



Form EIA-860M
MONTHLY UPDATE TO
ANNUAL ELECTRIC
GENERATOR REPORT

Year: 2012
Form Approval: OMB No. 1905-0129
Approval Expires: 10/31/2013
Burden: 0.3 Hours

PURPOSE

Form EIA-860M collects data on the status of:

- a) Proposed new generators scheduled to begin commercial operation within the subsequent 12 months;
- b) Existing generators scheduled to retire from service within the subsequent 12 months; and
- c) Existing generators that have proposed modifications that are scheduled for completion within one month.

The data collected on this form appear in the EIA publication *Electric Power Monthly*. They are also used to monitor the current status and trends of the electric power industry and to evaluate the future of the industry.

REQUIRED RESPONDENTS

Respondents to the Form EIA-860M who are required to complete this form are all Form EIA-860, ANNUAL ELECTRIC GENERATOR REPORT, respondents who have indicated in a previous filing to EIA that they have either one of the following: (1) a proposed new generator scheduled to start commercial operation within the subsequent 12 months, (2) an existing generator scheduled to retire from service within the subsequent 12 months, or (3) an existing generator with a proposed modification scheduled for completion within one month of the reporting period (month).

RESPONSE DUE DATE

Reporting on the EIA-860M must begin when either a new generator is within 12 months of entering commercial operation, an existing generator proposed for retirement is within 12 months of being retired from service, or a proposed modification to an existing generator is within one month of completion.

The status information provided on the EIA-860M should be the status of the generator as of the end of the data reporting period. The report is due on approximately the 15th day of the month following the data reporting period.

METHODS OF FILING RESPONSE

Submit your data electronically using EIA's secure e-filing system. This system uses security protocols to protect information against unauthorized access during transmission.

If you have not registered with e-file Single Sign-On (SSO) system, send an email requesting assistance to: EIA-860M@eia.gov.

If you have registered with SSO, log on at <https://signon.eia.gov/ssoserver/login>.

If you are having a technical problem with logging into or using the e-file system, contact the Help Center at: EIASurveyHelpCenter@eia.gov or 202-586-9595.

If you need an alternate means of filing your response, contact the Help Center.

Please retain a completed copy of this form for your files.

CONTACTS

If you are having a problem with logging into or using the e-file system, contact the Help Center at: EIASurveyHelpCenter@eia.gov or 202-586-9595.

If you have a question about the data requested on this form, email EIA-860M@eia.gov (preferred) or contact one of the survey managers listed below.

Vlad Dorjets, 202-586-3141

Suparna Ray, 202-586-5077

Tosha Richardson, 202-287-6597



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**ITEM-BY-ITEM
INSTRUCTIONS**

SCHEDULE 1. IDENTIFICATION

1. **Survey Contact:** Verify the contact's name, title, address, telephone number, fax number and email address.
2. **Supervisor of Survey Contact:** Verify the supervisor's name, title, address, telephone number, fax number and email address.
3. **Entity Details:** Verify the legal name of the entity, the entity identification number and the reporting month and year.

If any of the information described above is incorrect or missing, provide the correct information in SCHEDULE 4. COMMENTS.

SCHEDULE 2. UPDATES TO PROPOSED GENERATORS

Verify the plant identification number, plant name and plant state at the top of the schedule. If any of the information is incorrect or missing, provide the correct information in SCHEDULE 4. COMMENTS.

If the pre-printed data are correct and no changes need to be made, check the "Check if no change" box and proceed to SCHEDULE 3. UPDATES TO PROPOSED CHANGES TO EXISTING GENERATORS, if applicable. If any of the pre-printed data are incorrect or missing, provide the correct data in the "This Month's Updates" column and select the appropriate reason for change in line 9.

1. For line 1, verify the Status Code by using the table below.

IP	Planned new generator cancelled, indefinitely postponed, or no longer in resource plan.
OP	Operating (in commercial operation)
TS	Construction complete but generator not yet in commercial operation (including low power testing of nuclear units).
V	Under construction, more than 50 percent complete (based on construction time to date of operation)
U	Under construction, less than or equal to 50 percent complete (based on construction time to date of operation)
T	Regulatory approvals received, not under construction (site preparation may be underway).
L	Regulatory approvals pending, not under construction.
P	Planned for installation; regulatory approvals not initiated.
OT	Other (explain in SCHEDULE 4. COMMENTS).

2. For line 2, verify the Prime Mover by using the table below. If re-powering has been completed, update the prime mover type, as appropriate.

