR	Wind	California	1.6	2013
Sheraton SD East Tower	57592	45	Fuel Cell	California	0.3	2014
Sheraton SD East Tower	57592	47	Fuel Cell	California	0.3	2014
Sheraton SD East Tower	57592	50	Fuel Cell	California	0.3	2014
Sheraton SD East Tower	57592	51	Fuel Cell	California	0.3	2014
Auburn LFG Energy Facility	57636	2	Landfill Gas	New York	1.1	2014
Turkey Point	621	IC1	Combustion Turbine	Florida	2.4	2009
Turkey Point	621	IC2	Combustion Turbine	Florida	2.4	2009
Turkey Point	621	IC3	Combustion Turbine	Florida	2.4	2009

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Turkey Point	621	IC4	Combustion Turbine	Florida	2.4	2009
Turkey Point	621	IC5	Combustion Turbine	Florida	2.4	2009
Putnam	6246	1GT1	Combined Cycle	Florida	73	2014
Putnam	6246	1GT2	Combined Cycle	Florida	73	2014
Putnam	6246	1ST	Combined Cycle	Florida	103	2014
Putnam	6246	2GT1	Combined Cycle	Florida	73	2014
Putnam	6246	2GT2	Combined Cycle	Florida	73	2014
Putnam	6246	2ST	Combined Cycle	Florida	103	2014
Cline Falls	6482	1	Hydro	Oregon	1.1	2010
Brunswick	6510	1	Combustion Turbine	Nevada	2	2019
Brunswick	6510	2	Combustion Turbine	Nevada	2	2019
Brunswick	6510	3	Combustion Turbine	Nevada	2	2019
Gabbs	6514	1	Combustion Turbine	Nevada	2.7	2013
Gabbs	6514	2	Combustion Turbine	Nevada	2.7	2013
Waverly Municipal Electric North Plant	6554	5	Combustion Turbine	Iowa	1.2	2013
Waverly Municipal Electric North Plant	6554	6	Combustion Turbine	Iowa	1.3	2013
South Norwalk Electric	6598	6	Combustion Turbine	Connecticut	1.1	2014
John R Kelly	664	GT1	Combustion Turbine	Florida	14	2013
John R Kelly	664	GT2	Combustion Turbine	Florida	14	2013
John R Kelly	664	GT3	Combustion Turbine	Florida	14	2013
Smith Street	679	10	Combustion Turbine	Florida	2	2013
Smith Street	679	11	Combustion Turbine	Florida	2	2013
Smith Street	679	3	Combustion Turbine	Florida	0.8	2013
Smith Street	679	4	Combustion Turbine	Florida	1	2013
Smith Street	679	6	Combustion Turbine	Florida	1.8	2013
Smith Street	679	7	Combustion Turbine	Florida	1.8	2013
Smith Street	679	8	Combustion Turbine	Florida	1.1	2013
Smith Street	679	9	Combustion Turbine	Florida	2	2013
W E Swoope	681	2	Combustion Turbine	Florida	0.9	2013
W E Swoope	681	3	Combustion Turbine	Florida	2	2013
W E Swoope	681	4	Combustion Turbine	Florida	2.2	2013
St Cloud	685	1	Combustion Turbine	Florida	2	2008
St Cloud	685	2	Combustion Turbine	Florida	5	2008
St Cloud	685	3	Combustion Turbine	Florida	2	2008
St Cloud	685	4	Combustion Turbine	Florida	3	2008
St Cloud	685	6	Combustion Turbine	Florida	3	2008
St Cloud	685	7	Combustion Turbine	Florida	6	2008
St Cloud	685	8	Combustion Turbine	Florida	6	2008
Arvah B Hopkins	688	GT2	Combustion Turbine	Florida	24	2017
Gravel Neck	7032	1	Combustion Turbine	Virginia	12	2019
Gravel Neck	7032	2	Combustion Turbine	Virginia	16	2019
Grinnell	7137	1	Combustion Turbine	Iowa	23.8	2017
Grinnell	7137	2	Combustion Turbine	Iowa	23.8	2017

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San Geronio 1	7148	1	Hydro	California	1.5	2001
Girvin Landfill	7705	1	Landfill Gas	Florida	3	2014
SECC	7730	1	Combustion Turbine	Colorado	1.1	2014
Snoqualmie 2	7867	6	Hydro	Washington	13.9	2010
Glenmore Turbines	7882	1	Wind	Wisconsin	0.1	2012
Parkside	7888	2	Combustion Turbine	Illinois	1.8	2014
Parkside	7888	3	Combustion Turbine	Illinois	1.8	2014
Parkside	7888	4	Combustion Turbine	Illinois	1.8	2014
Gillum	7891	1	Combustion Turbine	Illinois	1.8	2014
Gillum	7891	2	Combustion Turbine	Illinois	1.8	2014
Ponnequin	7937	30	Wind	Colorado	9.8	2015
Ponnequin	7937	8	Wind	Colorado	15.5	2015
Carmi	937	5	Combustion Turbine	Illinois	0.5	2013
Rantoul	958	1	Combustion Turbine	Illinois	0.7	2013
Harding Street	990	3	O/G Steam	Indiana	35	2013
Harding Street	990	GT3	Combustion Turbine	Indiana	20	2013
Eagle Valley	991	2	O/G Steam	Indiana	39	2013
Eagle Valley	991	IC1	Combustion Turbine	Indiana	3	2016
Eagle Valley	991	ST1	O/G Steam	Indiana	39	2013
NRG Energy Center Dover	10030	COGEN1	Combined Cycle	Delaware	16	2013
Murray Gill	1242	1	O/G Steam	Kansas	40	2014
Murray Gill	1242	2	O/G Steam	Kansas	56	2014
Lieberman	1417	1	O/G Steam	Louisiana	25	2014
Brayton Point	1619	4	O/G Steam	Massachusetts	435	2017
Cecil Lynch	167	2	O/G Steam	Arkansas	60	2013
Cecil Lynch	167	3	O/G Steam	Arkansas	110	2013
Harvey Couch	169	2	O/G Steam	Arkansas	123	2013
Lake Catherine	170	1	O/G Steam	Arkansas	47	2013
Lake Catherine	170	2	O/G Steam	Arkansas	45	2013
Lake Catherine	170	3	O/G Steam	Arkansas	96	2013
Robert E Ritchie	173	2	O/G Steam	Arkansas	544	2013
Mistersky	1822	7	O/G Steam	Michigan	60	2014
Fox Lake	1888	3	O/G Steam	Minnesota	84	2017
Red Wing	1926	1	Municipal Solid Waste	Minnesota	9	2017
Red Wing	1926	2	Municipal Solid Waste	Minnesota	9	2017
Austin DT	1960	3	O/G Steam	Minnesota	5.9	2012
Rex Brown	2053	1B	O/G Steam	Mississippi	7.5	2011
Wright	2063	W1	O/G Steam	Mississippi	9.4	2014
Wright	2063	W3	O/G Steam	Mississippi	9.4	2014
Fort Churchill	2330	1	O/G Steam	Nevada	113	2018
Mustang	2953	1	O/G Steam	Oklahoma	50	2017
Mustang	2953	2	O/G Steam	Oklahoma	51	2017

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Mustang	2953	3	O/G Steam	Oklahoma	113	2017
Mustang	2953	4	O/G Steam	Oklahoma	253	2017
Boomer Lake Station	3000	1	O/G Steam	Oklahoma	11.9	2016
Boomer Lake Station	3000	2	O/G Steam	Oklahoma	11.9	2016
Encina	302	1	O/G Steam	California	106	2017
Encina	302	2	O/G Steam	California	104	2017
Encina	302	3	O/G Steam	California	110	2017
Encina	302	4	O/G Steam	California	300	2017
Encina	302	5	O/G Steam	California	330	2017
Coolwater	329	1	O/G Steam	California	65	2014
Coolwater	329	2	O/G Steam	California	81	2014
El Segundo Power	330	4	O/G Steam	California	325	2015
Newman	3456	1	O/G Steam	Texas	74	2019
Newman	3456	3	O/G Steam	Texas	102	2019
Moore County	3483	3	O/G Steam	Texas	46	2013
Nichols	3484	141B	O/G Steam	Texas	107	2020
Nichols	3484	142B	O/G Steam	Texas	106	2020
Leon Creek	3609	3	O/G Steam	Texas	60	2013
Leon Creek	3609	4	O/G Steam	Texas	95	2013
North Texas	3627	1	O/G Steam	Texas	16.5	2014
North Texas	3627	2	O/G Steam	Texas	16.5	2014
Sam Rayburn	3631	3	O/G Steam	Texas	22	2012
Broadway	420	B3	O/G Steam	California	71	2016
Covanta Wallingford Energy	50664	B101	Municipal Solid Waste	Connecticut	2.8	2015
Covanta Wallingford Energy	50664	B102	Municipal Solid Waste	Connecticut	2.8	2015
Covanta Wallingford Energy	50664	B103	Municipal Solid Waste	Connecticut	2.8	2015
McKee Run	599	1	O/G Steam	Delaware	17	2017
McKee Run	599	2	O/G Steam	Delaware	17	2017
Suwannee River	638	1	O/G Steam	Florida	30	2018
Suwannee River	638	2	O/G Steam	Florida	30	2018
Suwannee River	638	3	O/G Steam	Florida	71	2018
Vero Beach Municipal Power Plant	693	3	O/G Steam	Florida	33	2014
Vero Beach Municipal Power Plant	693	4	O/G Steam	Florida	56	2015
Howard Down	2434	10	O/G Steam	New Jersey	23	2010
Lake Creek	3502	ST1	O/G Steam	Texas	87	2010
Lake Creek	3502	ST2	O/G Steam	Texas	230	2010
Mount Tom	1606	1	Coal Steam	Massachusetts	144	2014
Shelby Municipal Light Plant	2943	3	Coal Steam	Ohio	5	2012
Yates	728	4	Coal Steam	Georgia	133	2015
Yates	728	5	Coal Steam	Georgia	135	2015
Fair Station	1218	1	Coal Steam	Iowa	23	2013
Fair Station	1218	2	Coal Steam	Iowa	41	2013

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Dale	1385	1	Coal Steam	Kentucky	23	2015
Dale	1385	2	Coal Steam	Kentucky	23	2015
Dale	1385	3	Coal Steam	Kentucky	74	2016
Dale	1385	4	Coal Steam	Kentucky	75	2016
James De Young	1830	5	Coal Steam	Michigan	27	2016
Eckert Station	1831	1	Coal Steam	Michigan	35	2016
Eckert Station	1831	2	Coal Steam	Michigan	36	2016
Eckert Station	1831	3	Coal Steam	Michigan	34	2016
Austin Northeast	1961	NEPP	Coal Steam	Minnesota	29	2015
Silver Lake	2008	1	Coal Steam	Minnesota	9.6	2015
Silver Lake	2008	2	Coal Steam	Minnesota	14.3	2015
Silver Lake	2008	3	Coal Steam	Minnesota	23.5	2015
Silver Lake	2008	4	Coal Steam	Minnesota	57	2015
Montrose	2080	1	Coal Steam	Missouri	169	2016
Four Corners	2442	1	Coal Steam	New Mexico	170	2013
Four Corners	2442	2	Coal Steam	New Mexico	170	2013
Four Corners	2442	3	Coal Steam	New Mexico	220	2013
Sunbury Generation LP	3152	1A	Coal Steam	Pennsylvania	41	2014
Sunbury Generation LP	3152	1B	Coal Steam	Pennsylvania	41	2014
Sunbury Generation LP	3152	2A	Coal Steam	Pennsylvania	41	2014
Sunbury Generation LP	3152	2B	Coal Steam	Pennsylvania	41	2014
Sunbury Generation LP	3152	3	Coal Steam	Pennsylvania	90	2014
Sunbury Generation LP	3152	4	Coal Steam	Pennsylvania	128	2014
Yorktown	3809	2	Coal Steam	Virginia	164	2017
Colbert	47	1	Coal Steam	Alabama	178	2016
Colbert	47	2	Coal Steam	Alabama	178	2016
Colbert	47	3	Coal Steam	Alabama	178	2016
Colbert	47	4	Coal Steam	Alabama	178	2016
Colbert	47	5	Coal Steam	Alabama	472	2016
Lamar Plant	508	4	Coal Steam	Colorado	40	1989
Piney Creek Project	54144	BRBR1	Coal Steam	Pennsylvania	32	2014
Scholz	642	1	Coal Steam	Florida	46	2015
Scholz	642	2	Coal Steam	Florida	46	2015
Mitchell	727	3	Coal Steam	Georgia	155	2015
Yates	728	Y1BR	Coal Steam	Georgia	97	2015
Yates	728	Y2BR	Coal Steam	Georgia	103	2015
Yates	728	Y3BR	Coal Steam	Georgia	111	2015
Kraft	733	1	Coal Steam	Georgia	48	2016
Kraft	733	2	Coal Steam	Georgia	52	2016
Eagle Valley	991	6	Coal Steam	Indiana	99	2016
B C Cobb	1695	4	Coal Steam	Michigan	156	2016
B C Cobb	1695	5	Coal Steam	Michigan	156	2016
J C Weadock	1720	7	Coal Steam	Michigan	155	2016

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
J C Weadock	1720	8	Coal Steam	Michigan	151	2016
J R Whiting	1723	1	Coal Steam	Michigan	97	2016
J R Whiting	1723	2	Coal Steam	Michigan	101	2016
J R Whiting	1723	3	Coal Steam	Michigan	124	2016
Alma	4140	B4	Coal Steam	Wisconsin	48	2014
Alma	4140	B5	Coal Steam	Wisconsin	72	2014
Harbor Beach	1731	1	Coal Steam	Michigan	95	2013
AES Westover	2526	13	Coal Steam	New York	84	2012
Harlee Branch	709	3	Coal Steam	Georgia	509	2015
Harlee Branch	709	4	Coal Steam	Georgia	507	2015
Kraft	733	3	Coal Steam	Georgia	101	2016
Edgewater	4050	3	Coal Steam	Wisconsin	70	2015
Welsh	6139	2	Coal Steam	Texas	528	2016
Dolphus M Grainger	3317	1	Coal Steam	South Carolina	83	2012
Dolphus M Grainger	3317	2	Coal Steam	South Carolina	83	2012
Taconite Harbor Energy Center	10075	3	Coal Steam	Minnesota	76	2015
AES Thames	10675	A	Coal Steam	Connecticut	90	2011
AES Thames	10675	B	Coal Steam	Connecticut	90	2011
Prairie Creek	1073	2	Coal Steam	Iowa	2.1	2010
Chamois	2169	1	Coal Steam	Missouri	16	2013
Chamois	2169	2	Coal Steam	Missouri	47	2013
Reid Gardner	2324	1	Coal Steam	Nevada	100	2014
Reid Gardner	2324	2	Coal Steam	Nevada	100	2014
Reid Gardner	2324	3	Coal Steam	Nevada	98	2014
B L England	2378	1	Coal Steam	New Jersey	113	2014
Hatfields Ferry Power Station	3179	1	Coal Steam	Pennsylvania	506	2013
Hatfields Ferry Power Station	3179	2	Coal Steam	Pennsylvania	506	2013
Hatfields Ferry Power Station	3179	3	Coal Steam	Pennsylvania	506	2013
FirstEnergy Mitchell Power Station	3181	33	Coal Steam	Pennsylvania	278	2013
Canadys Steam	3280	CAN2	Coal Steam	South Carolina	115	2013
Canadys Steam	3280	CAN3	Coal Steam	South Carolina	180	2013
Pulliam	4072	5	Coal Steam	Wisconsin	52	2015
Pulliam	4072	6	Coal Steam	Wisconsin	71	2015
Weston	4078	1	Coal Steam	Wisconsin	58	2015
Alma	4140	B1	Coal Steam	Wisconsin	17.4	2012
Alma	4140	B2	Coal Steam	Wisconsin	17.4	2013
Alma	4140	B3	Coal Steam	Wisconsin	20.9	2013
Smart Papers LLC	50247	B010	Coal Steam	Ohio	26	2012
Smart Papers LLC	50247	B020	Coal Steam	Ohio	15.1	2012
Smart Papers LLC	50247	B022	Coal Steam	Ohio	4.5	2012
Trigen Syracuse Energy	50651	2	Coal Steam	New York	24.6	2013
Trigen Syracuse Energy	50651	3	Coal Steam	New York	24.6	2013
Trigen Syracuse Energy	50651	4	Coal Steam	New York	12.3	2013

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Trigen Syracuse Energy	50651	5	Coal Steam	New York	12.3	2013
Somerset Station	1613	6	Coal Steam	Massachusetts	109	2012
Elrama Power Plant	3098	1	Coal Steam	Pennsylvania	93	2014
Elrama Power Plant	3098	2	Coal Steam	Pennsylvania	93	2014
Elrama Power Plant	3098	3	Coal Steam	Pennsylvania	103	2014
Elrama Power Plant	3098	4	Coal Steam	Pennsylvania	171	2014
ACE Cogeneration Facility	10002	CFB	Coal Steam	California	101	2014
R Gallagher	1008	1	Coal Steam	Indiana	140	2012
R Gallagher	1008	3	Coal Steam	Indiana	140	2012
East Third Street Power Plant	10367	CB1302	Coal Steam	California	18.7	2012
Loveridge Road Power Plant	10368	CB1302	Coal Steam	California	18	2012
Wilbur West Power Plant	10369	CB1302	Coal Steam	California	18.2	2012
Wilbur East Power Plant	10370	CB1302	Coal Steam	California	18.1	2012
Nichols Road Power Plant	10371	CB1302	Coal Steam	California	17.8	2012
Hanford	10373	CB1302	Coal Steam	California	25	2012
Lansing	1047	2	Coal Steam	Iowa	8.4	2010
Lansing	1047	3	Coal Steam	Iowa	21	2013
Pella	1175	6	Coal Steam	Iowa	11.5	2012
Pella	1175	7	Coal Steam	Iowa	11.5	2012
Pella	1175	8	Coal Steam	Iowa	11.5	2012
Big Sandy	1353	BSU2	Coal Steam	Kentucky	800	2015
Green River	1357	4	Coal Steam	Kentucky	68	2016
Green River	1357	5	Coal Steam	Kentucky	95	2016
Tyrone	1361	5	Coal Steam	Kentucky	71	2013
Cane Run	1363	4	Coal Steam	Kentucky	155	2015
Cane Run	1363	5	Coal Steam	Kentucky	168	2015
Cane Run	1363	6	Coal Steam	Kentucky	240	2015
FirstEnergy R Paul Smith Power Station	1570	11	Coal Steam	Maryland	87	2012
FirstEnergy R Paul Smith Power Station	1570	9	Coal Steam	Maryland	28	2012
Marysville	1732	10	Coal Steam	Michigan	42	2011
Marysville	1732	11	Coal Steam	Michigan	42	2011
Marysville	1732	12	Coal Steam	Michigan	42	2011
Marysville	1732	9	Coal Steam	Michigan	42	2011
Deepwater	2384	8	Coal Steam	New Jersey	81	2014
Cape Fear	2708	5	Coal Steam	North Carolina	144	2012
Cape Fear	2708	6	Coal Steam	North Carolina	172	2012
L V Sutton	2713	1	Coal Steam	North Carolina	97	2013
L V Sutton	2713	2	Coal Steam	North Carolina	104	2013
L V Sutton	2713	3	Coal Steam	North Carolina	389	2013
Walter C Beckjord	2830	1	Coal Steam	Ohio	94	2012
Walter C Beckjord	2830	2	Coal Steam	Ohio	94	2013
Walter C Beckjord	2830	3	Coal Steam	Ohio	128	2013
Walter C Beckjord	2830	4	Coal Steam	Ohio	150	2014