<u>Prime Mover Code</u>	<u>Description</u>
BA	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
ES	Energy Storage, Other (explain in SCHEDULE 4. COMMENTS)
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (includes jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part



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CT	Combined Cycle Combustion Turbine Part (type of coal or solid must be reported as energy source for integrated coal gasification)
CS	Combined Cycle Single Shaft (combustion turbine and steam turbine share a single generator)
CC	Combined Cycle Total Unit (use only for plants/generators that are in planning stage, for which specific generator details cannot be provided)
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other (explain in SCHEDULE 4. COMMENTS)
HY	Hydroelectric Turbine (includes turbines associated with delivery of water by pipeline)
PS	Hydraulic Turbine, Reversible (pumped storage)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
OT	Other (explain in SCHEDULE 4. COMMENTS)

3. For line 3, verify the Nameplate Capacity (MW). If the nameplate capacity is expressed in kilovolt amperes (kVA), convert to kilowatts by multiplying the power factor by the kVA, divide by 1,000 to express in megawatts to the nearest tenth.
4. For lines 4 and 5, verify the Net Summer Capacity (MW) and Net Winter Capacity (MW), respectively.
5. For line 6, verify the energy source that is expected to be used in the largest quantity (Btus) to power the generator (i.e. the Primary Energy Source). Select appropriate energy source codes from the table of energy source codes in these instructions. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat or reject heat.
6. For line 7, verify the energy source that is expected to be used in the second largest quantity (Btus) to power the generator (i.e. Secondary Energy Source). Select appropriate energy source codes from the table of energy source codes in these instructions. For generators driven by turbines using steam that is produced from waste heat or reject heat, report the original energy source used to produce the waste heat or reject heat.
7. For line 8, verify the Planned Current Effective Date that the generator is scheduled to start commercial operation, or enter the date the generator started commercial operation if reported status is "OP".
8. For line 9, enter Reason for Change in status or change in scheduled date. Check all of the reasons that apply; if "Other," explain in SCHEDULE 4, COMMENTS.

SCHEDULE 3. UPDATES TO PROPOSED CHANGES TO EXISTING GENERATORS

Verify the plant identification number, plant name and plant state at the top of the schedule. If any of the information is incorrect or missing, provide the correct information in SCHEDULE 4. COMMENTS.

If the pre-printed data are correct and no changes need to be made, check the "Check if no change" box. If any of the pre-printed data are incorrect or missing, provide the correct data in the "This Month's Updates" column and select the appropriate reason for change in line 25.

Existing Information

1. For line 1, verify the Existing Prime Mover Code. Use the Prime Mover codes from the table in



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the instructions to Schedule 2.

2. For line 2, verify the energy source that is used in the largest quantity (Btus) to power the generator (i.e. the Primary Energy Source). Use Energy Source codes from the table in these instructions.
3. For line 3, verify the energy source that is used in the second largest quantity (Btus) to power the generator (i.e. Secondary Energy Source). Use Energy Source codes from the table in these instructions.
4. For lines 4, 5 and 6, verify the Existing Nameplate Capacity (MW), Existing Net Summer Capacity (MW), and Existing Net Winter Capacity (MW), respectively.

Uprates

If no uprates are reported, skip to the next section.

5. For line 7, if the Uprate is still planned, choose "Yes." If the Uprate is canceled, choose "Uprate Canceled." If the Uprate is completed, choose "Uprate Completed."
6. For lines 8 and 9, verify the Planned Uprate Net Summer Capacity (MW) and Planned Uprate Net Winter Capacity (MW), respectively.
7. For line 10, verify the Planned Uprate Month/Year. If the Planned Uprate Month/Year has changed, enter changes under "This Month's Update" column. If the Planned Uprate was canceled on line 7, then the Planned Uprate Month/Year should be removed and left blank.

Derates

If no derates are reported, skip to the next section.

8. For line 11, if the Derate is still planned, choose "Yes." If the Derate is canceled, choose "Derate Canceled." If the Derate is completed, choose "Derate Completed."
9. For lines 12 and 13, verify the Planned Derate Net Summer Capacity (MW) and Planned Derate Net Winter Capacity (MW), respectively.
10. For line 14, verify the Planned Derate Month/Year. If the Planned Derate Month/Year has changed, enter changes under "This Month's Update" column. If the Planned Derate was canceled on line 11, then the Planned Derate Month/Year should be removed and left blank.

New Net Capacity

If no Uprates or Derates are reported, skip to the next section.

11. For line 15, verify the New Net Summer Capacity (line 5 + line 8 – line 12).
12. For line 16, verify the New Net Winter Capacity (line 6 + line 9 – line 13).

Repowering

13. For line 17, if the Repowering is still planned, choose "Yes." If the Repowering is canceled, choose "Repower Canceled." If the Repowering is completed, choose "Repower Completed."
14. For line 18, verify the New Prime Mover Code. For existing generators with a Repowering, enter the Prime Mover Code that is applicable once the Repowering is completed, if it will be different from the current Prime Mover Code.
15. For line 19, verify the New Energy Source. For existing generators with a Repowering, enter the New Energy Source that is applicable once the Repowering is completed, if it will be different from the current Energy Source.
16. For line 20, verify the Planned Repower Month/Year. If the Planned Repower Month/Year has changed, enter changes under "This Month's Update" column. If the Planned Repower was canceled on line 17, then the Planned Repower Month/Year should be removed and left blank.