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Walter C Beckjord	2830	5	Coal Steam	Ohio	238	2014
Walter C Beckjord	2830	6	Coal Steam	Ohio	414	2014
Miami Fort	2832	6	Coal Steam	Ohio	163	2015
FirstEnergy Ashtabula	2835	7	Coal Steam	Ohio	244	2015
FirstEnergy Eastlake	2837	1	Coal Steam	Ohio	132	2015
FirstEnergy Eastlake	2837	2	Coal Steam	Ohio	132	2015
FirstEnergy Eastlake	2837	3	Coal Steam	Ohio	132	2015
FirstEnergy Eastlake	2837	4	Coal Steam	Ohio	240	2012
FirstEnergy Eastlake	2837	5	Coal Steam	Ohio	597	2012
FirstEnergy Lake Shore	2838	18	Coal Steam	Ohio	245	2015
Conesville	2840	3	Coal Steam	Ohio	165	2012
Picway	2843	9	Coal Steam	Ohio	95	2015
O H Hutchings	2848	H-1	Coal Steam	Ohio	58	2015
O H Hutchings	2848	H-2	Coal Steam	Ohio	55	2015
O H Hutchings	2848	H-3	Coal Steam	Ohio	63	2015
O H Hutchings	2848	H-4	Coal Steam	Ohio	63	2013
O H Hutchings	2848	H-5	Coal Steam	Ohio	63	2015
O H Hutchings	2848	H-6	Coal Steam	Ohio	63	2015
Niles	2861	1	Coal Steam	Ohio	108	2012
Niles	2861	2	Coal Steam	Ohio	108	2012
FirstEnergy R E Burger	2864	5	Coal Steam	Ohio	47	2012
Muskingum River	2872	1	Coal Steam	Ohio	190	2015
Muskingum River	2872	2	Coal Steam	Ohio	190	2015
Muskingum River	2872	3	Coal Steam	Ohio	205	2015
Muskingum River	2872	4	Coal Steam	Ohio	205	2015
FirstEnergy Bay Shore	2878	2	Coal Steam	Ohio	138	2012
FirstEnergy Bay Shore	2878	3	Coal Steam	Ohio	142	2012
FirstEnergy Bay Shore	2878	4	Coal Steam	Ohio	215	2012
Shelby Municipal Light Plant	2943	1	Coal Steam	Ohio	12	2013
Shelby Municipal Light Plant	2943	2	Coal Steam	Ohio	12	2013
Titus	3115	1	Coal Steam	Pennsylvania	81	2013
Titus	3115	2	Coal Steam	Pennsylvania	81	2013
Titus	3115	3	Coal Steam	Pennsylvania	81	2013
FirstEnergy Armstrong Power Station	3178	1	Coal Steam	Pennsylvania	172	2012
FirstEnergy Armstrong Power Station	3178	2	Coal Steam	Pennsylvania	172	2012
H B Robinson	3251	1	Coal Steam	South Carolina	177	2012
Canadys Steam	3280	CAN1	Coal Steam	South Carolina	105	2012
Ben French	3325	1	Coal Steam	South Dakota	21.6	2014
John Sevier	3405	3	Coal Steam	Tennessee	176	2012
John Sevier	3405	4	Coal Steam	Tennessee	176	2012
Watts Bar Fossil	3419	A	Coal Steam	Tennessee	56	2011
Watts Bar Fossil	3419	B	Coal Steam	Tennessee	56	2011
Watts Bar Fossil	3419	C	Coal Steam	Tennessee	56	2011

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Watts Bar Fossil	3419	D	Coal Steam	Tennessee	56	2011
Carbon	3644	1	Coal Steam	Utah	67	2015
Carbon	3644	2	Coal Steam	Utah	105	2015
Glen Lyn	3776	51	Coal Steam	Virginia	45	2015
Glen Lyn	3776	52	Coal Steam	Virginia	45	2015
Glen Lyn	3776	6	Coal Steam	Virginia	235	2015
Chesapeake	3803	1	Coal Steam	Virginia	111	2015
Chesapeake	3803	2	Coal Steam	Virginia	111	2015
Kanawha River	3936	1	Coal Steam	West Virginia	200	2015
Kanawha River	3936	2	Coal Steam	West Virginia	200	2015
Philip Sporn	3938	11	Coal Steam	West Virginia	145	2015
Philip Sporn	3938	21	Coal Steam	West Virginia	145	2015
Philip Sporn	3938	31	Coal Steam	West Virginia	145	2015
Philip Sporn	3938	41	Coal Steam	West Virginia	145	2015
Philip Sporn	3938	51	Coal Steam	West Virginia	440	2012
FirstEnergy Albright	3942	1	Coal Steam	West Virginia	73	2012
FirstEnergy Albright	3942	2	Coal Steam	West Virginia	73	2012
FirstEnergy Albright	3942	3	Coal Steam	West Virginia	137	2012
FirstEnergy Rivesville	3945	7	Coal Steam	West Virginia	37	2012
FirstEnergy Rivesville	3945	8	Coal Steam	West Virginia	88	2012
FirstEnergy Willow Island	3946	1	Coal Steam	West Virginia	54	2012
FirstEnergy Willow Island	3946	2	Coal Steam	West Virginia	181	2012
Kammer	3947	1	Coal Steam	West Virginia	200	2015
Kammer	3947	2	Coal Steam	West Virginia	200	2015
Kammer	3947	3	Coal Steam	West Virginia	200	2015
Nelson Dewey	4054	1	Coal Steam	Wisconsin	115	2015
Nelson Dewey	4054	2	Coal Steam	Wisconsin	111	2015
Neil Simpson	4150	5	Coal Steam	Wyoming	14.6	2014
Osage	4151	1	Coal Steam	Wyoming	10.1	2014
Osage	4151	2	Coal Steam	Wyoming	10.1	2014
Osage	4151	3	Coal Steam	Wyoming	10.1	2014
W N Clark	462	55	Coal Steam	Colorado	17.6	2013
W N Clark	462	59	Coal Steam	Colorado	24.9	2013
Cherokee	469	3	Coal Steam	Colorado	152	2015
Alloy Steam Station	50012	BLR4	Coal Steam	West Virginia	38	2007
Indian River Generating Station	594	1	Coal Steam	Delaware	89	2013
Indian River Generating Station	594	2	Coal Steam	Delaware	89	2013
Pearl Station	6238	1A	Coal Steam	Illinois	22.2	2013
North Branch	7537	A	Coal Steam	West Virginia	37	2012
North Branch	7537	B	Coal Steam	West Virginia	37	2014
Hutsonville	863	05	Coal Steam	Illinois	75	2011
Hutsonville	863	06	Coal Steam	Illinois	76	2011
Meredosia	864	01	Coal Steam	Illinois	26	2010

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Meredosia	864	02	Coal Steam	Illinois	26	2010
Meredosia	864	03	Coal Steam	Illinois	26	2010
Meredosia	864	04	Coal Steam	Illinois	26	2010
Meredosia	864	05	Coal Steam	Illinois	203	2010
Crawford	867	7	Coal Steam	Illinois	213	2012
Crawford	867	8	Coal Steam	Illinois	319	2012
Fisk Street	886	19	Coal Steam	Illinois	326	2012
Vermilion	897	1	Coal Steam	Illinois	62	2011
Vermilion	897	2	Coal Steam	Illinois	99	2011
Tanners Creek	988	U1	Coal Steam	Indiana	145	2015
Tanners Creek	988	U2	Coal Steam	Indiana	145	2015
Tanners Creek	988	U3	Coal Steam	Indiana	200	2015
Jefferies	3319	3	Coal Steam	South Carolina	152	2015
Jefferies	3319	4	Coal Steam	South Carolina	150	2015
Kinsleys Landfill	10045	0011	Landfill Gas	New Jersey	0.5	2014
Kinsleys Landfill	10045	0012	Landfill Gas	New Jersey	0.5	2014
Kinsleys Landfill	10045	0013	Landfill Gas	New Jersey	0.5	2014
Kinsleys Landfill	10045	0014	Landfill Gas	New Jersey	0.5	2014
Miami Wabash	1006	4	Combustion Turbine	Indiana	16	2011
TMC LLC	10347	GEN1	Biomass	Florida	7.5	2012
Newby Island II	10389	1	Landfill Gas	California	1	2012
Newby Island II	10389	2	Landfill Gas	California	1	2012
Newby Island II	10389	3	Landfill Gas	California	1	2012
Little Company of Mary Hospital	10400	GEN1	Combustion Turbine	Illinois	3.2	2012
Northwind Energy	10738	GEN1	Wind	California	12.1	2012
Seaford Delaware Plant	10793	GEN1	O/G Steam	Delaware	9	2010
Lowell Cogen Plant	10802	GEN1	Combined Cycle	Massachusetts	20	2013
Lowell Cogen Plant	10802	GEN2	Combined Cycle	Massachusetts	8.5	2013
Winsor Dam Power Station	10826	WINS	Hydro	Massachusetts	0.6	1991
Estherville	1137	6	Combustion Turbine	Iowa	1.7	2013
Saguaro	118	PV1	Solar Thermal	Arizona	1	2013
West Liberty	1200	1	Combustion Turbine	Iowa	0.7	2011
Riverton	1239	9	Combustion Turbine	Kansas	12	2016
Iola	1291	11	Combustion Turbine	Kansas	2.1	2013
Iola	1291	12	Combustion Turbine	Kansas	2	2013
Iola	1291	13	Combustion Turbine	Kansas	2	2013
Stafford	1325	1	Combustion Turbine	Kansas	0.9	2011
Great Bend	1334	6	Combustion Turbine	Kansas	3	2012
Eastport	1468	1	Combustion Turbine	Maine	0.7	2012
Eastport	1468	2	Combustion Turbine	Maine	0.7	2012
Medway	1474	IC1	Combustion Turbine	Maine	2	2015
Medway	1474	IC2	Combustion Turbine	Maine	2	2015
Medway	1474	IC3	Combustion Turbine	Maine	2	2015

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Medway	1474	IC4	Combustion Turbine	Maine	2	2015
PPL Veazie Hydro Station	1479	VZ01	Hydro	Maine	0.7	2013
PPL Veazie Hydro Station	1479	VZ02	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ03	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ04	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ05	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ06	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ07	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ08	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ09	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ10	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ11	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ12	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ13	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ14	Hydro	Maine	0.3	2013
PPL Veazie Hydro Station	1479	VZ15	Hydro	Maine	0.5	2013
PPL Veazie Hydro Station	1479	VZ16	Hydro	Maine	1.4	2013
PPL Veazie Hydro Station	1479	VZ17	Hydro	Maine	1.4	2013
Osceola	172	10	Combustion Turbine	Arkansas	1.6	2012
Osceola	172	11	Combustion Turbine	Arkansas	1.6	2012
Osceola	172	12	Combustion Turbine	Arkansas	1.6	2012
Coldwater	1819	3	Combustion Turbine	Michigan	3.5	2012
Moorhead	1995	6	Combustion Turbine	Minnesota	5.9	2011
Two Harbors	2016	3	Combustion Turbine	Minnesota	1.9	2012
Jack Watson	2049	A	Combustion Turbine	Mississippi	33	2016
Viaduct	2096	1	Combustion Turbine	Missouri	26	2011
La Plata	2140	8	Combustion Turbine	Missouri	0.9	2012
La Plata	2140	9	Combustion Turbine	Missouri	0.9	2012
Macon	2141	1	Combustion Turbine	Missouri	4.8	2012
Odessa	2148	2	Combustion Turbine	Missouri	0.2	2011
Odessa	2148	5	Combustion Turbine	Missouri	1	2008
Owensville	2149	3A	Combustion Turbine	Missouri	1.8	2011
Owensville	2149	4A	Combustion Turbine	Missouri	1.3	2011
Owensville	2149	4B	Combustion Turbine	Missouri	1.8	2011
Owensville	2149	5	Combustion Turbine	Missouri	1.3	2011
Owensville	2149	6	Combustion Turbine	Missouri	1.8	2011
Owensville	2149	6A	Combustion Turbine	Missouri	1.8	2011
Coleman	2158	IC1	Combustion Turbine	Missouri	2	2011
Coleman	2158	IC2	Combustion Turbine	Missouri	2.3	2011
Main Street	2162	1	Combustion Turbine	Missouri	12	2010
Trenton Diesel	2163	4	Combustion Turbine	Missouri	0.9	2011
Trenton Diesel	2163	5	Combustion Turbine	Missouri	1	2011
Mullen	2280	3	Combustion Turbine	Nebraska	0.3	2011

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Mullen	2280	4	Combustion Turbine	Nebraska	0.6	2012
Sutherland	2306	2	Combustion Turbine	Nebraska	0.9	2009
Sunrise	2326	2	Combustion Turbine	Nevada	69	2011
Tracy	2336	GT1	Combustion Turbine	Nevada	10	2010
Tracy	2336	GT2	Combustion Turbine	Nevada	10	2010
Kerckhoff	250	H2	Hydro	California	8.6	2013
Montauk	2515	2	Combustion Turbine	New York	2	2013
Montauk	2515	3	Combustion Turbine	New York	2	2013
Montauk	2515	4	Combustion Turbine	New York	1.9	2013
Rochester 3	2640	13	Combustion Turbine	New York	14.4	2011
Rochester 9	2644	2	Combustion Turbine	New York	14	2014
Cape Fear	2708	1	Combined Cycle	North Carolina	11	2013
Cape Fear	2708	1A	Combined Cycle	North Carolina	11	2013
Cape Fear	2708	2	Combined Cycle	North Carolina	7	2013
Cape Fear	2708	2A	Combined Cycle	North Carolina	11	2013
Cape Fear	2708	2B	Combined Cycle	North Carolina	11	2012
Morehead	2711	GT1	Combustion Turbine	North Carolina	12	2012
Williston	2791	3	Combustion Turbine	North Dakota	4.9	2012
Grand Forks	2821	1	Combustion Turbine	North Dakota	0.7	2012
Grand Forks	2821	10	Combustion Turbine	North Dakota	1.1	2012
Grand Forks	2821	11	Combustion Turbine	North Dakota	1.1	2012
Grand Forks	2821	2	Combustion Turbine	North Dakota	0.7	2012
Grand Forks	2821	3	Combustion Turbine	North Dakota	0.7	2012
Grand Forks	2821	4	Combustion Turbine	North Dakota	1	2012
Grand Forks	2821	5	Combustion Turbine	North Dakota	1	2012
Grand Forks	2821	6	Combustion Turbine	North Dakota	1	2012
Grand Forks	2821	7	Combustion Turbine	North Dakota	1.1	2012
Grand Forks	2821	8	Combustion Turbine	North Dakota	1.1	2012
Grand Forks	2821	9	Combustion Turbine	North Dakota	1.1	2012
Harwood	2822	2	Combustion Turbine	North Dakota	1.6	2012
Harwood	2822	3	Combustion Turbine	North Dakota	1.6	2012
Walter C Beckjord	2830	GT1	Combustion Turbine	Ohio	47	2014
Walter C Beckjord	2830	GT2	Combustion Turbine	Ohio	47	2014
Walter C Beckjord	2830	GT3	Combustion Turbine	Ohio	47	2014
Walter C Beckjord	2830	GT4	Combustion Turbine	Ohio	47	2014
FirstEnergy Mad River	2860	CTA	Combustion Turbine	Ohio	25	2013
FirstEnergy Mad River	2860	CTB	Combustion Turbine	Ohio	25	2013
Hamilton	2917	GT1	Combustion Turbine	Ohio	8	2011
Enid	2950	1	Combustion Turbine	Oklahoma	11.1	2012
Enid	2950	2	Combustion Turbine	Oklahoma	10.5	2012
Enid	2950	3	Combustion Turbine	Oklahoma	11.5	2012
Enid	2950	4	Combustion Turbine	Oklahoma	10.5	2012
Woodward	2958	GT1	Combustion Turbine	Oklahoma	9.5	2012

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Fairview	2978	4	Combustion Turbine	Oklahoma	0.8	2012
Fairview	2978	5	Combustion Turbine	Oklahoma	1	2012
El Cajon	301	ENCI	Combustion Turbine	California	15	2016
Kearny	303	KEA1	Combustion Turbine	California	16	2014
Kearny	303	KEA2	Combustion Turbine	California	59	2016
Kearny	303	KEA3	Combustion Turbine	California	61	2016
Miramar	305	MRGT	Combustion Turbine	California	36	2016
H B Robinson	3251	GT1	Combustion Turbine	South Carolina	11	2013
Rocky River	3305	IC1	Combustion Turbine	South Carolina	1.1	2013
Lake Creek	3502	D1	Combustion Turbine	Texas	2	2014
Lake Creek	3502	D2	Combustion Turbine	Texas	2	2014
Tradinghouse	3506	1	O/G Steam	Texas	565	2010
Ty Cooke	3602	GT1	Combustion Turbine	Texas	11	2012
Bountiful City	3665	3	Combustion Turbine	Utah	1.2	2011
Bountiful City	3665	4	Combustion Turbine	Utah	1	2011
Bountiful City	3665	5	Combustion Turbine	Utah	1	2011
Bountiful City	3665	7	Combustion Turbine	Utah	0.1	2011
Vermont Yankee	3751	1	Nuclear	Vermont	620.3	2014
Chesapeake	3803	7	Combustion Turbine	Virginia	16	2011
Chesapeake	3803	8	Combustion Turbine	Virginia	16	2011
Chesapeake	3803	9	Combustion Turbine	Virginia	16	2011
Condit	3846	1	Hydro	Washington	7.7	2011
Condit	3846	2	Hydro	Washington	7.4	2011
Wanapum	3888	1	Hydro	Washington	97	2012
Wanapum	3888	10	Hydro	Washington	112	2013
Wanapum	3888	7	Hydro	Washington	115	2010
Wanapum	3888	8	Hydro	Washington	112	2015
Eagle River	4062	1	Combustion Turbine	Wisconsin	2.1	2011
Eagle River	4062	2	Combustion Turbine	Wisconsin	2.1	2011
New Badger	4120	1	Hydro	Wisconsin	1.8	2012
New Badger	4120	2	Hydro	Wisconsin	1.8	2012
Old Badger	4121	3	Hydro	Wisconsin	1	2012
Old Badger	4121	4	Hydro	Wisconsin	1	2012
Endicott Station	4259	2	Combustion Turbine	Michigan	1.6	2012
Endicott Station	4259	3	Combustion Turbine	Michigan	1.6	2012
Chalk Cliff Cogen	50003	GEN1	Combustion Turbine	California	46	2015
Tillotson Rubber	50095	HG1	Hydro	New Hampshire	0.1	2011
United Cogen	50104	G-1	Combined Cycle	California	22	2012
United Cogen	50104	G-2	Combined Cycle	California	7	2012
Onondaga Energy Partners LP	50346	ON1	Landfill Gas	New York	0.6	2010
Ware Energy	50419	GEN1	Biomass	Massachusetts	8.7	2012
Lake Gas Recovery	50575	GEN3	Landfill Gas	Illinois	2.9	2016

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
KMS Crossroads	50693	DG-1	Combustion Turbine	New Jersey	0.1	2011
KMS Crossroads	50693	DG-3	Combustion Turbine	New Jersey	0.1	2011
KMS Crossroads	50693	TG-4	Combustion Turbine	New Jersey	0.1	2011
Ormesa IH	50762	OE11	Geothermal	California	1	2016
Ormesa IE	50764	OE10	Geothermal	California	0.6	2009
Ormesa IE	50764	OE11	Geothermal	California	1	2009
Ormesa IE	50764	OE12	Geothermal	California	0.6	2009
Ormesa IE	50764	OEC1	Geothermal	California	1	2009
Ormesa IE	50764	OEC2	Geothermal	California	0.6	2009
Ormesa IE	50764	OEC3	Geothermal	California	1	2009
Ormesa IE	50764	OEC4	Geothermal	California	0.6	2009
Ormesa IE	50764	OEC5	Geothermal	California	1	2009
Ormesa IE	50764	OEC6	Geothermal	California	0.6	2009
Ormesa IE	50764	OEC7	Geothermal	California	1	2009
Ormesa IE	50764	OEC8	Geothermal	California	0.6	2009
Ormesa IE	50764	OEC9	Geothermal	California	1	2009
Ormesa I	50766	OE1	Geothermal	California	0.7	2003
Ormesa I	50766	OE10	Geothermal	California	0.7	2003
Ormesa I	50766	OE13	Geothermal	California	0.7	2003
Ormesa I	50766	OE16	Geothermal	California	0.7	2003
Ormesa I	50766	OE2	Geothermal	California	0.7	2003
Ormesa I	50766	OE23	Geothermal	California	0.9	2008
Ormesa I	50766	OE26	Geothermal	California	0.9	2012
Ormesa I	50766	OE27	Geothermal	California	0.9	2003
Ormesa I	50766	OE28	Geothermal	California	0.9	2003
Ormesa I	50766	OE3	Geothermal	California	0.9	2003
Ormesa I	50766	OE4	Geothermal	California	0.7	2003
Ormesa I	50766	OE5	Geothermal	California	1.1	2003
Ormesa I	50766	OE6	Geothermal	California	1.1	2003
Ormesa I	50766	OE7	Geothermal	California	0.7	2003
Ormesa I	50766	OE8	Geothermal	California	0.7	2003
Ormesa I	50766	OE9	Geothermal	California	0.7	2003
McKittrick Cogen	52076	GEN1	Combustion Turbine	California	3	2012
McKittrick Cogen	52076	GEN2	Combustion Turbine	California	3	2012
McKittrick Cogen	52076	GEN3	Combustion Turbine	California	3	2012
Kern River Fee B Cogen	52092	GEN1	Combustion Turbine	California	3.2	2011
Kern River Fee A Cogen	52094	GEN1	Combustion Turbine	California	3.2	2011
Kern River Fee A Cogen	52094	GEN2	Combustion Turbine	California	3.2	2011
Kern River Fee C Cogen	52095	GEN1	Combustion Turbine	California	3.2	2011
Kern River Fee C Cogen	52095	GEN2	Combustion Turbine	California	3.2	2011
Gantt	53	3	Hydro	Alabama	1	2015
Blanco Compressor Station	54221	1	O/G Steam	New Mexico	1	2011
Blanco Compressor Station	54221	2	O/G Steam	New Mexico	1	2011

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Nelson Plant Generators	54245	EXI1	Combustion Turbine	Arizona	1.1	2011
Nelson Plant Generators	54245	EXI2	Combustion Turbine	Arizona	1.1	2010
BJ Gas Recovery	54392	GEN1	Landfill Gas	Georgia	0.8	2016
San Gorgonio Windplant WPP1993	54454	GEN3	Wind	California	34	2011
Ormesa II	54724	OE11	Geothermal	California	0.9	2007
Ormesa II	54724	OE12	Geothermal	California	0.9	2007
Ormesa II	54724	OE13	Geothermal	California	0.9	2007
Ormesa II	54724	OE21	Geothermal	California	0.9	2007
Ormesa II	54724	OE22	Geothermal	California	0.9	2007
Ormesa II	54724	OE23	Geothermal	California	0.9	2007
Ormesa II	54724	OE24	Geothermal	California	0.9	2007
Ormesa II	54724	OE25	Geothermal	California	0.9	2007
Ormesa II	54724	OE26	Geothermal	California	0.9	2007
Ormesa II	54724	OE27	Geothermal	California	0.9	2007
Ormesa II	54724	OEC1	Geothermal	California	0.9	2007
Ormesa II	54724	OEC2	Geothermal	California	0.9	2007
Ormesa II	54724	OEC3	Geothermal	California	0.9	2007
Ormesa II	54724	OEC4	Geothermal	California	0.9	2007
Ormesa II	54724	OEC5	Geothermal	California	0.9	2007
Ormesa II	54724	OEC6	Geothermal	California	0.9	2007
Ormesa II	54724	OEC7	Geothermal	California	0.9	2007
Ormesa II	54724	OEC8	Geothermal	California	0.9	2007
Ormesa II	54724	OEC9	Geothermal	California	0.9	2007
NRG Norwalk Harbor	548	10	Combustion Turbine	Connecticut	11.9	2013
Modern Landfill Production Plant	55142	GEN2	Landfill Gas	Pennsylvania	3	2013
Modern Landfill Production Plant	55142	GEN3	Landfill Gas	Pennsylvania	3	2013
Modern Landfill Production Plant	55142	GEN4	Landfill Gas	Pennsylvania	3	2013
Ina Road Water Pollution Control Fac	55257	1	Combustion Turbine	Arizona	0.6	2013
Ina Road Water Pollution Control Fac	55257	2	Combustion Turbine	Arizona	0.6	2013
Ina Road Water Pollution Control Fac	55257	3	Combustion Turbine	Arizona	0.6	2013
Ina Road Water Pollution Control Fac	55257	4	Combustion Turbine	Arizona	0.6	2013
Ina Road Water Pollution Control Fac	55257	5	Combustion Turbine	Arizona	0.6	2013
Ina Road Water Pollution Control Fac	55257	6	Combustion Turbine	Arizona	0.6	2013
Ina Road Water Pollution Control Fac	55257	7	Combustion Turbine	Arizona	0.6	2013
Air Products Port Arthur	55309	GEN2	Combined Cycle	Texas	3	2012
Water Filter Plant #2	55534	3516	Combustion Turbine	North Carolina	1.3	2013
Conroe	55555	UNT1	Landfill Gas	Texas	1	2012
Conroe	55555	UNT2	Landfill Gas	Texas	1	2012
Conroe	55555	UNT3	Landfill Gas	Texas	1	2012
Chicopee Electric	55590	1	Landfill Gas	Massachusetts	0.9	2012
Chicopee Electric	55590	2	Landfill Gas	Massachusetts	0.9	2012
South Barrington Electric	55594	1	Landfill Gas	Illinois	0.8	2012
South Barrington Electric	55594	2	Landfill Gas	Illinois	0.8	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Devonshire Power Partners LLC	55761	DO3	Landfill Gas	Illinois	1	2014
Devonshire Power Partners LLC	55761	DO4	Landfill Gas	Illinois	1	2014
Devonshire Power Partners LLC	55761	DO5	Landfill Gas	Illinois	1	2014
Riverside Resource Recovery LLC	55767	RO1	Landfill Gas	Illinois	0.9	2012
Avon Energy Partners LLC	55768	CH2	Landfill Gas	Illinois	0.9	2014
Countyside Genco LLC	55773	CS1	Landfill Gas	Illinois	1.3	2012
Countyside Genco LLC	55773	CS2	Landfill Gas	Illinois	1.3	2012
Countyside Genco LLC	55773	CS3	Landfill Gas	Illinois	1.3	2012
Countyside Genco LLC	55773	CS4	Landfill Gas	Illinois	1.3	2012
Countyside Genco LLC	55773	CS5	Landfill Gas	Illinois	1.3	2012
Countyside Genco LLC	55773	CS6	Landfill Gas	Illinois	1.3	2012
Morris Genco LLC	55774	MO1	Landfill Gas	Illinois	1.3	2011
Morris Genco LLC	55774	MO2	Landfill Gas	Illinois	1.3	2011
Morris Genco LLC	55774	MO3	Landfill Gas	Illinois	1.3	2011
Brookhaven Facility	55778	BH2	Landfill Gas	New York	1.2	2012
Brookhaven Facility	55778	BH3	Landfill Gas	New York	1.2	2012
Brookhaven Facility	55778	BH4	Landfill Gas	New York	1.2	2012
Fox Valley Energy Center	56037	1	Non-Fossil Waste	Wisconsin	6.5	2013
Gastonia Rankin Lake	56060	1	Combustion Turbine	North Carolina	1.8	2012
Gastonia Duke Street	56061	1	Combustion Turbine	North Carolina	1.8	2012
Maiden Finger Street	56065	1	Combustion Turbine	North Carolina	1.8	2012
Lexington Hickory Street	56066	1	Combustion Turbine	North Carolina	1.8	2012
John Street 1, 3, 4 & 5	56256	JS 1	Combustion Turbine	Connecticut	2	2011
Geneva Generation Facility	56462	GEN6	Combustion Turbine	Illinois	1.4	2011
Galena 3 Geothermal Power Plant	56541	GEN2	Geothermal	Nevada	7.9	2015
Bridgeport Station	568	4	Combustion Turbine	Connecticut	18.3	2017
Middle Point Landfill Gas Recovery	56866	1	Landfill Gas	Tennessee	1.4	2011
Middle Point Landfill Gas Recovery	56866	2	Landfill Gas	Tennessee	1.4	2011
Solar Photovoltaic Project #01	56976	S1A	Solar PV	California	0.5	2011
Solar Photovoltaic Project #01	56976	S1B	Solar PV	California	0.5	2011
Solar Photovoltaic Project #01	56976	S1C	Solar PV	California	0.5	2011
Solar Photovoltaic Project #01	56976	S1D	Solar PV	California	0.5	2011
Thermo No 1	57353	1	Geothermal	Utah	7.6	2013
Central Ohio BioEnergy Plant #1	57513	COBE1	Non-Fossil Waste	Ohio	0.9	2011
Algonquin Power Sanger LLC	57564	STG	Combined Cycle	California	12.5	2012
Seaford	601	1	Combustion Turbine	Delaware	1.3	2011
Seaford	601	2	Combustion Turbine	Delaware	1.3	2011
Seaford	601	3	Combustion Turbine	Delaware	1.1	2011
Seaford	601	6	Combustion Turbine	Delaware	2	2011
Seaford	601	7	Combustion Turbine	Delaware	1.1	2011
Pittsfield	6237	1	Combustion Turbine	Illinois	1	2011
Pittsfield	6237	2	Combustion Turbine	Illinois	1	2011
Pittsfield	6237	3	Combustion Turbine	Illinois	1	2011

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Pittsfield	6237	4	Combustion Turbine	Illinois	2.7	2011
Pittsfield	6237	5	Combustion Turbine	Illinois	2.7	2011
Avon Park	624	P1	Combustion Turbine	Florida	24	2016
Avon Park	624	P2	Combustion Turbine	Florida	24	2016
G E Turner	629	P1	Combustion Turbine	Florida	10	2016
G E Turner	629	P2	Combustion Turbine	Florida	10	2016
Higgins	630	P1	Combustion Turbine	Florida	25	2016
Higgins	630	P2	Combustion Turbine	Florida	25	2016
Higgins	630	P3	Combustion Turbine	Florida	33	2016
Higgins	630	P4	Combustion Turbine	Florida	30	2016
Rio Pinar	637	P1	Combustion Turbine	Florida	12	2016
Kensico	650	1	Hydro	New York	0.8	2012
Kensico	650	2	Hydro	New York	0.8	2012
Kensico	650	3	Hydro	New York	0.8	2012
Battle Mountain	6509	1	Combustion Turbine	Nevada	1.8	2011
Battle Mountain	6509	2	Combustion Turbine	Nevada	1.8	2011
Battle Mountain	6509	3	Combustion Turbine	Nevada	1.8	2011
Battle Mountain	6509	4	Combustion Turbine	Nevada	1.8	2011
Valley Road	6530	1	Combustion Turbine	Nevada	2	2011
Valley Road	6530	2	Combustion Turbine	Nevada	2	2011
Valley Road	6530	3	Combustion Turbine	Nevada	2	2011
Winnemucca	6533	1	Combustion Turbine	Nevada	15	2011
Little Mountain	6553	1	Combustion Turbine	Utah	14	2011
Block Island	6567	19	Combustion Turbine	Rhode Island	1	2012
G W Ivey	665	10	Combustion Turbine	Florida	2	2013
G W Ivey	665	11	Combustion Turbine	Florida	3	2013
G W Ivey	665	12	Combustion Turbine	Florida	3	2013
G W Ivey	665	8	Combustion Turbine	Florida	2	2013
G W Ivey	665	9	Combustion Turbine	Florida	2	2013
Medicine Bow	692	CLIP	Wind	Wyoming	2.5	2011
Barnett Shoals	701	1	Hydro	Georgia	0.2	2010
Barnett Shoals	701	2	Hydro	Georgia	0.2	2010
Barnett Shoals	701	3	Hydro	Georgia	0.2	2010
Barnett Shoals	701	4	Hydro	Georgia	0.2	2010
Bowen	703	6	Combustion Turbine	Georgia	32	2013
Heber City	7111	NA3	Combustion Turbine	Utah	0.6	2012
Boulevard	732	2	Combustion Turbine	Georgia	14	2013
Boulevard	732	3	Combustion Turbine	Georgia	14	2013
Alliant Techsystems	7376	1	Combustion Turbine	Minnesota	1.6	2015
Oneida Casino	7602	1	Combustion Turbine	Wisconsin	1.8	2011
Oneida Casino	7602	2	Combustion Turbine	Wisconsin	1.8	2011
Lawrence County Station	7948	2	Combustion Turbine	Indiana	44	2015
State St Generating	7970	1	Combustion Turbine	Michigan	1.8	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
State St Generating	7970	2	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	3	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	4	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	5	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	6	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	7	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	8	Combustion Turbine	Michigan	1.8	2012
State St Generating	7970	9	Combustion Turbine	Michigan	1.8	2012
Hutsonville	863	D1	Combustion Turbine	Illinois	3	2011
Oglesby	894	1	Combustion Turbine	Illinois	13.5	2013
Oglesby	894	2	Combustion Turbine	Illinois	13.5	2013
Oglesby	894	3	Combustion Turbine	Illinois	13.5	2013
Oglesby	894	4	Combustion Turbine	Illinois	13.5	2013
Stallings	895	1	Combustion Turbine	Illinois	20.5	2013
Stallings	895	2	Combustion Turbine	Illinois	20.5	2013
Stallings	895	3	Combustion Turbine	Illinois	20.5	2013
Stallings	895	4	Combustion Turbine	Illinois	20.5	2013
Peru	955	10	Combustion Turbine	Illinois	2	2011
Peru	955	3	Combustion Turbine	Illinois	1.8	2010
Peru	955	7	Combustion Turbine	Illinois	1.8	2010
Peru	955	8	Combustion Turbine	Illinois	2	2010
Peru	955	9	Combustion Turbine	Illinois	2	2010
Peru	955	IC1	Combustion Turbine	Illinois	6	2011
Peru	955	IC2	Combustion Turbine	Illinois	1.8	2010
Peru	955	IC3	Combustion Turbine	Illinois	1.8	2011
Rantoul	958	5	Combustion Turbine	Illinois	0.7	2012
Palos Verdes Gas to Energy	10473	B501	Landfill Gas	California	1.2	2011
Koppers Susquehanna Plant	10731	1	Biomass	Pennsylvania	12	2013
Seaford Delaware Plant	10793	BLR5	O/G Steam	Delaware	9	2010
Saguaro	118	1	O/G Steam	Arizona	110	2013
Saguaro	118	2	O/G Steam	Arizona	100	2013
Pratt	1317	4	O/G Steam	Kansas	5.8	2012
Garden City	1336	GC3	O/G Steam	Kansas	8.7	2013
Nine Mile Point	1403	1	O/G Steam	Louisiana	50	2011
Nine Mile Point	1403	2	O/G Steam	Louisiana	107	2011
Sterlington	1404	10	O/G Steam	Louisiana	212	2012
Michoud	1409	1	O/G Steam	Louisiana	65	2016
Monroe	1448	10	O/G Steam	Louisiana	22	2011
Monroe	1448	11	O/G Steam	Louisiana	33	2011
Monroe	1448	12	O/G Steam	Louisiana	71	2011
Riverside	1559	4	O/G Steam	Maryland	74	2016
Hamilton Moses	168	1	O/G Steam	Arkansas	67	2013
Hamilton Moses	168	2	O/G Steam	Arkansas	67	2013