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Retirement

17. For line 21, if the Retirement is still planned, choose "Yes." If the Retirement is canceled, choose "Retirement Canceled." If the Retirement is completed, choose "Retirement Completed."
18. For line 22, verify the Planned Retirement Month/Year. If the Planned Retirement Month/Year has changed, enter changes under "This Month's Update" column. If the Planned Retirement was canceled on line 21, then the Planned Retirement Month/Year should be removed and left blank.

Other Modifications

19. For line 23, if the Other Modification is still planned, choose "Yes." If the Other Modification is canceled, choose "Other Mod. Canceled." If the Other Modification is completed, choose "Other Mod. Completed."
20. For line 24, verify the Planned Other Modifications Month/Year. If the Planned Other Modifications Month/Year has changed, enter changes under "This Month's Update" column. If the Planned Other Modification was canceled on line 23, then the Planned Other Modification Month/Year should be removed and left blank.

Reason for Change

21. For line 25, enter Reason for Change in the data. Check all of the reasons that apply, if "Other," explain in SCHEDULE 4. COMMENTS

**ENERGY
SOURCE CODES**

Fuel Type	Energy Source Code	Unit Label	Higher Heating Value Range		Energy Source Description
			MMBtu Lower	MMBtu Upper	
Fossil Fuels					
Coal	ANT	Tons	22	28	Anthracite Coal
	BIT	Tons	20	29	Bituminous Coal
	LIG	Tons	10	14.5	Lignite Coal
	SUB	Tons	15	20	Subbituminous Coal
	WC	tons	6.5	16	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
	RC	tons	20	29	Refined Coal
Petroleum Products	DFO	barrels	5.5	6.2	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils.
	JF	barrels	5	6	Jet Fuel
	KER	barrels	5.6	6.1	Kerosene
	PC	tons	24	30	Petroleum Coke
	RFO	barrels	5.8	6.8	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	WO	barrels	3.0	5.8	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)



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Fuel Type	Energy Source Code	Unit Label	Higher Heating Value Range		Energy Source Description
			MMBtu Lower	MMBtu Upper	
Fossil Fuels (Continued)					
Natural Gas and Other Gases	BFG	Mcf	0.07	0.12	Blast Furnace Gas
	NG	Mcf	0.8	1.1	Natural Gas
	OG	Mcf	0.32	3.3	Other Gas (specify in SCHEDULE 7. COMMENTS)
	PG	Mcf	2.5	2.75	Gaseous Propane
	SG	Mcf	0.2	1.1	Synthetic Gas
	SGC	Mcf	0.2	0.3	Coal-Derived Synthetic Gas
Renewable Fuels					
Solid Renewable Fuels	AB	tons	7	18	Agricultural By-Products
	MSW	tons	9	12	Municipal Solid Waste
	OBS	tons	8	25	Other Biomass Solids (specify in SCHEDULE 7. COMMENTS)
	WDS	tons	7	18	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)
Fossil Fuels					
Liquid Renewable (Biomass) Fuels	OBL	barrels	3.5	4	Other Biomass Liquids (specify in SCHEDULE 4. COMMENTS)
	SLW	tons	10	16	Sludge Waste
	BLQ	tons	10	14	Black Liquor
	WDL	barrels	8	14	Wood Waste Liquids excluding Black Liquor (including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
Gaseous Renewable (Biomass) Fuels	LFG	Mcf	0.3	0.6	Landfill Gas
	OBG	Mcf	0.36	1.6	Other Biomass Gas (including digester gas, methane, and other biomass gases; specify in SCHEDULE 4. COMMENTS)
All Other Renewable Fuels	SUN	N/A	0	0	Solar
	WND	N/A	0	0	Wind
	GEO	N/A	0	0	Geothermal
	WAT	N/A	0	0	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology



Independent Statistics & Analysis
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			MMBtu Lower	MMBtu Upper	
All Other Fuels					
All Other Energy Sources	WAT	MWh	0	0	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
	NUC	N/A	0	0	Nuclear (including Uranium, Plutonium, and Thorium)
	PUR	N/A	0	0	Purchased Steam
	WH	N/A	0	0	Waste heat not directly attributed to a fuel source (WH should only be reported where the fuel source for the waste heat is undetermined, and for combined cycle steam turbines that do not have supplemental firing.)
	TDF	Tons	16	32	Tire-derived Fuels
	MWH	MWh	0	0	Electricity used for energy storage
	OTH	N/A	0	0	Specify in SCHEDULE 4. COMMENTS