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Robert E Ritchie	173	1	O/G Steam	Arkansas	300	2013
Owatonna	2003	6	O/G Steam	Minnesota	20.6	2011
Delta	2051	1	O/G Steam	Mississippi	90	2012
Delta	2051	2	O/G Steam	Mississippi	87	2012
Natchez	2052	1	O/G Steam	Mississippi	73	2011
Rex Brown	2053	1A	O/G Steam	Mississippi	7.5	2011
Sunrise	2326	1	O/G Steam	Nevada	80	2011
Tracy	2336	1	O/G Steam	Nevada	53	2014
Tracy	2336	2	O/G Steam	Nevada	83	2014
Rio Grande	2444	7	O/G Steam	New Mexico	46	2017
Animas	2465	3	O/G Steam	New Mexico	9	2012
Algodones	2475	1	O/G Steam	New Mexico	15	1987
Algodones	2475	2	O/G Steam	New Mexico	15	1987
Algodones	2475	3	O/G Steam	New Mexico	15	1987
Far Rockaway	2513	40	O/G Steam	New York	105	2012
National Grid Glenwood Energy Center	2514	40	O/G Steam	New York	116	2012
National Grid Glenwood Energy Center	2514	50	O/G Steam	New York	113	2012
Dynergy Morro Bay LLC	259	1	O/G Steam	California	163	2014
Dynergy Morro Bay LLC	259	2	O/G Steam	California	163	2014
Dynergy Morro Bay LLC	259	3	O/G Steam	California	337	2014
Dynergy Morro Bay LLC	259	4	O/G Steam	California	336	2014
AES Huntington Beach LLC	335	3A	O/G Steam	California	225	2012
AES Huntington Beach LLC	335	4A	O/G Steam	California	227	2012
E S Joslin	3436	1	O/G Steam	Texas	254	2005
El Centro	389	3	O/G Steam	California	42	2010
Haynes	400	5	O/G Steam	California	292	2013
Haynes	400	6	O/G Steam	California	238	2013
Scattergood	404	3	O/G Steam	California	445	2015
Pueblo	460	41	O/G Steam	Colorado	9	2013
Pueblo	460	49	O/G Steam	Colorado	18.8	2013
Thomas C Ferguson	4937	1	O/G Steam	Texas	420	2013
Sierra Pacific Loyalton Facility	50111	BLR1	Biomass	California	11.8	2010
Rabun Gap Cogen Facility	50201	WB1	Biomass	Georgia	17	2010
New Hanover County WASTEC	50271	1A	Municipal Solid Waste	North Carolina	1.2	2001
Clewiston Sugar House	50482	B1	Biomass	Florida	11.1	2004
Boralex Sherman LLC	50874	19425	Biomass	Maine	21	2009
NRG Norwalk Harbor	548	1	O/G Steam	Connecticut	162	2013
NRG Norwalk Harbor	548	2	O/G Steam	Connecticut	168	2013
Sanford	620	PSN3	O/G Steam	Florida	138	2012
Turkey Point	621	PTP2	O/G Steam	Florida	392	2013
John R Kelly	664	JRK7	O/G Steam	Florida	23.2	2013
McManus	715	1	O/G Steam	Georgia	43	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
McManus	715	2	O/G Steam	Georgia	79	2015
Kraft	733	4	O/G Steam	Georgia	115	2015
Indian Trails Cogen 1	7384	1	O/G Steam	Illinois	3.3	2010
Everett Cogen	7627	14	Biomass	Washington	36	2011
Havana	891	1	O/G Steam	Illinois	28	2012
Havana	891	2	O/G Steam	Illinois	28	2012
Havana	891	3	O/G Steam	Illinois	28	2012
Havana	891	4	O/G Steam	Illinois	28	2012
Havana	891	5	O/G Steam	Illinois	28	2012
Havana	891	6	O/G Steam	Illinois	28	2013
Havana	891	7	O/G Steam	Illinois	28	2013
Havana	891	8	O/G Steam	Illinois	28	2013
Wood River	898	1	O/G Steam	Illinois	39	2011
Wood River	898	2	O/G Steam	Illinois	39	2011
Wood River	898	3	O/G Steam	Illinois	39	2011
Harding Street	990	10	O/G Steam	Indiana	35	2013
Abilene Energy Center Combustion Turbine	1251	GT1	Combustion Turbine	Kansas	64	2012
Herington	1283	1	Combustion Turbine	Kansas	1.6	2013
Herington	1283	2	Combustion Turbine	Kansas	1	2013
Herington	1283	3	Combustion Turbine	Kansas	3.1	2013
Herington	1283	5	Combustion Turbine	Kansas	0.9	2013
Kaw	1294	1	O/G Steam	Kansas	42	2013
Kaw	1294	2	O/G Steam	Kansas	42	2013
Norton	1310	1	Combustion Turbine	Kansas	0.9	2011
Norton	1310	2	Combustion Turbine	Kansas	1.3	2011
Norton	1310	3	Combustion Turbine	Kansas	2.4	2011
Norton	1310	4	Combustion Turbine	Kansas	3.1	2011
Norton	1310	5	Combustion Turbine	Kansas	2.2	2011
Oakely	1311	1	Combustion Turbine	Kansas	1.2	2012
Oakely	1311	2	Combustion Turbine	Kansas	0.3	2012
Oakely	1311	4	Combustion Turbine	Kansas	0.8	2012
Oakely	1311	6	Combustion Turbine	Kansas	3.2	2012
San Onofre Nuclear Generating Station	360	2	Nuclear	California	1094	2013
San Onofre Nuclear Generating Station	360	3	Nuclear	California	1080	2013
Tillotson Rubber	50095	IC1	Combustion Turbine	New Hampshire	0.4	2012
Tillotson Rubber	50095	IC2	Combustion Turbine	New Hampshire	0.6	2012
Tillotson Rubber	50095	TG2	Biomass	New Hampshire	0.6	2012
Tillotson Rubber	50095	TGI	Biomass	New Hampshire	0.7	2012
Cytec 1, 2 & 3	56257	CY 1	Combustion Turbine	Connecticut	2	2011
Cytec 1, 2 & 3	56257	CY 2	Combustion Turbine	Connecticut	2	2011
Cytec 1, 2 & 3	56257	CY 3	Combustion Turbine	Connecticut	2	2011
Hansel	672	21	Combined Cycle	Florida	30	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Hansel	672	22	Combined Cycle	Florida	8	2012
Hansel	672	23	Combined Cycle	Florida	8	2012
Neosho	1243	7	O/G Steam	Kansas	67	2012
Kaw	1294	3	O/G Steam	Kansas	56	2013
FirstEnergy Mitchell Power Station	3181	1	O/G Steam	Pennsylvania	27	2013
FirstEnergy Mitchell Power Station	3181	2	O/G Steam	Pennsylvania	27	2013
FirstEnergy Mitchell Power Station	3181	3	O/G Steam	Pennsylvania	27	2013
Cape Canaveral	609	PCC1	O/G Steam	Florida	396	2010
Cape Canaveral	609	PCC2	O/G Steam	Florida	396	2010
Cutler	610	PCU5	O/G Steam	Florida	68	2012
Cutler	610	PCU6	O/G Steam	Florida	137	2012
Port Everglades	617	PPE1	O/G Steam	Florida	213	2012
Port Everglades	617	PPE2	O/G Steam	Florida	213	2012
Port Everglades	617	PPE3	O/G Steam	Florida	387	2013
Port Everglades	617	PPE4	O/G Steam	Florida	392	2013
Riviera	619	PRV3	O/G Steam	Florida	277	2011
Riviera	619	PRV4	O/G Steam	Florida	288	2011
5 in 1 Dam Hydroelectric	10171	GEN1	Hydro	Iowa	0.7	2015
5 in 1 Dam Hydroelectric	10171	GEN2	Hydro	Iowa	0.7	2015
5 in 1 Dam Hydroelectric	10171	GEN3	Hydro	Iowa	0.7	2015
Oakland Dam Hydroelectric	10433	1	Hydro	Pennsylvania	0.5	2015
Oakland Dam Hydroelectric	10433	2	Hydro	Pennsylvania	0.5	2015
CES Placerita Power Plant	10677	UNT2	Combined Cycle	California	46	2015
CES Placerita Power Plant	10677	UNT3	Combined Cycle	California	23	2015
Tecumseh Energy Center	1252	1	Combustion Turbine	Kansas	18	2012
Tecumseh Energy Center	1252	2	Combustion Turbine	Kansas	19	2012
Riverside	1559	GT6	Combustion Turbine	Maryland	115	2014
High Street Station	1670	3	Combustion Turbine	Massachusetts	0.7	2006
Gaylord	1706	5	Combustion Turbine	Michigan	14	2010
Albany	2113	3	Combustion Turbine	Missouri	0.6	2015
Coal Canyon	226	1	Hydro	California	0.9	2013
B L England	2378	IC1	Combustion Turbine	New Jersey	2	2016
B L England	2378	IC2	Combustion Turbine	New Jersey	2	2016
B L England	2378	IC3	Combustion Turbine	New Jersey	2	2016
B L England	2378	IC4	Combustion Turbine	New Jersey	2	2016
Cedar Station	2380	CED1	Combustion Turbine	New Jersey	44	2015
Cedar Station	2380	CED2	Combustion Turbine	New Jersey	22.3	2015
Middle Station	2382	MID1	Combustion Turbine	New Jersey	19.1	2015
Middle Station	2382	MID2	Combustion Turbine	New Jersey	19.5	2015
Middle Station	2382	MID3	Combustion Turbine	New Jersey	36	2015
Missouri Avenue	2383	MISB	Combustion Turbine	New Jersey	20.5	2015
Missouri Avenue	2383	MISC	Combustion Turbine	New Jersey	20.5	2015
Missouri Avenue	2383	MISD	Combustion Turbine	New Jersey	20.6	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Werner	2385	GT1	Combustion Turbine	New Jersey	53	2015
Werner	2385	GT2	Combustion Turbine	New Jersey	53	2015
Werner	2385	GT3	Combustion Turbine	New Jersey	53	2015
Werner	2385	GT4	Combustion Turbine	New Jersey	53	2015
Gilbert	2393	C1	Combustion Turbine	New Jersey	23	2015
Gilbert	2393	C2	Combustion Turbine	New Jersey	25	2015
Gilbert	2393	C3	Combustion Turbine	New Jersey	25	2015
Gilbert	2393	C4	Combustion Turbine	New Jersey	25	2015
PSEG Burlington Generating Station	2399	111	Combustion Turbine	New Jersey	46.3	2015
PSEG Burlington Generating Station	2399	112	Combustion Turbine	New Jersey	46	2015
PSEG Burlington Generating Station	2399	113	Combustion Turbine	New Jersey	46.2	2015
PSEG Burlington Generating Station	2399	114	Combustion Turbine	New Jersey	46	2015
PSEG Burlington Generating Station	2399	91	Combustion Turbine	New Jersey	48.8	2014
PSEG Burlington Generating Station	2399	92	Combustion Turbine	New Jersey	47	2014
PSEG Burlington Generating Station	2399	93	Combustion Turbine	New Jersey	48	2014
PSEG Burlington Generating Station	2399	94	Combustion Turbine	New Jersey	47	2014
PSEG Edison Generating Station	2400	11	Combustion Turbine	New Jersey	44.1	2015
PSEG Edison Generating Station	2400	12	Combustion Turbine	New Jersey	42.8	2015
PSEG Edison Generating Station	2400	13	Combustion Turbine	New Jersey	43.6	2015
PSEG Edison Generating Station	2400	14	Combustion Turbine	New Jersey	43.1	2015
PSEG Edison Generating Station	2400	21	Combustion Turbine	New Jersey	43	2015
PSEG Edison Generating Station	2400	22	Combustion Turbine	New Jersey	44	2015
PSEG Edison Generating Station	2400	23	Combustion Turbine	New Jersey	42.8	2015
PSEG Edison Generating Station	2400	24	Combustion Turbine	New Jersey	43.9	2015
PSEG Edison Generating Station	2400	31	Combustion Turbine	New Jersey	42.6	2015
PSEG Edison Generating Station	2400	32	Combustion Turbine	New Jersey	43.7	2015
PSEG Edison Generating Station	2400	33	Combustion Turbine	New Jersey	43.1	2015
PSEG Edison Generating Station	2400	34	Combustion Turbine	New Jersey	43.1	2015
PSEG Essex Generating Station	2401	101	Combustion Turbine	New Jersey	44	2015
PSEG Essex Generating Station	2401	102	Combustion Turbine	New Jersey	43.6	2015
PSEG Essex Generating Station	2401	103	Combustion Turbine	New Jersey	43.6	2015
PSEG Essex Generating Station	2401	104	Combustion Turbine	New Jersey	44.6	2015
PSEG Essex Generating Station	2401	111	Combustion Turbine	New Jersey	46.1	2015
PSEG Essex Generating Station	2401	112	Combustion Turbine	New Jersey	47.6	2015
PSEG Essex Generating Station	2401	113	Combustion Turbine	New Jersey	46.1	2015
PSEG Essex Generating Station	2401	114	Combustion Turbine	New Jersey	46.1	2015
PSEG Essex Generating Station	2401	121	Combustion Turbine	New Jersey	46.6	2015
PSEG Essex Generating Station	2401	122	Combustion Turbine	New Jersey	46.8	2015
PSEG Essex Generating Station	2401	123	Combustion Turbine	New Jersey	47.6	2015
PSEG Essex Generating Station	2401	124	Combustion Turbine	New Jersey	46.6	2015
Ravenswood	2500	GT8	Combustion Turbine	New York	20	2008
E F Barrett	2511	7	Combustion Turbine	New York	16.6	2011
Wiscoy 170	2646	1	Hydro	New York	0.6	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Wiscoy 170	2646	2	Hydro	New York	0.4	2015
Greenport	2681	2	Combustion Turbine	New York	1.5	2015
Greenport	2681	7	Combustion Turbine	New York	1.6	2015
Cape Fear	2708	1B	Combined Cycle	North Carolina	11	2013
Lee	2709	GT1	Combustion Turbine	North Carolina	12	2012
Lee	2709	GT2	Combustion Turbine	North Carolina	21	2012
Lee	2709	GT3	Combustion Turbine	North Carolina	21	2012
Lee	2709	GT4	Combustion Turbine	North Carolina	21	2012
Kitty Hawk	2757	GT1	Combustion Turbine	North Carolina	16	2011
Kitty Hawk	2757	GT2	Combustion Turbine	North Carolina	15	2011
Williston	2791	2	Combustion Turbine	North Dakota	4.7	2012
Geysers Unit 5-20	286	U10	Geothermal	California	30	2015
Geysers Unit 5-20	286	U9	Geothermal	California	30	2015
Powerdale	3031	1	Hydro	Oregon	6	2007
Brunot Island	3096	1B	Combustion Turbine	Pennsylvania	15	2014
Brunot Island	3096	1C	Combustion Turbine	Pennsylvania	15	2014
Schuykill Generating Station	3169	IC1	Combustion Turbine	Pennsylvania	2.7	2012
Eagle Mountain	3489	1	O/G Steam	Texas	115	2012
Eagle Mountain	3489	2	O/G Steam	Texas	175	2012
Eagle Mountain	3489	3	O/G Steam	Texas	375	2012
Morgan Creek	3492	5	O/G Steam	Texas	175	2012
Morgan Creek	3492	6	O/G Steam	Texas	511	2012
Morris Sheppard	3557	1	Hydro	Texas	12	2014
Morris Sheppard	3557	2	Hydro	Texas	12	2014
Bountiful City	3665	2	Combustion Turbine	Utah	1.2	2011
Bountiful City	3665	6	Combustion Turbine	Utah	2.5	2011
Chesapeake	3803	10	Combustion Turbine	Virginia	16	2011
Nine Mile	3869	1	Hydro	Washington	8.9	2005
Wanapum	3888	2	Hydro	Washington	97	2012
Union Carbide Seadrift Cogen	50150	IGT	Combined Cycle	Texas	12	2015
Porterdale Hydro	50242	TB-2	Hydro	Georgia	0.7	2015
TXU Sweetwater Generating Plant	50615	GT01	Combined Cycle	Texas	41	2012
TXU Sweetwater Generating Plant	50615	GT02	Combined Cycle	Texas	86	2012
TXU Sweetwater Generating Plant	50615	GT03	Combined Cycle	Texas	86	2012
Steamboat 1	50763	OE11	Geothermal	Nevada	0.9	2015
Steamboat 1	50763	OE12	Geothermal	Nevada	0.9	2015
Steamboat 1	50763	OE13	Geothermal	Nevada	0.9	2015
Steamboat 1	50763	OE14	Geothermal	Nevada	0.9	2015
Steamboat 1	50763	OE21	Geothermal	Nevada	0.9	2015
Steamboat 1	50763	OE22	Geothermal	Nevada	0.9	2015
Steamboat 1	50763	OE23	Geothermal	Nevada	0.9	2015
Ivy River Hydro	50890	GEN1	Hydro	North Carolina	0.2	2015
Ivy River Hydro	50890	GEN2	Hydro	North Carolina	0.2	2015

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Ivy River Hydro	50890	GEN3	Hydro	North Carolina	0.2	2015
Ivy River Hydro	50890	GEN4	Hydro	North Carolina	0.2	2015
Ivy River Hydro	50890	GEN5	Hydro	North Carolina	0.2	2015
Ivy River Hydro	50890	GEN6	Hydro	North Carolina	0.2	2015
Herkimer	52057	01	Hydro	New York	0.1	2015
Herkimer	52057	02	Hydro	New York	0.1	2015
Herkimer	52057	03	Hydro	New York	0.1	2015
Herkimer	52057	04	Hydro	New York	0.1	2015
Steamboat 1A Power Plant	52138	DE32	Geothermal	Nevada	0.9	2015
Yuma	524	3	Combustion Turbine	Colorado	0.2	2015
Wythe Park Power Petersburg Plant	54045	1	Fossil Waste	Virginia	3	2013
Upper Androscoggin	54202	2	Hydro	Maine	0.5	2015
Alvarado Hydro Facility	54242	AHF	Hydro	California	1.4	2011
CTV Power Purchase Contract Trust	54300	SX1S	Wind	California	0.1	2015
Small Hydro of Texas	55000	01	Hydro	Texas	0.4	2015
Small Hydro of Texas	55000	02	Hydro	Texas	0.4	2015
Small Hydro of Texas	55000	03	Hydro	Texas	0.4	2015
Biodyne Pontiac	55054	1	Landfill Gas	Illinois	4.2	2015
Biodyne Pontiac	55054	3	Landfill Gas	Illinois	4.2	2015
Biodyne Pontiac	55054	GEN2	Landfill Gas	Illinois	4.2	2015
Biodyne Peoria	55057	001	Landfill Gas	Illinois	0.8	2015
Biodyne Peoria	55057	002	Landfill Gas	Illinois	0.8	2015
Biodyne Peoria	55057	004	Landfill Gas	Illinois	0.8	2015
Biodyne Peoria	55057	005	Landfill Gas	Illinois	0.8	2015
Biodyne Lyons	55060	001	Landfill Gas	Illinois	0.9	2015
Biodyne Lyons	55060	002	Landfill Gas	Illinois	0.9	2015
Biodyne Lyons	55060	004	Landfill Gas	Illinois	0.9	2015
New Albany Energy Facility	55080	1	Combustion Turbine	Mississippi	60	2015
New Albany Energy Facility	55080	2	Combustion Turbine	Mississippi	60	2015
New Albany Energy Facility	55080	3	Combustion Turbine	Mississippi	60	2015
New Albany Energy Facility	55080	4	Combustion Turbine	Mississippi	60	2015
New Albany Energy Facility	55080	5	Combustion Turbine	Mississippi	60	2015
New Albany Energy Facility	55080	6	Combustion Turbine	Mississippi	60	2015
Balefill LFG Project	55159	UNT1	Landfill Gas	New Jersey	0.1	2010
Balefill LFG Project	55159	UNT2	Landfill Gas	New Jersey	0.1	2010
Bluebonnet	55552	UNT2	Landfill Gas	Texas	1	2015
HMDC Kingsland Landfill	55604	UNT1	Landfill Gas	New Jersey	0.1	2010
HMDC Kingsland Landfill	55604	UNT2	Landfill Gas	New Jersey	0.1	2010
HMDC Kingsland Landfill	55604	UNT3	Landfill Gas	New Jersey	0.1	2010
Dunbarton Energy Partners LP	55779	MA1	Landfill Gas	New Hampshire	0.6	2012
Dunbarton Energy Partners LP	55779	MA2	Landfill Gas	New Hampshire	0.6	2012
SBD 9801 Aegon Martha's Way	56072	01	Combustion Turbine	Iowa	1	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Groveton Paper Board	56140	TUR1	Combustion Turbine	New Hampshire	4	2012
Groveton Paper Board	56140	TUR2	Combustion Turbine	New Hampshire	4	2012
Western Renewable Energy	56358	1	Biomass	Arizona	2.5	2015
Swift 2	6265	21	Hydro	Washington	34	2015
Crystal River	628	3	Nuclear	Florida	1028	2013
Tangier	6390	3	Combustion Turbine	Virginia	0.6	2015
Tangier	6390	4	Combustion Turbine	Virginia	0.8	2015
San Francisquito 2	6480	1	Hydro	California	14.5	2015
Berlin	6565	3A	Combustion Turbine	Maryland	1.8	2015
G W Ivey	665	18	Combustion Turbine	Florida	8	2013
Kewaunee	8024	1	Nuclear	Wisconsin	566	2013
Montgomery	8025	1	Combustion Turbine	Minnesota	20.6	2012
Glen Gardner	8227	1	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	2	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	3	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	4	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	5	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	6	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	7	Combustion Turbine	New Jersey	20	2015
Glen Gardner	8227	8	Combustion Turbine	New Jersey	20	2015
Vermilion	897	3	Combustion Turbine	Illinois	10	2011
Venice	913	GT1	Combustion Turbine	Illinois	26	2011
Worcester Energy	10165	1	Biomass	Maine	5.7	2013
Worcester Energy	10165	2	Biomass	Maine	5.7	2015
Worcester Energy	10165	3	Biomass	Maine	5.7	2015
Teche	1400	2	O/G Steam	Louisiana	33	2011
Crosscut	143	1	O/G Steam	Arizona	7.5	2015
Crosscut	143	2	O/G Steam	Arizona	7.5	2015
Crosscut	143	3	O/G Steam	Arizona	7.5	2015
Crosscut	143	4	O/G Steam	Arizona	2.5	2015
Crosscut	143	5	O/G Steam	Arizona	2.5	2015
Crosscut	143	6	O/G Steam	Arizona	2.5	2015
Morgan City	1449	1	O/G Steam	Louisiana	5.8	2012
Morgan City	1449	2	O/G Steam	Louisiana	5.8	2012
Harvey Couch	169	1	O/G Steam	Arkansas	12	2011
B C Cobb	1695	1	O/G Steam	Michigan	62	2016
B C Cobb	1695	2	O/G Steam	Michigan	62	2016
B C Cobb	1695	3	O/G Steam	Michigan	62	2016
Connors Creek	1726	15	O/G Steam	Michigan	58	2013
Connors Creek	1726	16	O/G Steam	Michigan	58	2013
Connors Creek	1726	17	O/G Steam	Michigan	58	2012
Connors Creek	1726	18	O/G Steam	Michigan	58	2012

Plant Name	ORIS Plant Code	Unit ID	Plant Type	State Name	Capacity (MW)	Retirement Year
Deepwater	2384	1	O/G Steam	New Jersey	78	2014
PSEG Sewaren Generating Station	2411	1	O/G Steam	New Jersey	105	2017
PSEG Sewaren Generating Station	2411	2	O/G Steam	New Jersey	108.3	2017
PSEG Sewaren Generating Station	2411	3	O/G Steam	New Jersey	107.9	2017
PSEG Sewaren Generating Station	2411	4	O/G Steam	New Jersey	121.8	2017
Animas	2465	4	O/G Steam	New Mexico	16	2012
Tulsa	2965	1403	O/G Steam	Oklahoma	65	2012
Schuylkill Generating Station	3169	1	O/G Steam	Pennsylvania	166	2012
El Segundo Power	330	3	O/G Steam	California	325	2013
Permian Basin	3494	5	O/G Steam	Texas	115	2011
Tradinghouse	3506	2	O/G Steam	Texas	818	2008
Bryan	3561	3	O/G Steam	Texas	12	2014
Bryan	3561	4	O/G Steam	Texas	22	2014
Bryan	3561	5	O/G Steam	Texas	25	2014
Bryan	3561	6	O/G Steam	Texas	50	2014
Viking Energy of Northumberland	50771	B1	Biomass	Pennsylvania	16.2	2012
DeCordova	8063	1	O/G Steam	Texas	818	2013
Meredosia	864	06	O/G Steam	Illinois	166	2010
Lake Creek	3502	D3	Combustion Turbine	Texas	2	2014
G F Weaton Power Station	50130	BLR1	Coal Steam	Pennsylvania	56	2011
G F Weaton Power Station	50130	BLR2	Coal Steam	Pennsylvania	56	2011
Dubuque	1046	1	Coal Steam	Iowa	22.8	2019
Dubuque	1046	5	Coal Steam	Iowa	22.8	2019
Dubuque	1046	6	Coal Steam	Iowa	22.8	2019
Fox Lake	1888	1	O/G Steam	Minnesota	6.5	2018
Fox Lake	1888	2	O/G Steam	Minnesota	6.5	2018
Wanapum	3888	5	Hydro	Washington	97	2011

Table 4-37 Potential Non Powered Dams

IPM Region	State	Capacity (MW)	Capital Cost (2011\$/kW)	FOM (2011\$/kW- yr)	VOM (2011mills/kWh)
ERC_REST	Texas	383	2245	14.6	2.60
ERC_WEST	Texas	29	2183	14.6	2.60
FRCC	Florida	126	2270	14.6	2.60
MIS_IA	Iowa	383	1707	14.6	2.60
MIS_IL	Illinois	630	1504	14.6	2.60
MIS_INKY	Indiana	66	2753	14.6	2.60
	Kentucky	536	1271	14.6	2.60
MIS_LMI	Michigan	32	4081	14.6	2.60
MIS_MAPP	Montana	17	2159	14.6	2.60
	North Dakota	15	2548	14.6	2.60
MIS_MIDA	Illinois	48	1552	14.6	2.60
	Iowa	150	1711	14.6	2.60
MIS_MNWI	Michigan	0.04	4396	14.6	2.60
	Minnesota	123	2227	14.6	2.60
	Wisconsin	101	1993	14.6	2.60
MIS_MO	Iowa	4	1808	14.6	2.60
	Missouri	242	1454	14.6	2.60
MIS_WUMS	Michigan	4	4415	14.6	2.60
	Wisconsin	114	1859	14.6	2.60
NENG_CT	Connecticut	59	2934	14.6	2.60
NENG_ME	Maine	15	4898	14.6	2.60
NENGREST	Massachusetts	53	4531	14.6	2.60
	New Hampshire	56	3046	14.6	2.60
	Rhode Island	11	4423	14.6	2.60
	Vermont	13	3137	14.6	2.60
NY_Z_A&B	New York	20	2329	14.6	2.60
NY_Z_C&E	New York	66	2461	14.6	2.60
NY_Z_D	New York	49	2437	14.6	2.60
NY_Z_F	New York	78	2478	14.6	2.60
NY_Z_G-I	New York	28	2275	14.6	2.60
PJM_AP	Maryland	13	2689	14.6	2.60
	Pennsylvania	237	1988	14.6	2.60
	Virginia	3	3475	14.6	2.60
	West Virginia	138	1927	14.6	2.60
PJM_ATSI	Ohio	64	2714	14.6	2.60
	Pennsylvania	43	1842	14.6	2.60
PJM_COMD	Illinois	150	1899	14.6	2.60
PJM_Dom	North Carolina	4	2649	14.6	2.60

IPM Region	State	Capacity (MW)	Capital Cost (2011\$/kW)	FOM (2011\$/kW-yr)	VOM (2011mills/kWh)
	Virginia	13	2939	14.6	2.60
PJM_EMAC	Delaware	1	4655	14.6	2.60
	Maryland	13	2387	14.6	2.60
	New Jersey	17	4291	14.6	2.60
	Pennsylvania	9	2476	14.6	2.60
	Pennsylvania	316	2026	14.6	2.60
PJM_SMAC	District of Columbia	1	2969	14.6	2.60
	Maryland	15	3092	14.6	2.60
PJM_West	Indiana	10	2612	14.6	2.60
	Kentucky	68	2166	14.6	2.60
	Michigan	0.3	4770	14.6	2.60
	Ohio	165	2543	14.6	2.60
	Tennessee	0.3	2778	14.6	2.60
	Virginia	8	2473	14.6	2.60
	West Virginia	37	2166	14.6	2.60
PJM_WMAC	Pennsylvania	49	2648	14.6	2.60
S_C_KY	Kentucky	431	1551	14.6	2.60
	Ohio	5	2446	14.6	2.60
S_C_TVA	Alabama	118	1628	14.6	2.60
	Georgia	30	1764	14.6	2.60
	Kentucky	1032	1170	14.6	2.60
	Mississippi	112	2083	14.6	2.60
	North Carolina	2	3646	14.6	2.60
	Tennessee	21	2523	14.6	2.60
	Virginia	1	2468	14.6	2.60
S_D_AMSO	Louisiana	158	1599	14.6	2.60
S_D_N_AR	Arkansas	599	1556	14.6	2.60
	Missouri	11	2243	14.6	2.60
S_D_REST	Arkansas	144	1653	14.6	2.60
	Louisiana	192	1629	14.6	2.60
	Mississippi	58	1974	14.6	2.60
S_D_WOTA	Louisiana	23	1727	14.6	2.60
	Texas	125	1509	14.6	2.60
S_SOU	Alabama	723	1324	14.6	2.60
	Florida	11	2307	14.6	2.60
	Georgia	51	1910	14.6	2.60
	Mississippi	56	1941	14.6	2.60
S_VACA	Georgia	0.1	2178	14.6	2.60
	North Carolina	111	2553	14.6	2.60
	South Carolina	43	2973	14.6	2.60

IPM Region	State	Capacity (MW)	Capital Cost (2011\$/kW)	FOM	
				(2011\$/kW-yr)	VOM (2011mills/kWh)
SPP_N	Kansas	54	2421	14.6	2.60
	Missouri	7	2564	14.6	2.60
SPP_NEBR	Kansas	3	2460	14.6	2.60
SPP_SE	Louisiana	451	1537	14.6	2.60
SPP_SPS	New Mexico	14	2501	14.6	2.60
SPP_WEST	Arkansas	387	1548	14.6	2.60
	Louisiana	24	1614	14.6	2.60
	Missouri	0.4	2809	14.6	2.60
	Oklahoma	312	1816	14.6	2.60
	Texas	20	2174	14.6	2.60
WEC_CALN	California	110	2559	14.6	2.60
WEC_LADW	California	27	1993	14.6	2.60
WECC_AZ	Arizona	58	2171	14.6	2.60
WECC_CO	Colorado	146	1860	14.6	2.60
WECC_ID	Idaho	6	3542	14.6	2.60
WECC_IID	California	0.4	1708	14.6	2.60
WECC_MT	Montana	54	2832	14.6	2.60
WECC_NM	New Mexico	75	2329	14.6	2.60
	Texas	15	2443	14.6	2.60
WECC_NNV	Nevada	12	4012	14.6	2.60
WECC_PNW	California	4	3244	14.6	2.60
	Idaho	1	2985	14.6	2.60
	Oregon	96	2709	14.6	2.60
	Washington	70	2464	14.6	2.60
WECC_SCE	California	34	1911	14.6	2.60
WECC_SF	California	1	2911	14.6	2.60
WECC_SNV	Nevada	2	3508	14.6	2.60
WECC_UT	Utah	29	2315	14.6	2.60
WECC_WY	Wyoming	37	2157	14.6	2.60

Table 4-38 Potential New Stream Development

IPM Region	State	Capacity (MW)	Capital Cost (2011\$/kW)	FOM	
				(2011\$/kW-yr)	VOM (2011mills/kWh)
MIS_MO	Missouri	891	3500	14.6	2.60
NENG_ME	Maine	406	5750	14.6	2.60
NENGREST	Massachusetts	13	5445	14.6	2.60
	New Hampshire	117	4838	14.6	2.60
	Vermont	58	5673	14.6	2.60
PJM_AP	Pennsylvania	7	4484	14.6	2.60

IPM Region	State	Capacity (MW)	Capital Cost (2011\$/kW)	FOM (2011\$/kW-yr)	VOM (2011mills/kWh)
PJM_EMAC	New Jersey	43	4995	14.6	2.60
	Pennsylvania	30	4484	14.6	2.60
PJM_PENE	Pennsylvania	239	4061	14.6	2.60
PJM_SMAC	Maryland	79	4862	14.6	2.60
PJM_WMAC	Pennsylvania	653	3972	14.6	2.60
S_VACA	South Carolina	51	5470	14.6	2.60
SPP_N	Missouri	350	3427	14.6	2.60
WECC_NNV	Nevada	13	6541	14.6	2.60
WECC_PNW	Oregon	86	4518	14.6	2.60
	Washington	394	3873	14.6	2.60

Section 5.1

Carbon dioxide (CO₂) Emissions from Chemical Reactions in a Wet Flue Gas Desulfurization (FGD) System for Sulfur Dioxide (SO₂) Control:

In EPA applications of IPM, the chemical reactions in a limestone forced oxidation (LSFO) system (also known as a wet FGD or wet scrubber) are assumed to cause CO₂ increases according to the following equation:

CO₂ increase in % of total CO₂ from fuel = 0.35 * SO₂ emission rate of the fuel (in lb/MMBtu) – 0.02

For example, for coal with an SO₂ emission factor of 4.3 lb/MMBtu, the increase in CO₂ is 1.485%. In contrast to LSFO, there is no representation of direct emissions of CO₂ or other greenhouse gases from the other control technologies in IPM. These include limestone spray dryers (LSD) for SO₂ control, dry sorbent injection (DSI) for SO₂ and hydrogen chloride (HCl) control, selective catalytic reduction (SCR) and selective non-catalytic reduction (SNCR) for NO_x control, and activated carbon injection (ACI) for mercury control.

Section 5.2

Post-Combustion NO_x Control Operation and NO_x Rate Updates to Reflect 2015 Behavior at Select Units

In recent years, some units have operated SCRs at reduced efficiency, or even bypassed SCRs altogether. As SCR rates in IPM for existing units are drawn from 2011 historical rates, this could overstate reductions possible at these units. To evaluate, EPA looked at coal fired units to determine where 2015 ozone season NO_x rates had significantly increased from their 2011 values. Specifically, if a unit both had an SCR in 2011 and subsequently their ozone season NO_x rate by at least 25% in 2015 their NO_x rate was marked for close examination.

NO_x rates and SCR (or SNCR) operation behavior for selected coal fired units were revised to reflect 2015 ETS data. In the Illustrative Base Case, historical rates that changed by more than 42% between 2011 and 2015 were updated; in the Final Base Case, the threshold was lowered to 25%. The Table below lists the updates and indicates if the update was made for the Illustrative Base Case (which carried forward to the Final Base Case except where noted), or where such updates were introduced in the Final Base Case.

Post-Combustion NO_x Control Operation and NO_x Rate Updates to Reflect 2015 Behavior at Select Units

Facility	UniqueID	State	Control	Control Operation Assumed in 2015	M1	M2	M3	M4	Updated For:
Lansing	1047_B_4	IA	SCR	On	0.06197	0.06197	0.06197	0.06197	Illustrative and Final Base Cases
Kincaid Generating Station	876_B_1	IL	SCR	On	0.06065	0.06065	0.06065	0.06065	Illustrative and Final Base Cases
Kincaid Generating Station	876_B_2	IL	SCR	On	0.06330	0.06330	0.06330	0.06330	Illustrative and Final Base Cases
Marion	976_B_4	IL	SCR	On	0.10445	0.10445	0.10445	0.10445	Illustrative and Final Base Cases
Gibson	6113_B_2	IN	SCR	On	0.13205	0.13205	0.13205	0.13205	Illustrative and Final Base Cases
Paradise	1378_B_3	KY	SCR	On	0.14316	0.14316	0.14316	0.14316	Illustrative and Final Base Cases
Dan E Karn	1702_B_1	MI	SCR	On	0.04326	0.04326	0.04326	0.04326	Illustrative and Final Base Cases
J H Campbell	1710_B_3	MI	SCR	On	0.04329	0.04329	0.04329	0.04329	Illustrative and Final Base Cases
Monroe	1733_B_1	MI	SCR	On	0.06518	0.06518	0.06518	0.06518	Illustrative and Final Base Cases
New Madrid Power Plant	2167_B_1	MO	SCR	On	0.13900	0.13900	0.13900	0.13900	Illustrative and Final Base Cases
Thomas Hill Energy Center	2168_B_MB2	MO	SCR	On	0.47199	0.11025	0.47199	0.11025	Illustrative and Final Base Cases
Keystone	3136_B_1	PA	SCR	On	0.35730	0.19947	0.35730	0.19947	Illustrative and Final Base Cases
Keystone	3136_B_2	PA	SCR	On	0.35957	0.21030	0.35957	0.21030	Illustrative and Final Base Cases
Gibson	6113_B_5	IN	SCR	Off	0.33714	0.07	0.33714	0.07	Illustrative and Final Base Cases
IPL - Petersburg Generating Station	994_B_3	IN	SCR	Off	0.24699	0.07	0.24699	0.07	Illustrative and Final Base Cases
New Madrid Power Plant	2167_B_1	MO	SCR	On	0.13900	0.13900	0.13900	0.13900	Illustrative and Final Base Cases
Belews Creek	8042_B_1	NC	SCR	On	0.12789	0.12789	0.12789	0.12789	Illustrative and Final Base Cases
Gen J M Gavin	8102_B_2	OH	SCR	On	0.14208	0.14208	0.14208	0.14208	Illustrative and Final Base Cases
Kyger Creek	2876_B_5	OH	SCR	Off	0.24385	0.07	0.24385	0.07	Illustrative and Final Base Cases
John E Amos	3935_B_2	WV	SCR	On	0.07818	0.07818	0.07818	0.07818	Illustrative and Final Base Cases
Mountaineer (1301)	6264_B_1	WV	SCR	On	0.09687	0.09687	0.09687	0.09687	Illustrative and Final Base Cases
Charles R Lowman	56_B_3	AL	SCR	Off	0.26962	0.0661904	0.26962	0.0661904	Illustrative and Final Base Cases

Facility	UniqueID	State	Control	Control Operation Assumed in 2015	M1	M2	M3	M4	Updated For:
St. Johns River Power	207_B_1	FL	SCR	Off	0.39831	0.1506	0.39831	0.1506	Illustrative and Final Base Cases
St. Johns River Power	207_B_2	FL	SCR	Off	0.37327	0.15426138	0.37327	0.15426138	Illustrative and Final Base Cases
Alcoa Allowance Management Inc	6705_B_4	IN	SCR	Off	0.29154	0.13936865	0.29154	0.13936865	Illustrative and Final Base Cases
East Bend	6018_B_2	KY	SCR	Off	0.26237	0.12427138	0.26237	0.12427138	Illustrative and Final Base Cases
Ghent	1356_B_4	KY	SCR	On	0.079	0.079	0.079	0.079	Illustrative and Final Base Cases
Mill Creek	1364_B_3	KY	SCR	On	0.17013	0.07287071	0.17013	0.07287071	Illustrative and Final Base Cases
Trimble County	6071_B_1	KY	SCR	On	0.13046	0.13046	0.13046	0.13046	Illustrative and Final Base Cases
New Madrid Power Plant	2167_B_2	MO	SCR	On	0.2158	0.0958	0.2158	0.0958	Illustrative Base Case Only
Thomas Hill Energy Center	2168_B_MB1	MO	SCR	On	0.1533	0.1533	0.1533	0.1533	Illustrative and Final Base Cases
Thomas Hill Energy Center	2168_B_MB3	MO	SCR	Off	0.24292	0.11226678	0.24292	0.11226678	Illustrative and Final Base Cases
Belews Creek	8042_B_2	NC	SCR	On	0.11961	0.11961	0.11961	0.11961	Illustrative and Final Base Cases
G G Allen	2718_B_3	NC	SNCR	Off	0.31846	0.21107385	0.31846	0.21107385	Illustrative and Final Base Cases
G G Allen	2718_B_4	NC	SNCR	Off	0.31545	0.2127439	0.31545	0.2127439	Illustrative and Final Base Cases
Marshall	2727_B_3	NC	SCR	On	0.14646	0.14646	0.14646	0.14646	Illustrative and Final Base Cases
Mayo	6250_B_1A	NC	SCR	On	0.16007	0.16007	0.16007	0.16007	Illustrative and Final Base Cases
Mayo	6250_B_1B	NC	SCR	On	0.15995	0.15995	0.15995	0.15995	Illustrative and Final Base Cases
Roxboro	2712_B_2	NC	SCR	On	0.15847	0.15847	0.15847	0.15847	Illustrative and Final Base Cases
Gen J M Gavin	8102_B_1	OH	SCR	On	0.14649	0.14649	0.14649	0.14649	Illustrative and Final Base Cases
Bruce Mansfield	6094_B_3	PA	SCR	On	0.14835	0.07660	0.14835	0.07660	Illustrative and Final Base Cases
Homer City	3122_B_1	PA	SCR	Off	0.38642	0.18753077	0.38642	0.18753077	Illustrative and Final Base Cases
Homer City	3122_B_3	PA	SCR	off	0.2532	0.1921	0.2532	0.1921	Illustrative Base Case Only
Harrison Power Station	3944_B_1	WV	SCR	off	0.2608	0.1909	0.2608	0.1909	Illustrative and Final Base Cases
John E Amos	3935_B_3	WV	SCR	On	0.10547	0.10547	0.10547	0.10547	Illustrative and Final Base Cases
Pleasants Power Station	6004_B_2	WV	SCR	Off	0.40121	0.12634593	0.40121	0.12634593	Illustrative and Final Base Cases
Curtis H. Stanton	564_B_2	FL	SCR	On	0.12615	0.12615	0.12615	0.12615	Final Base Case

Facility	UniqueID	State	Control	Control Operation Assumed in 2015	M1	M2	M3	M4	Updated For:
Energy Center									
Dallman	963_B_33	IL	SCR	On	0.06581	0.06581	0.06581	0.06581	Final Base Case
Gibson	6113_B_1	IN	SCR	On	0.1048	0.1048	0.1048	0.1048	Final Base Case
Gibson	6113_B_4	IN	SCR	On	0.10096	0.10096	0.10096	0.10096	Final Base Case
Merom	6213_B_2SG1	IN	SCR	On	0.05868	0.05868	0.05868	0.05868	Final Base Case
Merom	6213_B_1SG1	IN	SCR	On	0.06041	0.06041	0.06041	0.06041	Final Base Case
Paradise	1378_B_2	KY	SCR	On	0.10458	0.10458	0.10458	0.10458	Final Base Case
Dan E Karn	1702_B_2	MI	SCR	On	0.04316	0.04316	0.04316	0.04316	Final Base Case
Asbury	2076_B_1	MO	SCR	On	0.26045	0.10135	0.26045	0.10135	Final Base Case
Asheville	2706_B_2	NC	SCR	On	0.09541	0.09541	0.09541	0.09541	Final Base Case
Winyah	6249_B_3	SC	SCR	On	0.07933	0.07933	0.07933	0.07933	Final Base Case
Bruce Mansfield	6094_B_1	PA	SCR	Off	0.22342	0.22342	0.22342	0.22342	Final Base Case
Cliffside	2721_B_5	NC	SCR	On	0.09656	0.09656	0.09656	0.09656	Final Base Case
Pleasants Power Station	6004_B_1	WV	SCR	Off	0.24282	0.24282	0.24282	0.24282	Final Base Case
Homer City	3122_B_2	PA	SCR	Off	0.44169	0.35589	0.44169	0.35589	Final Base Case
Kyger Creek	2876_B_4	OH	SCR	Off	0.24184	0.24184	0.24184	0.24184	Final Base Case
Boswell Energy Center	1893_B_4	MN	SNCR	On	0.10958	0.10958	0.10958	0.10958	Final Base Case
John E Amos	3935_B_1	WV	SCR	On	0.07101	0.07101	0.07101	0.07101	Final Base Case
Harrison Power Station	3944_B_2	WV	SCR	Off	0.3459	0.3459	0.3459	0.3459	Final Base Case
Bruce Mansfield	6094_B_2	PA	SCR	On	0.16302	0.16302	0.16302	0.16302	Final Base Case
Mitchell (WV)	3948_B_1	WV	SCR	On	0.08668	0.08668	0.08668	0.08668	Final Base Case
Mill Creek	1364_B_4	KY	SCR	On	0.15951	0.15951	0.15951	0.15951	Final Base Case
G G Allen	2718_B_5	NC	SNCR	Off	0.30387	0.30387	0.30387	0.30387	Final Base Case
G G Allen	2718_B_1	NC	SNCR	Off	0.28798	0.28798	0.28798	0.28798	Final Base Case
Kyger Creek	2876_B_3	OH	SCR	Off	0.16511	0.23618	0.16511	0.23618	Final Base Case
New Madrid Power Plant	2167_B_2	MO	SCR	On	0.13698	0.13698	0.13698	0.13698	Final Base Case (updated from Illustrative update)
G G Allen	2718_B_2	NC	SNCR	Off	0.28526	0.28526	0.28526	0.28526	Final Base Case
E D Edwards	856_B_3	IL	SCR	On	0.06771	0.06771	0.06771	0.06771	Final Base Case
HMP&L Station 2	1382_B_H1	KY	SCR	On	0.1196	0.1196	0.1196	0.1196	Final Base Case
Coffeen	861_B_01	IL	SCR	On	0.07086	0.07086	0.07086	0.07086	Final Base Case
Killen Station	6031_B_2	OH	SCR	Off	0.38806	0.23344	0.38806	0.23344	Final Base Case
IPL - Petersburg	994_B_2	IN	SCR	Off	0.22993	0.22993	0.22993	0.22993	Final Base Case

Facility	UniqueID	State	Control	Control Operation Assumed in 2015	M1	M2	M3	M4	Updated For:
Generating Station									
Springerville Generating Station	8223_B_4	AZ	SCR	On	0.08189	0.08189	0.08189	0.08189	Final Base Case
Harrison Power Station	3944_B_3	WV	SCR	Off	0.27488	0.33867	0.27488	0.33867	Final Base Case
Roxboro	2712_B_4B	NC	SCR	On	0.14692	0.14692	0.14692	0.14692	Final Base Case
Roxboro	2712_B_4A	NC	SCR	On	0.14642	0.14642	0.14642	0.14642	Final Base Case
HMP&L Station 2	1382_B_H2	KY	SCR	On	0.14255	0.09763	0.14255	0.09763	Final Base Case
Marshall	2727_B_1	NC	SNCR	Off	0.26942	0.26942	0.26942	0.26942	Final Base Case
Marshall	2727_B_2	NC	SNCR	Off	0.26585	0.26585	0.26585	0.26585	Final Base Case
Miami Fort Power Station	2832_B_8	OH	SCR	On	0.163	0.163	0.163	0.163	Final Base Case
W A Parish	3470_B_WAP5	TX	SCR	On	0.05939	0.05939	0.05939	0.05939	Final Base Case
Crystal River	628_B_5	FL	SCR	On	0.06201	0.06201	0.06201	0.06201	Final Base Case
Cumberland	3399_B_1	TN	SCR	On	0.07778	0.07778	0.07778	0.07778	Final Base Case
Homer City	3122_B_3	PA	SCR	Off	0.43422	0.28883	0.43422	0.28883	Final Base Case (updated from Illustrative update)

Preventing the Immediate Retirement of Hardwired Coal-to-gas (C2G) Converting Plants

Hardwired C2G retrofits in NEEDS and in the run are prevented from retiring based on an exogenous ramp rate. The limits are calculated based on the assumption that none of the units can retire in 2014 and all of them can retire in 2030. The following limits in MW of coal-to-gas retrofitting capacity that may be retired in each run-year were applied before 2030.

Year	Base Case Limit (MW)
2020	6332
2023	9498
2025	11608
2028	14774

HCl Emissions from Lignite and Subbituminous Coals Reflecting Impact of Ash Chemistry

To account for the effect of ash chemistry on HCl emissions, the HCl content of lignite and subbituminous coals is now reduced by 95%. Units with ESPH that burn subbituminous and lignite coals do not see any HCL removal.

Chapter 7

Table 7-1 Run Years and Analysis Year Mapping Used in the EPA Base Case v.5.16

Run Year	Years Represented
2020	2020-2021
2023	2022-2024
2025	2025-2026
2028	2027-2029
2030	2030-2031
2035	2032-2037
2040	2038-2042
2045	2043-2047

Table 7-4 Trading and Banking Rules in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

	SIP Call - Ozone Seasons NO _x	WRAP- SO ₂	RGGI - CO ₂	
Coverage	All fossil units > 25 MW ¹	All fossil units > 25 MW ²	All fossil units > 25 MW ³	
Timing	Ozone Season (May - September)	Annual	Annual	
Size of Initial Bank (MTons)	The bank starting in 2016 is assumed to be zero	The bank starting in 2018 is assumed to be zero	2016:	107,743
Total Allowances (MTons)	2016 - 2054: 72.845	2018 - 2054: 89.6	2016:	68,459
			2017:	66,297
			2018:	64,188
			2019:	62,132
			2020:	60,128
			2021 - 2054:	78,175

Notes:

¹Rhode Island, Connecticut, Delaware, District of Columbia, Massachusetts, North Carolina, South Carolina are the NO_x SIP Call states not covered by the CSAPR Ozone Season program.

² New Mexico, Utah, Wyoming

³ Connecticut, Delaware, Maine, New Hampshire, New York, Vermont, Rhode Island, Massachusetts, Maryland

Chapter 9

Coal Supply Curves

Since EPA v.5.15 coal supply assumptions were developed, lower oil prices have lowered operation costs and some rail transportation costs. In general, mining costs have been reduced by about 8% since 2013 according to WoodMackenzie North America Thermal Coal Long-term Outlook H1 2015. EPA updated its supply curves in v.516 to reflect an average 8% decrease in production cost.

Table 9-19 Coal Exports

Name	2020	2023	2025	2028	2030	2035	2040	2045
Central Appalachia - Bituminous Medium Sulfur	4.93	5.71	6.29	7.29	8.03	10.3	13	13
East Interior - Bituminous High Sulfur	0	0	0.25	1.45	2.2	4.15	6.61	6.61
East Interior - Bituminous Medium Sulfur	4.96	5.74	6.08	5.87	5.87	6.14	6.51	6.51
Northern Appalachia - Bituminous High Sulfur	2.64	3.05	3.37	3.9	4.3	5.49	0	0
Northern Appalachia - Bituminous Medium Sulfur	0	0	0	0	0	0	0	0
Rocky Mountain - Bituminous Low Sulfur	3.33	2.97	2.61	1.89	2.08	2.66	3.39	3.39
Western Montana - Bituminous Low Sulfur	0	0	0	0	0	1.92	2.45	2.45
Western Montana - Subbituminous Low Sulfur	0.18	1.15	1.27	1.47	1.62	0	0	0
Wyoming PRB - Subbituminous Low Sulfur	6.55	6.55	7.2	8.29	9.14	11.7	14.9	14.9

Table 9-20 Residential, Commercial, and Industrial Demand

Name	2020	2023	2025	2028	2030	2035	2040	2045
Central Appalachia - Bituminous Low Sulfur	2.99	3.08	3.16	3.24	3.26	3.33	3.49	3.49
Central Appalachia - Bituminous Medium Sulfur	8.84	9.1	9.35	9.59	9.67	9.88	10.39	10.39
East Interior - Bituminous High Sulfur	6.2	6.32	6.43	6.52	6.52	6.52	6.58	6.58
East Interior - Bituminous Medium Sulfur	0.93	0.94	0.96	0.97	0.98	0.99	1.02	1.02
Northern Appalachia - Bituminous High Sulfur	0.56	0.57	0.58	0.59	0.59	0.59	0.59	0.59
Northern Appalachia - Bituminous Medium Sulfur	2.53	2.51	2.53	2.6	2.62	2.66	2.78	2.78
Rocky Mountain - Bituminous Low Sulfur	5.29	5.4	5.49	5.56	5.57	5.59	5.72	5.72
Southern Appalachia - Bituminous Low Sulfur	0.21	0.21	0.22	0.23	0.23	0.23	0.25	0.25
Southern Appalachia - Bituminous Medium Sulfur	1.21	1.26	1.3	1.34	1.36	1.4	1.49	1.49
Wyoming PRB - Subbituminous Low Sulfur	4.44	4.56	4.66	4.75	4.77	4.82	4.97	4.97
Dakota Lignite - Lignite Medium Sulfur	5.48	5.6	5.7	5.78	5.78	5.78	5.84	5.84
West Interior - Bituminous High Sulfur	0.35	0.36	0.37	0.38	0.39	0.4	0.42	0.42
Arizona/New Mexico - Bituminous Low Sulfur	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
Arizona/New Mexico - Subbituminous Medium Sulfur	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Western Montana - Subbituminous Low Sulfur	0	0	0	0	0	0	0	0
Western Wyoming - Subbituminous Medium Sulfur	3.78	3.86	3.92	3.97	3.97	3.98	4.06	4.06
Western Montana - Subbituminous Medium Sulfur	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

Table 9-21 Coal to Liquids Demand

	2020	2023	2025	2028	2030	2035	2040	2045
National	0	0	0	0	0	0	0	0

Coal Transportation Costs

Diesel fuel prices have dropped significantly between the finalization of the coal transportation assumptions for EPA Base Case v.5.13 in March 2012 and the present. Specifically, the U.S. Energy Information Administration's ("EIA") On-Highway Diesel Fuel ("HDF") price dropped from an average of \$3.97/gallon during 2012 to an average of \$2.71/gallon during 2015 (a decrease of about 32%.)

As a result of this significant decrease in diesel fuel prices, EPA updated the coal transportation matrix to address two issues:

- 1) To update coal transportation rates for the movement of Powder River Basin ("PRB") coal to current market rate levels, and
- 2) To assess whether rail rates for the transportation of coal within the Eastern or Midwestern United States also needed to be updated to account for the changes in diesel fuel prices.

The updates to the rail rates for the transportation of PRB coal are shown in Table 9-25 below. Part A of the table shows the current market rate levels (2015 rates in 2015\$). Part B of the table shows the conversion of these current market rate levels into the units used in EPA Base Case v.5.13 (2012 rates in 2011\$).

As part of this preliminary update, the question of whether rail rates for coal transportation within the Eastern or Midwestern U.S. needed to be updated to account for the change in fuel prices was assessed. The Eastern and Midwestern rail rates in the EPA Base Case v.5.13 coal transportation matrix have not been adjusted downward at this time to account for the effects of lower diesel fuel prices as discussed below.

Effective January 1, 2015, CSX Transportation ("CSX"), which is one of the two major coal-hauling railroads in the Eastern U.S., revised its fuel surcharge program to raise its threshold HDF price for assessing a fuel surcharge from \$2.00/gallon to \$3.75/gallon.⁵ This has the effect of making fuel costs part of CSX's base rates at any HDF price below \$3.75/gallon. In other words, CSX has now adopted a strategy for setting rail rates that is relatively insensitive to fuel prices.

This makes CSX's pricing strategy more like the pricing strategy of the Norfolk Southern Railway ("NS"), which is CSX's main competitor for eastern coal business, and often does not include an explicit fuel surcharge in its contracts with coal shippers.

CSX's new fuel surcharge program also appears to suggest that, when its existing contracts with coal shippers expire, CSX is unlikely to adjust the base rates in its new contract offers downward to pass any fuel cost savings through to the shippers.

In this update to the coal transportation matrix, updates to the Eastern and Midwestern rail rates to account for issues other than the change in fuel prices, and updates to the transportation rate estimates used for other modes of transportation, were not considered.

⁵ Based on CSXT Publications 8661-B (old) and 8662 (new.)

Table 9-25 Updates to Rail Rates for the Movement of PRB Coal

A. 2015 Rail Rates (in 2015\$)

Originating Coal Supply Region	Mileage Block	Captive	High Cost Competitive	Low Cost Competitive
West (PRB coal, moving on BNSF or UP only)	< 300	29	20	20
	300 +	23	16.5	16.5
West (PRB coal, transferring to railroad other than BNSF or UP)	All	Use low-cost competitive assumption for BNSF or UP distance, plus an assumption of 33 mills per ton-mile for distance on additional railroad, with a minimum of \$2.20/ton on additional railroad.		

B. Updated Input to IPM: Updated 2012 Rates (in 2011\$)

Originating Coal Supply Region	Mileage Block	Captive	High Cost Competitive	Low Cost Competitive
West (PRB coal, moving on BNSF or UP only)	< 300	26.9	18.5	18.5
	300 +	21.3	15.3	15.3
West (PRB coal, transferring to railroad other than BNSF or UP)	All	Use low-cost competitive assumption for BNSF or UP distance, plus an assumption of 30.6 mills per ton-mile for distance on additional railroad, with a minimum of \$2.04/ton on additional railroad.		

Notes: 1. 1 mill = 1/10 cent. 2. All of these rail rates include railcar costs and fuel surcharges. 3. The designations of East, Midwest, or West for the rail rates relate to the coal supply region of origin. East = Appalachian coal supply regions. Midwest = Illinois Basin, Central West, and Gulf coal supply regions. West = Southwest, Rockies, PRB, and Great Plains supply regions.

Conversions:

- 2015 Rate in 2011\$ = 2015 Rate in 2015\$ / 1.0625. (1.0625 = change in GDP-IPD during 2011-2015 per Bureau of Economic Analysis, as of January 2016.)
- 2012 Rate in 2011\$ = 2015 Rate in 2011\$ / (1.005³ = 1.0151)
(Rail rates in IPM currently escalate by 0.5%/year in real terms, so this ensures that the 2015 rail rate calculated by IPM will match the actual 2015 market data.)
- Therefore, 2012 Rate in 2011\$ = 2015 Rate in 2015\$ / 1.0785

Excerpt from Table 9-23 Coal Transportation Matrix

Link #	Plant Name	Plant State	ORIS Plant Code	Coal Supply Region Code	Coal Supply Region Description	Total Cost (2012 Rate in 2011\$/Ton)	Escalation/Year (2013-2025)	Escalation/Year (2026-2050)
4	Barry	AL	3	CG	Colorado, Green River	\$44.85	1.0039	1.0039
5	Barry	AL	3	CR	Colorado, Raton	\$42.85	1.0039	1.0039
6	Barry	AL	3	CU	Colorado, Uinta	\$48.85	1.0040	1.0040
7	Barry	AL	3	IL	Illinois	\$20.50	1.0031	1.0031
8	Barry	AL	3	IN	Indiana	\$24.00	1.0034	1.0034
9	Barry	AL	3	KE	Kentucky East	\$26.04	1.0031	1.0031
10	Barry	AL	3	KW	Kentucky West	\$19.78	1.0031	1.0031
11	Barry	AL	3	PW	Pennsylvania, West	\$25.77	1.0028	1.0028
12	Barry	AL	3	WH	Wyoming, Powder River Basin (8800)	\$34.12	1.0036	1.0036
13	Barry	AL	3	WL	Wyoming, Powder River Basin (8400)	\$33.97	1.0036	1.0036
14	Barry	AL	3	WN	West Virginia, North	\$23.04	1.0028	1.0028
15	Barry	AL	3	WS	West Virginia, South	\$27.45	1.0031	1.0031
16	Barry	AL	3	I1	Imports-1 (Colombia)	\$14.75	0.9995	0.9995
17	Charles R Lowman	AL	56	CG	Colorado, Green River	\$45.25	1.0039	1.0039
18	Charles R Lowman	AL	56	CR	Colorado, Raton	\$43.25	1.0039	1.0039
19	Charles R Lowman	AL	56	CU	Colorado, Uinta	\$49.25	1.0040	1.0040
20	Charles R Lowman	AL	56	IL	Illinois	\$20.90	1.0031	1.0031

Excerpt from Table 9-24 Coal Supply Curves

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2011\$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	AL	BB	E1	25.5	48.24	0.1	0.0
2020	AL	BB	E2	25.5	76.32	0.1	0.1
2020	AL	BB	E3	25.5	83.11	1.2	8.1
2020	AL	BB	E4	25.5	89.60	0.1	1.4
2020	AL	BB	E5	25.5	97.95	0.5	4.5
2020	AL	BB	E6	25.5	103.47	0.1	0.7
2020	AL	BB	E7	25.5	105.29	0.1	0.9
2020	AL	BB	E8	25.5	111.75	0.1	0.8
2020	AL	BB	N1	25.5	117.54	0.1	500.0
2023	AL	BB	E1	25.5	51.95	0.1	0.0
2023	AL	BB	E2	25.5	82.19	0.1	0.1
2023	AL	BB	E3	25.5	89.50	1.2	8.1
2023	AL	BB	E4	25.5	96.49	0.1	1.4
2023	AL	BB	E5	25.5	105.48	0.5	4.5
2023	AL	BB	E6	25.5	111.43	0.1	0.7
2023	AL	BB	E7	25.5	113.38	0.1	0.9
2023	AL	BB	E8	25.5	120.34	0.1	0.8
2023	AL	BB	N1	25.5	126.57	0.1	500.0

Chapter 10

Table 10-3 List of Key Pipelines

Link	Pipeline
1 - 4	Iroquois Pipeline Co
1 - 81	Maritimes & Northeast Pipeline
1 - 104	Tennessee Gas Pipeline Co
1 - 104	Algonquin Gas Trans Co
3 - 104	Iroquois Pipeline Co
5 - 6	Tennessee Gas Pipeline Co
5 - 104	Tennessee Gas Pipeline Co
5 - 117	Tennessee Gas Pipeline Co
6 - 5	National Fuel Gas Supply Co
6 - 11	Dominion Trans (CNG)
6 - 11	Columbia Gas Trans Corp
6 - 19	Dominion Trans (CNG)
6 - 79	Texas Eastern Trans Corp
6 - 80	Dominion Trans (CNG)
6 - 80	Columbia Gas Trans Corp
6 - 118	Dominion Trans (CNG)
6 - 118	Tennessee Gas Pipeline Co
8 - 18	Southern Natural Gas Co
8 - 54	Transcontinental Gas Pipeline Co
8 - 95	Transcontinental Gas Pipeline Co
8 - 96	Southern Natural Gas Co
9 - 8	Southern Natural Gas Co
10 - 96	Florida Gas Trans Co
11 - 6	Texas Eastern Trans Corp
11 - 6	Tennessee Gas Pipeline Co
11 - 13	Dominion Trans (CNG)
11 - 18	Tennessee Gas Pipeline Co
11 - 80	Columbia Gas Trans Corp
12 - 11	Columbia Gas Trans Corp
12 - 17	ANR Pipeline Co
12 - 17	Panhandle Eastern Pipeline Co
12 - 98	ANR Pipeline Co
13 - 11	Dominion Trans (CNG)
13 - 11	Texas Eastern Trans Corp
13 - 14	Panhandle Eastern Pipeline Co
14 - 12	Panhandle Eastern Pipeline Co
14 - 12	ANR Pipeline Co
14 - 13	Texas Eastern Trans Corp
14 - 98	Trunkline Gas Co
15 - 14	Panhandle Eastern Pipeline Co
15 - 16	Nat Gas Pipeline Co of America

Link	Pipeline
16 - 20	ANR Pipeline Co
16 - 98	ANR Pipeline Co
17 - 78	Great Lakes Gas Trans Ltd
17 - 98	Panhandle Eastern Pipeline Co
17 - 99	Michcon
18 - 8	East Tennessee Nat Gas Co
18 - 11	Texas Eastern Trans Corp
18 - 11	Tennessee Gas Pipeline Co
18 - 13	Columbia Gas Trans Corp
18 - 56	Tennessee Gas Pipeline Co
18 - 61	Columbia Gas Trans Corp
18 - 80	Columbia Gas Trans Corp
18 - 80	Tennessee Gas Pipeline Co
18 - 92	East Tennessee Nat Gas Co
18 - 116	Texas Eastern Trans Corp
19 - 79	Transcontinental Gas Pipeline Co
19 - 92	Columbia Gas Trans Corp
19 - 93	Dominion Trans (CNG)
21 - 15	Panhandle Eastern Pipeline Co
23 - 20	ANR Pipeline Co
23 - 22	Great Lakes Gas Trans Ltd
23 - 25	Great Lakes Gas Trans Ltd
23 - 99	Great Lakes Gas Trans Ltd
23 - 106	Great Lakes Gas Trans Ltd
24 - 16	Nat Gas Pipeline Co of America
25 - 23	Great Lakes Gas Trans Ltd
25 - 77	Great Lakes Gas Trans Ltd
26 - 24	Nat Gas Pipeline Co of America
27 - 24	Williston Basin Pipeline Co
27 - 41	Williston Basin Pipeline Co
28 - 15	Panhandle Eastern Pipeline Co
28 - 16	ANR Pipeline Co
28 - 21	Panhandle Eastern Pipeline Co
28 - 26	Nat Gas Pipeline Co of America
28 - 29	Colorado Interstate Gas
28 - 68	Colorado Interstate Gas
28 - 108	Nat Gas Pipeline Co of America
28 - 109	Southern Star Central (Williams)
29 - 31	Colorado Interstate Gas
30 - 31	Colorado Interstate Gas
30 - 48	Northwest Pipeline Corp
30 - 113	Northwest Pipeline Corp
31 - 28	Southern Star Central (Williams)
31 - 29	Colorado Interstate Gas
32 - 33	El Paso Nat Gas Co

Link	Pipeline
32 - 33	Transwestern Pipeline Co
32 - 113	Northwest Pipeline Corp
33 - 63	El Paso Nat Gas Co
33 - 68	Transwestern Pipeline Co
33 - 97	El Paso Nat Gas Co
33 - 101	El Paso Nat Gas Co
33 - 101	Transwestern Pipeline Co
34 - 27	Williston Basin Pipeline Co
34 - 31	Wyoming Interstate Co
36 - 37	Socal Gas
36 - 103	Socal Gas
37 - 38	Pacific Gas & Electric
40 - 41	Northwest Energy
41 - 83	Williston Basin Pipeline Co
43 - 73	Terasen (BC Gas)
44 - 45	Northwest Pipeline Corp
45 - 46	Northwest Pipeline Corp
46 - 48	Northwest Pipeline Corp
48 - 47	Northwest Pipeline Corp
51 - 66	Texas Eastern Trans Corp
54 - 8	Transcontinental Gas Pipeline Co
54 - 8	Southern Natural Gas Co
55 - 114	Transcontinental Gas Pipeline Co
56 - 18	Tennessee Gas Pipeline Co
56 - 54	Transcontinental Gas Pipeline Co
56 - 54	Southern Natural Gas Co
56 - 58	Gulf South (Koch)
56 - 114	Gulf South (Koch)
57 - 58	Tennessee Gas Pipeline Co
57 - 58	Southern Natural Gas Co
57 - 58	Texas Eastern Trans Corp
58 - 56	Transcontinental Gas Pipeline Co
58 - 56	Southern Natural Gas Co
58 - 56	Tennessee Gas Pipeline Co
58 - 60	Transcontinental Gas Pipeline Co
58 - 60	Southern Natural Gas Co
58 - 60	Texas Eastern Trans Corp
58 - 60	Tennessee Gas Pipeline Co
58 - 60	Florida Gas Trans Co
58 - 114	Florida Gas Trans Co
58 - 114	Gulf South (Koch)
58 - 116	Texas Eastern Trans Corp
59 - 57	Tennessee Gas Pipeline Co
60 - 61	Trunkline Gas Co
60 - 61	Gulf South (Koch)

Link	Pipeline
60 - 61	ANR Pipeline Co
60 - 61	Tennessee Gas Pipeline Co
60 - 65	Nat Gas Pipeline Co of America
61 - 18	Tennessee Gas Pipeline Co
61 - 56	Southern Natural Gas Co
61 - 115	ANR Pipeline Co
61 - 115	Trunkline Gas Co
61 - 116	Texas Eastern Trans Corp
62 - 60	Tennessee Gas Pipeline Co
62 - 60	ANR Pipeline Co
62 - 60	Trunkline Gas Co
62 - 60	Transcontinental Gas Pipeline Co
62 - 60	Texas Eastern Trans Corp
63 - 53	El Paso Nat Gas Co
63 - 64	Epgt Texas Pipeline (Valero)
63 - 64	Txu Lonestar Gas Pipeline
63 - 65	Oasis
63 - 66	Epgt Texas Pipeline (Valero)
63 - 68	Epgt Texas Pipeline (Valero)
63 - 68	Nat Gas Pipeline Co of America
63 - 97	El Paso Nat Gas Co
64 - 65	Txu Lonestar Gas Pipeline
64 - 108	Nat Gas Pipeline Co of America
65 - 60	Trunkline Gas Co
65 - 60	Transcontinental Gas Pipeline Co
65 - 60	Texas Eastern Trans Corp
65 - 61	Tennessee Gas Pipeline Co
65 - 107	Nat Gas Pipeline Co of America
66 - 51	Tennessee Gas Pipeline Co
66 - 65	Epgt Texas Pipeline (Valero)
66 - 65	Texas Eastern Trans Corp
66 - 65	Tennessee Gas Pipeline Co
66 - 65	Nat Gas Pipeline Co of America
66 - 65	Transcontinental Gas Pipeline Co
67 - 65	Nat Gas Pipeline Co of America
67 - 66	Transcontinental Gas Pipeline Co
68 - 28	Nat Gas Pipeline Co of America
68 - 108	Nat Gas Pipeline Co of America
77 - 25	Great Lakes Gas Trans Ltd
78 - 106	Union Gas
79 - 105	Texas Eastern Trans Corp
79 - 105	Transcontinental Gas Pipeline Co
80 - 11	Dominion Trans (CNG)
80 - 19	Columbia Gas Trans Corp
80 - 92	Columbia Gas Trans Corp

Link	Pipeline
83 - 31	Colorado Interstate Gas
92 - 18	Dominion Trans (CNG)
92 - 93	Columbia Gas Trans Corp
94 - 19	Transcontinental Gas Pipeline Co
94 - 92	Transcontinental Gas Pipeline Co
94 - 93	Transcontinental Gas Pipeline Co
95 - 94	Transcontinental Gas Pipeline Co
97 - 52	El Paso Nat Gas Co
97 - 53	El Paso Nat Gas Co
97 - 102	El Paso Nat Gas Co
98 - 99	ANR Pipeline Co
99 - 17	Great Lakes Gas Trans Ltd
101 - 35	El Paso Nat Gas Co
101 - 36	Socal Gas
101 - 37	Pacific Gas & Electric
101 - 102	El Paso Nat Gas Co
102 - 36	Socal Gas
104 - 1	Iroquois Pipeline Co
104 - 3	Iroquois Pipeline Co
104 - 4	Tennessee Gas Pipeline Co
104 - 79	Columbia Gas Trans Corp
105 - 4	Transcontinental Gas Pipeline Co
105 - 4	Texas Eastern Trans Corp
105 - 104	Algonquin Gas Trans Co
106 - 5	Tennessee Gas Pipeline Co
107 - 15	Nat Gas Pipeline Co of America
107 - 61	Gulf South (Koch)
107 - 61	Centerpoint Energy (Reliant)
107 - 64	Txu Lonestar Gas Pipeline
107 - 111	Texas Eastern Trans Corp
108 - 28	ANR Pipeline Co
108 - 107	Nat Gas Pipeline Co of America
108 - 109	Nat Gas Pipeline Co of America
108 - 110	Centerpoint Energy (Reliant)
109 - 21	Southern Star Central (Williams)
110 - 107	Nat Gas Pipeline Co of America
110 - 109	Centerpoint Energy (Reliant)
110 - 111	Centerpoint Energy (Reliant)
111 - 112	Texas Eastern Trans Corp
111 - 115	Centerpoint Energy (Reliant)
112 - 15	Nat Gas Pipeline Co of America
113 - 30	Wyoming Interstate Co
114 - 54	Transcontinental Gas Pipeline Co
114 - 96	Florida Gas Trans Co
115 - 14	Trunkline Gas Co

Link	Pipeline
115 - 14	ANR Pipeline Co
116 - 18	Texas Eastern Trans Corp
116 - 58	Texas Eastern Trans Corp
117 - 5	Dominion Trans (CNG)
117 - 104	Dominion Trans (CNG)
117 - 105	Transcontinental Gas Pipeline Co
117 - 118	Transcontinental Gas Pipeline Co
117 - 118	Dominion Trans (CNG)
117 - 118	Tennessee Gas Pipeline Co
117 - 118	National Fuel Gas Supply Co
118 - 5	National Fuel Gas Supply Co

Table 10-4 U.S. and Canada Natural Gas Resources and Reserves

Region	Beginning of Year 2019	
	Undiscovered Dry Gas Resource (Tcf) (1)	Dry Gas Reserves (Tcf)
Lower 48 Onshore Non Associated	2,829	375
Conventional (includes tight)	598	78
Northeast	39	5
Gulf Coast	155	10
Midcontinent	102	14
Southwest	17	10
Rocky Mountain	271	39
West Coast	14	0
Shale Gas	2,170	289
Northeast	1,077	166
Gulf Coast	622	58
Midcontinent	151	25
Southwest	78	26
Rocky Mountain	224	13
West Coast	19	0
Coalbed Methane	60	8
Northeast	9	0
Gulf Coast	5	0
Midcontinent	8	1
Southwest	-	-
Rocky Mountain	37	6
West Coast	1	-
Lower 48 Offshore Non Associated	156	4
Gulf of Mexico	155	4
Pacific	1	-
Atlantic	-	-
Associated-Dissolved Gas	134	20
Alaska	51	8
Total U.S.	3,170	407
Canada Non Associated	901	68
Conventional and Tight	94	24
Shale Gas	731	43
Coalbed Methane	76	1
Canada Associated-Dissolved Gas	15	11
Total Canada	917	80
Total U.S and Canada	4,087	487

Table 10-5 Exploration and Development Assumptions

Region	Fraction of Hydrocarbons that are Natural Gas Liquids (NGLs) (Fraction)	Fraction of Hydrocarbons that are Crude Oil (Fraction)	Max Share of Resources that can be Developed per Year (Fraction)	Exploration, Development Drilling Required (Ft/Bcf)	Lease and Plant Use (Fraction)
(5) Niagara	0.265	0.016	0.10	10,000	0.06
(6) Leidy	0.155	0.814	0.10	4,096	0.03
(11) East Ohio	0.079	0.909	0.10	7,736	0.01
(12) Maumee/Defiance	0.090	0.321	0.10	10,000	0.01
(13) Lebanon	0.089	0.320	0.10	10,000	0.01
(14) Indiana	0.109	0.541	0.10	10,000	0.02
(15) South Illinois	0.120	0.594	0.10	10,000	0.36
(17) Southeast Michigan	0.110	0.544	0.10	10,000	0.05
(18) Tennessee/Kentucky	0.088	0.289	0.10	10,000	0.05
(21) Northern Missouri	0.008	0.911	0.10	10,000	0.05
(24) Ventura	0.008	0.911	0.10	10,000	0.34
(26) Nebraska	0.008	0.911	0.10	10,000	0.06
(28) Kansas	0.007	0.821	0.10	8,481	0.05
(29) East Colorado	0.164	0.802	0.10	9,843	0.06
(30) Opal	0.648	0.232	0.10	3,437	0.06
(31) Cheyenne	0.026	0.974	0.10	5,375	0.06
(32) San Juan Basin	0.066	0.081	0.10	5,557	0.15
(33) EPNG/TW	0.057	0.943	0.10	7,107	0.06
(34) North Wyoming	0.091	0.389	0.10	7,325	0.06
(35) South Nevada	0.350	0.265	0.10	8,149	0.06
(36) SOCAL Area	0.391	0.258	0.10	8,149	0.16
(37) Enhanced Oil Recovery Region	0.004	0.945	0.10	10,000	0.16
(38) PGE Area	0.340	0.248	0.10	8,149	0.16
(39) Pacific Offshore	0.026	0.785	0.10	2,500	0.16
(41) Montana/North Dakota	0.152	0.771	0.10	10,000	0.16
(45) Pacific Northwest	0.303	0.240	0.10	8,149	0.03
(49) Eastern Canada Offshore	0.085	0.104	0.10	10,000	0.07
(54) North Alabama	0.120	0.303	0.10	6,254	0.03
(55) Alabama Offshore	0.239	0.130	0.10	2,500	0.03
(56) North Mississippi	0.205	0.517	0.10	6,558	0.03
(57) East Louisiana Shelf	0.240	0.131	0.10	2,500	0.05
(58) Eastern Louisiana Hub	0.166	0.663	0.10	6,616	0.05
(59) Viosca Knoll/Desoto/Miss Canyon	0.000	1.000	0.10	2,500	0.05
(60) Henry Hub	0.265	0.705	0.10	6,616	0.05
(61) North Louisiana Hub	0.686	0.117	0.10	9,725	0.05
(62) Central and West Louisiana Shelf	0.239	0.130	0.10	2,500	0.05
(63) Southwest Texas	0.108	0.892	0.10	4,954	0.06
(64) Dallas/Ft Worth	0.642	0.285	0.10	5,408	0.06
(65) E. TX (Katy)	0.093	0.461	0.10	6,724	0.06
(66) S. TX	0.043	0.911	0.10	6,712	0.06

Region	Fraction of Hydrocarbons that are Natural Gas Liquids (NGLs) (Fraction)	Fraction of Hydrocarbons that are Crude Oil (Fraction)	Max Share of Resources that can be Developed per Year (Fraction)	Exploration, Development Drilling Required (Ft/Bcf)	Lease and Plant Use (Fraction)
(67) Offshore Texas	0.239	0.130	0.10	2,500	0.06
(68) NW TX	1.000	0.000	0.10	8,537	0.06
(69) Garden Banks	0.000	1.000	0.10	2,500	0.05
(70) Green Canyon	0.000	1.000	0.10	2,500	0.05
(71) Eastern Gulf	0.000	1.000	0.10	2,500	0.05
(72) North British Columbia	0.972	0.012	0.10	10,000	0.10
(74) Caroline	0.010	0.781	0.10	9,658	0.12
(76) Saskatchewan	0.009	0.394	0.10	10,000	0.09
(78) Dawn	0.073	0.104	0.10	10,000	0.09
(80) West Virginia	0.157	0.797	0.10	3,637	0.05
(83) Wind River Basin	0.007	0.600	0.10	5,475	0.06
(87) South Alaska	0.000	0.000	0.10	10,000	0.08
(89) North Alaska	0.000	0.000	0.10	10,000	0.99
(92) Southwest VA	0.046	0.159	0.10	7,718	0.03
(96) North Florida	0.163	0.412	0.10	6,558	0.26
(98) Southwest Michigan	0.109	0.541	0.10	10,000	0.05
(99) Northern Michigan	0.345	0.495	0.10	8,912	0.05
(107) Carthage	0.387	0.000	0.10	2,830	0.06
(108) Southwest Oklahoma	0.011	0.568	0.10	7,937	0.05
(109) Northeast Oklahoma	0.003	0.955	0.10	8,899	0.05
(110) Southeastern Oklahoma	0.034	0.698	0.10	4,444	0.05
(111) Northern Arkansas	0.825	0.163	0.10	3,990	0.05
(112) Southeast Missouri	0.006	0.868	0.10	10,000	0.05
(113) Uinta/Piceance	0.356	0.000	0.10	8,939	0.06
(114) South MS/AL	0.193	0.487	0.10	6,558	0.03
(115) West KY/TN	0.115	0.569	0.10	10,000	0.05
(117) Northeast PA	0.699	0.298	0.10	3,325	0.05
(118) Leidy	0.132	0.860	0.10	3,926	0.05

Figure 10-7 Resource Cost Curves at the Beginning of Year 2015

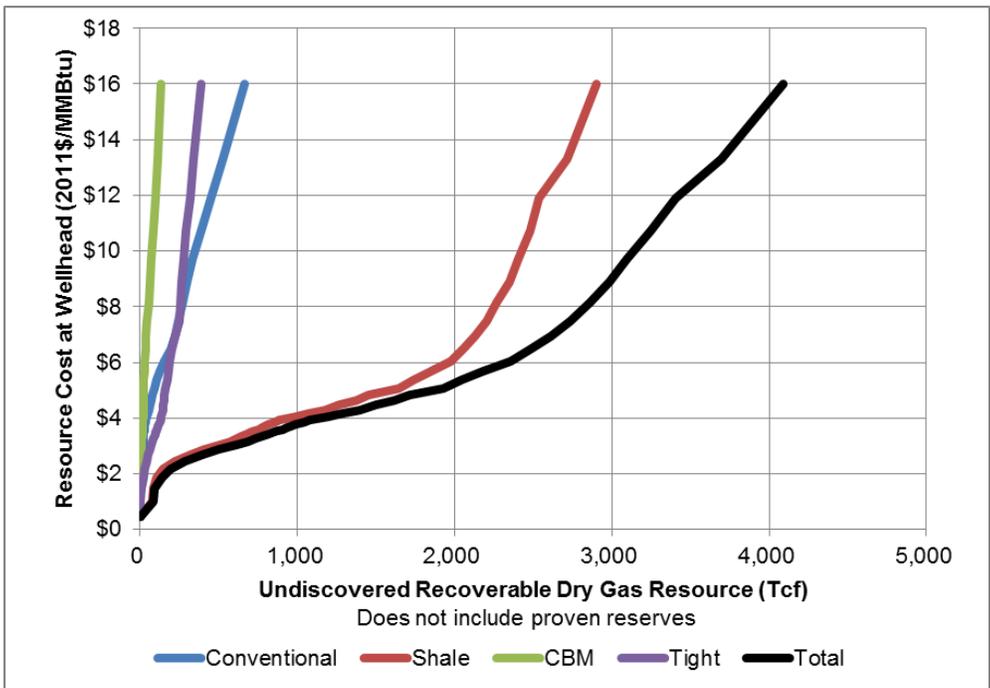


Figure 0-1 E&D and Production Technology Improvement Factor

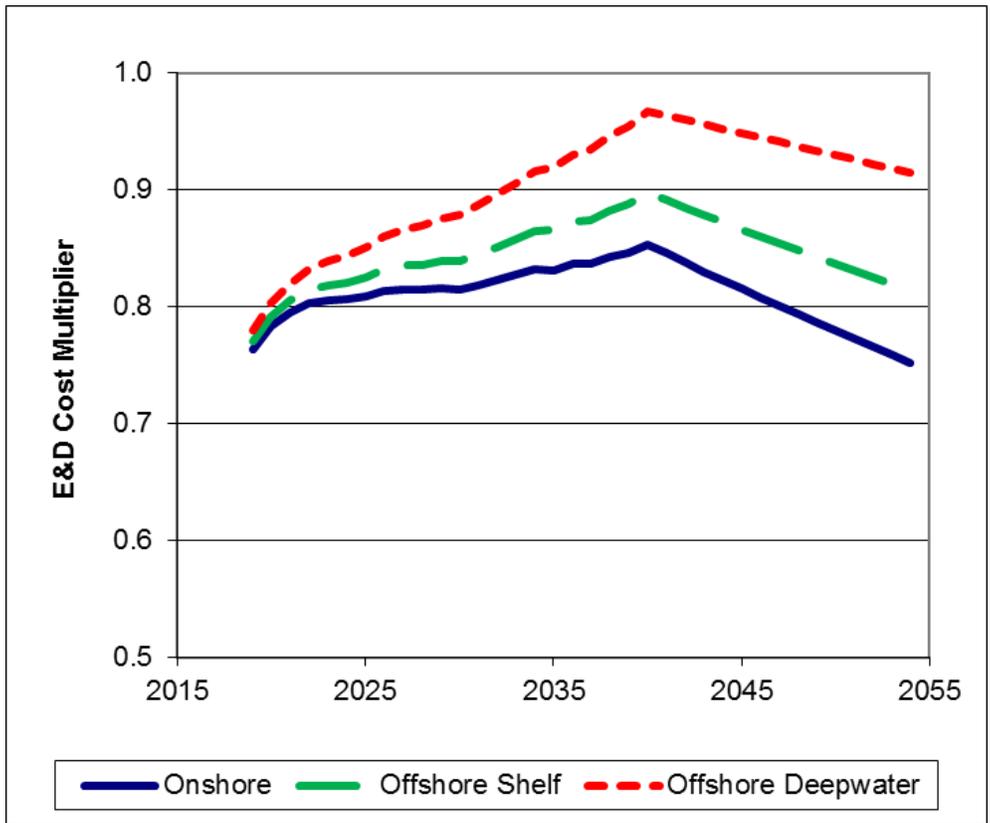


Figure 0-2 Incremental E&D Cost (BOY 2019) by Percentage of Dry Gas Resource Found

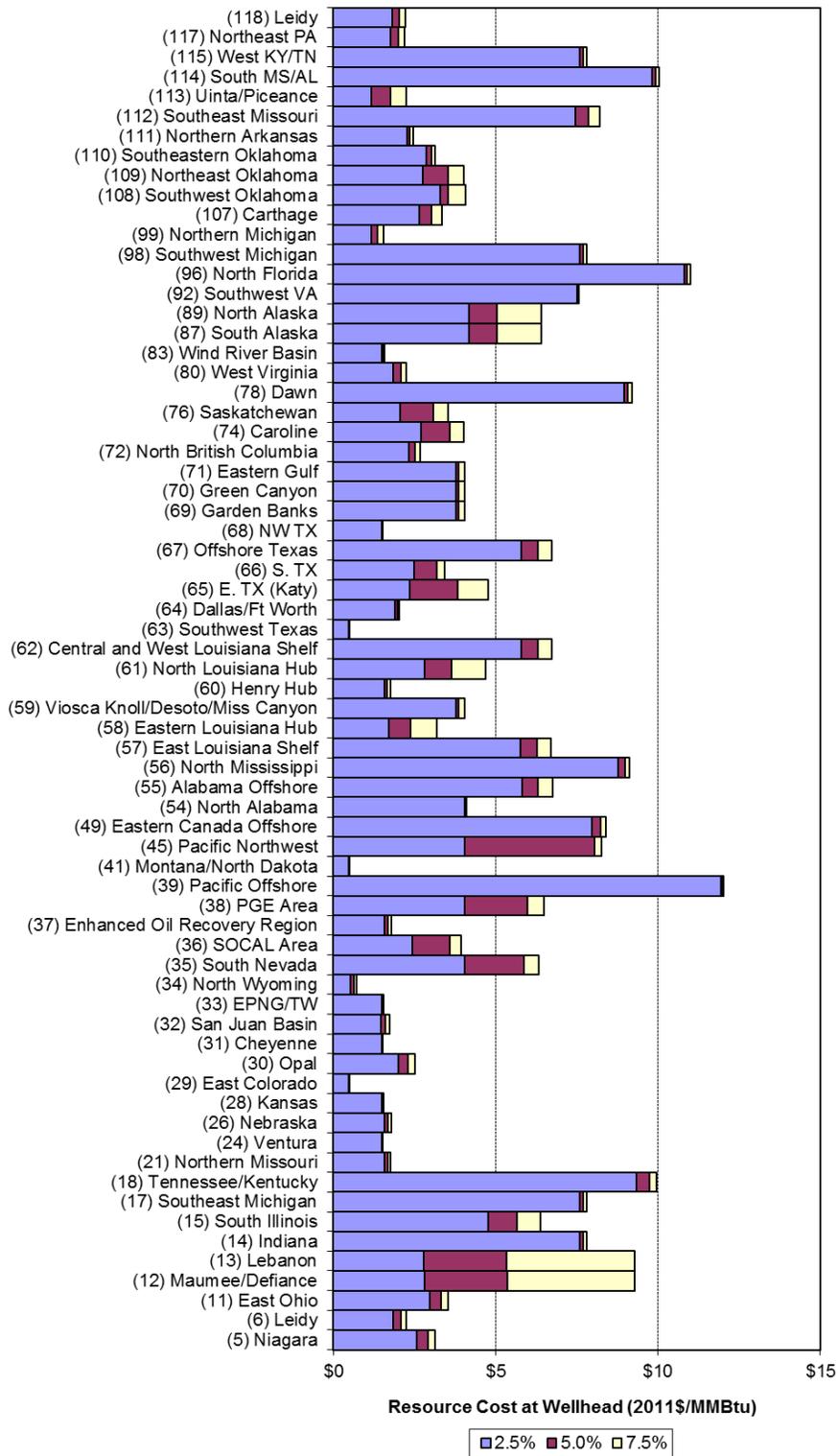


Figure 0-3 Drilling Rig Speed Constraint

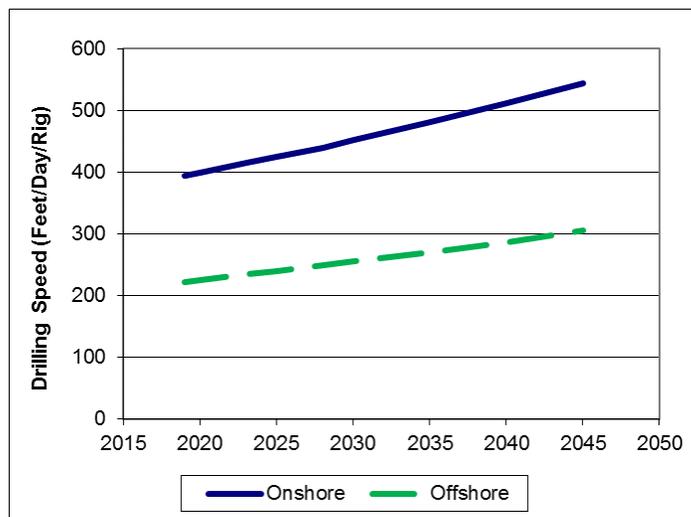


Figure 10-12 North American LNG Supply Curves

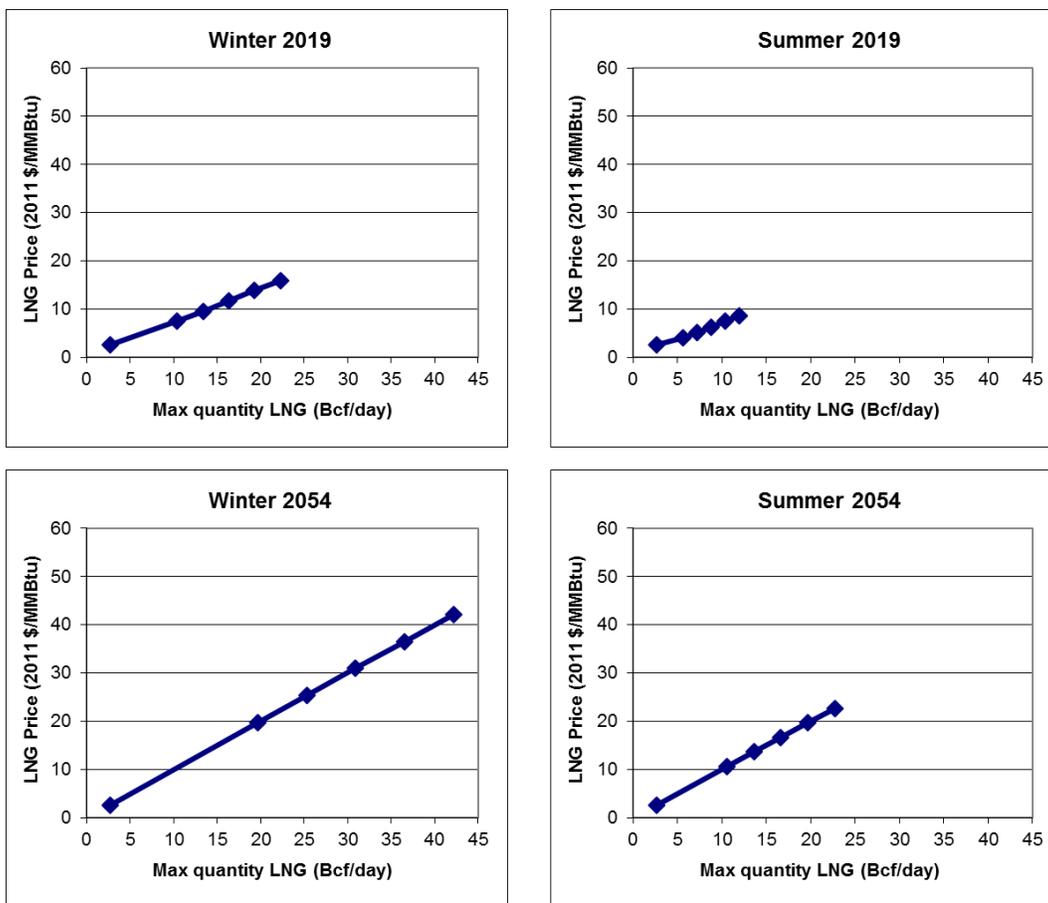


Figure 10-13 North American LNG Regasification Facilities Map



Figure 10-14 Examples of Firm Demand Curves by Electric Load Segment

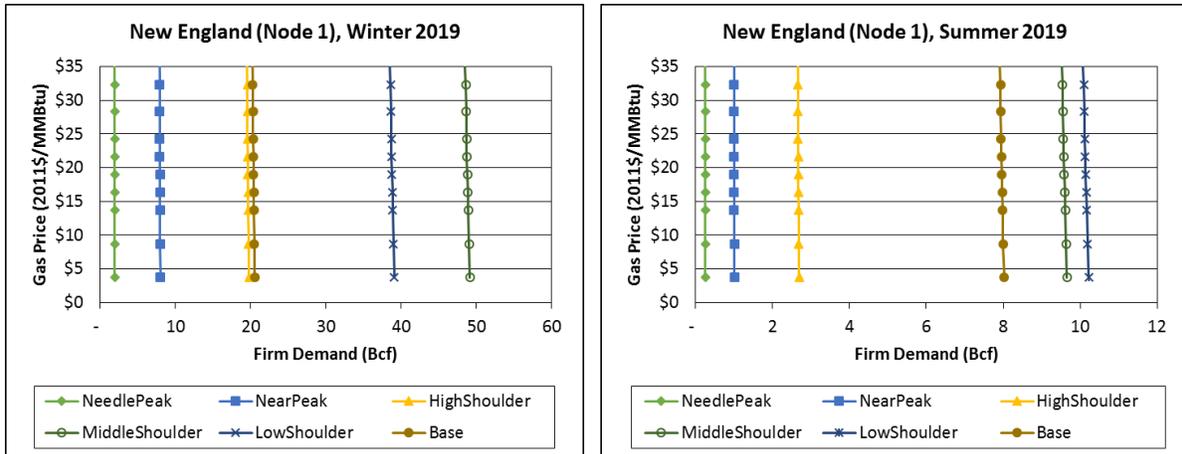


Figure 10-15 Examples of Interruptible Demand Curves by Electric Load Segment

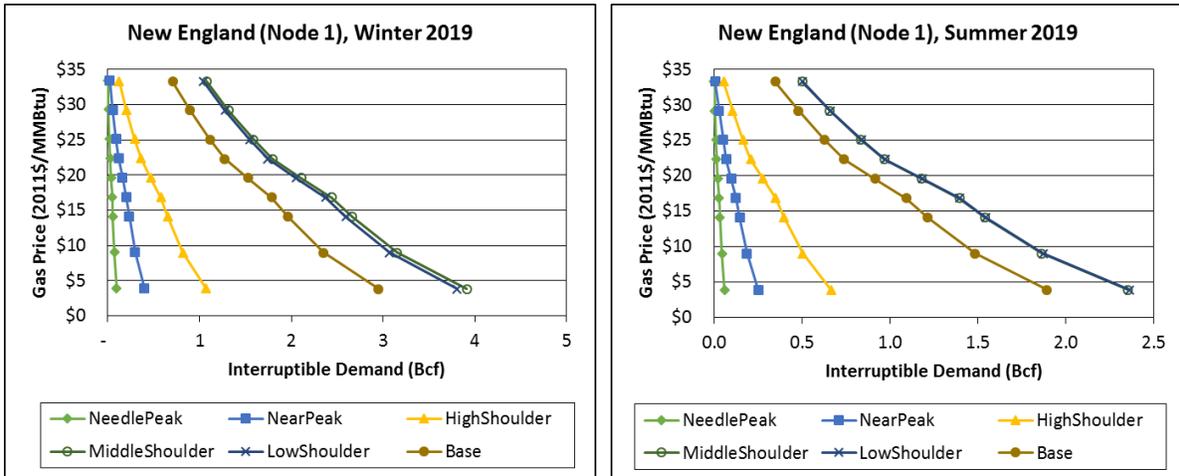


Figure 10-16 LNG Export Assumptions in EPA v.5.16 Ozone NAAQS NODA Base Case

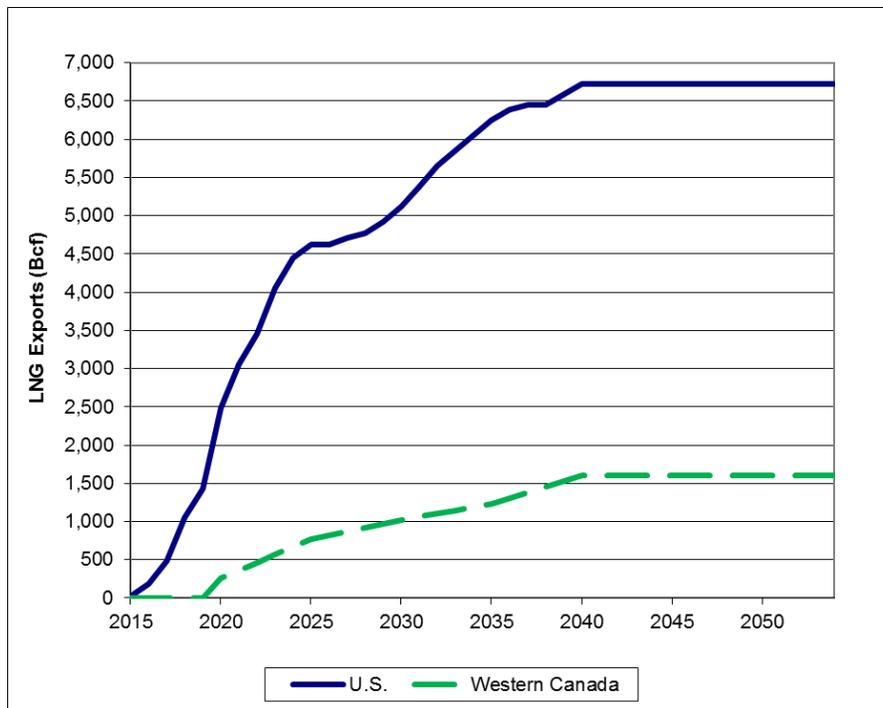


Figure 10-18 Example Pipeline Discount Curve

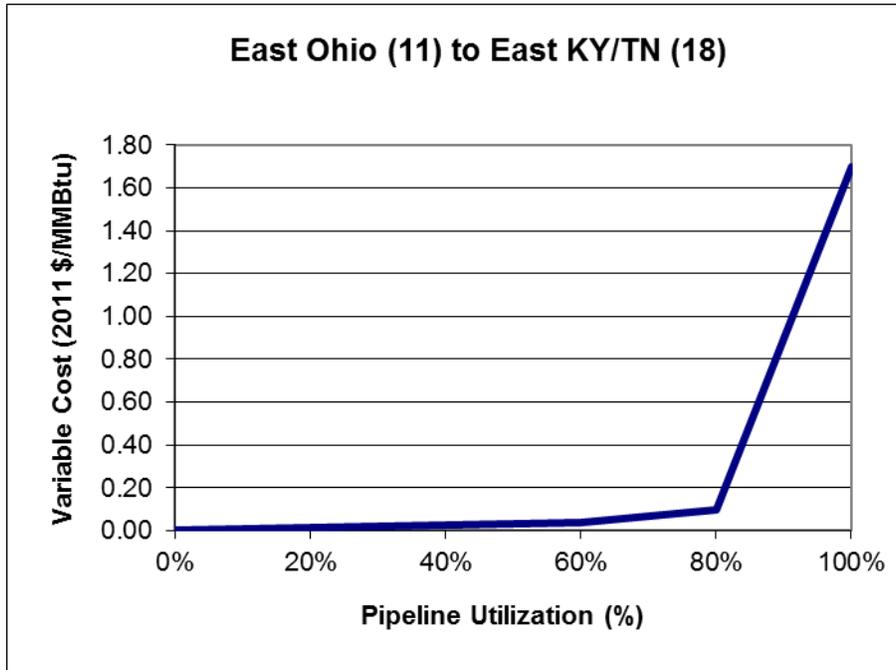
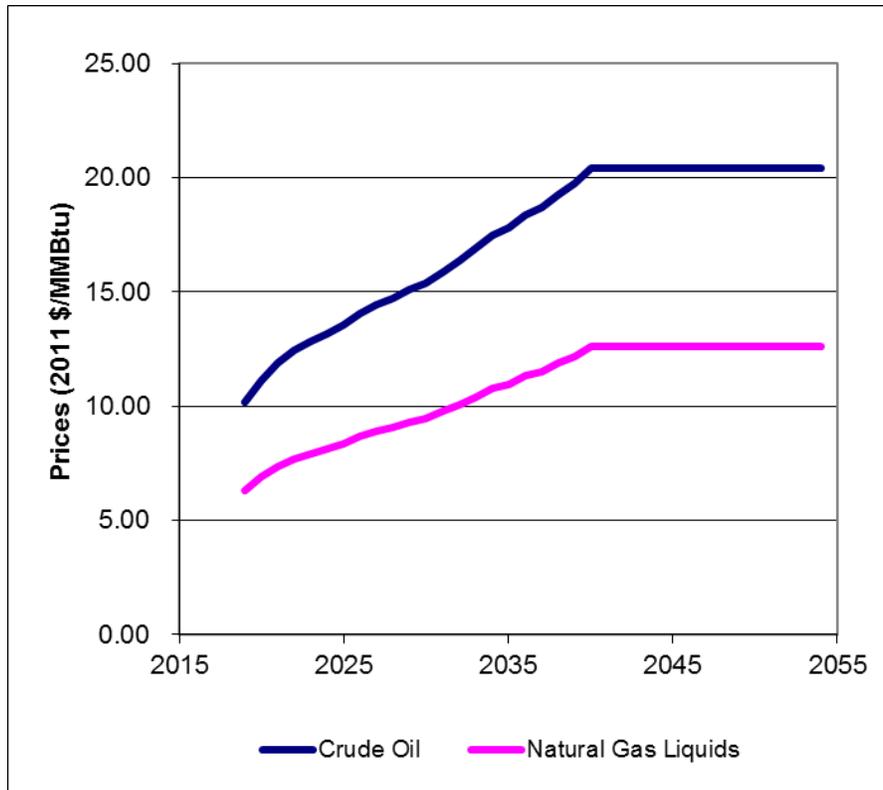


Figure 10-22 Crude Oil and NGL Prices



Chapter 11

Table 11-1 Fuel Oil Prices by NEMS Region in EPA Base Case v.5.16 for 2015 Ozone NAAQS Transport NODA

Residual Fuel Oil Prices (2011\$/MMBtu)								
AEO NEMS Region	2020	2023	2025	2028	2030	2035	2040	2045
ERCT	12.19	13.30	14.08	15.35	16.25	18.77	21.75	21.75
FRCC	10.56	11.67	12.45	13.72	14.62	17.14	20.12	20.12
MROE	0.60	1.71	2.49	3.77	4.66	7.19	10.16	10.16
MROW	6.28	7.39	8.17	9.44	10.34	12.86	15.84	15.84
NEWE	8.63	9.64	10.42	11.70	12.59	15.12	18.09	18.09
NYCW	11.98	13.09	13.86	15.14	16.04	18.56	21.53	21.53
NYLI	10.37	11.38	12.09	13.29	14.15	16.52	20.15	20.15
NYUP	9.05	10.16	10.94	12.21	13.11	15.63	18.61	18.61
RFCE	10.63	11.63	12.37	13.57	14.42	16.79	20.42	20.42
RFCM	9.32	10.43	11.21	12.49	13.38	15.91	18.88	18.88
RFCW	9.10	10.21	10.99	12.27	13.16	15.69	18.66	18.66
SRDA	9.52	10.63	11.40	12.68	13.58	16.10	19.07	19.07
SRGW	0.60	1.71	2.49	3.77	4.66	7.19	10.16	10.16
SRSE	9.36	10.47	11.25	12.52	13.42	15.94	18.92	18.92
SRCE	-0.69	0.42	1.20	2.47	3.37	5.90	8.87	8.87
SRVC	10.64	11.66	12.37	13.64	14.54	17.07	20.04	20.04
SPNO	6.28	7.39	8.17	9.44	10.34	12.86	15.84	15.84
SPSO	7.12	8.23	9.01	10.28	11.18	13.70	16.68	16.68
AZNM	12.19	13.30	14.08	15.35	16.25	18.77	21.75	21.75
CAMX	19.17	20.28	21.06	22.33	23.23	25.75	28.73	28.73
NWPP	11.09	12.10	12.82	14.01	14.87	17.24	20.87	20.87
RMPA	1.05	2.16	2.94	4.21	5.11	7.63	10.61	10.61

Distillate Fuel Oil Prices (2011\$/MMBtu)								
NEMS Region	2020	2023	2025	2028	2030	2035	2040	2045
ERCT	17.70	18.89	19.77	21.31	22.41	25.36	28.76	28.76
FRCC	18.00	19.19	20.06	21.54	22.65	25.58	28.95	28.95
MROE	18.16	19.35	20.23	21.77	22.87	25.82	29.22	29.22
MROW	18.03	19.23	20.10	21.65	22.75	25.70	29.09	29.09
NEWE	17.63	18.82	19.69	21.18	22.28	25.21	28.59	28.59
NYCW	17.67	18.85	19.73	21.21	22.31	25.25	28.62	28.62
NYLI	17.67	18.85	19.73	21.21	22.31	25.25	28.62	28.62
NYUP	17.67	18.85	19.73	21.21	22.31	25.25	28.62	28.62
RFCE	17.78	18.98	19.85	21.34	22.44	25.37	28.75	28.75
RFCM	18.16	19.35	20.23	21.77	22.87	25.82	29.22	29.22
RFCW	18.08	19.27	20.15	21.68	22.78	25.72	29.11	29.11
SRDA	17.70	18.89	19.77	21.31	22.41	25.36	28.76	28.76
SRGW	18.11	19.31	20.18	21.73	22.83	25.78	29.17	29.17
SRSE	18.12	19.30	20.18	21.70	22.80	25.74	29.13	29.13
SRCE	18.23	19.42	20.30	21.84	22.94	25.90	29.29	29.29
SRVC	18.00	19.19	20.06	21.54	22.65	25.58	28.95	28.95
SPNO	18.03	19.22	20.10	21.64	22.74	25.69	29.09	29.09
SPSO	17.72	18.92	19.80	21.34	22.44	25.39	28.79	28.79
AZNM	17.87	19.07	19.94	21.49	22.59	25.54	28.93	28.93
CAMX	17.88	19.07	20.06	21.60	22.71	25.66	29.05	29.05
NWPP	17.89	19.08	19.96	21.50	22.60	25.55	28.94	28.94
RMPA	17.87	19.07	19.94	21.49	22.59	25.54	28.93	28.93