

Form CEC-1304 Schedule 1 and 2–Power Plant Generation and Fuel Quarterly Reports

Purpose: This form provides electric generation and fuel use information related to power plant operations. This information is used by Energy Commission staff for various analyses including the commission’s *Integrated Energy Policy Report*.

Authority: California Code of Regulations, Title 20, Division 2, Chapter 3, Section 1304(a)(1)-(2)

Who must file: Each owner of a power plant located within California or within a control area with end users inside California.

When to file: For power plants with nameplate capacity of ten megawatts (10 MW) or more, this form is submitted on the 15th day of February, May, August, and November for the previous quarter. For power plants with nameplate capacity from one megawatt (1 MW) to less than ten megawatts (10 MW), this form is submitted annually on the 15th day of February for the previous calendar year.

How to file: Reports in paper or electronic file format may be submitted by email or U.S. mail. Each submittal must be accompanied with a declaration. A sample declaration statement is available with the form.

Where to file: California Energy Commission
1516 Ninth Street, MS-20
Sacramento, CA 95814
or
QFERGEN@energy.state.ca.us

CEC-1304 Schedule 1 Part A Instructions

1. **Plant Name.** Name of the power plant.
2. **CEC Plant ID.** The California Energy Commission will assign this code of identification when the power plant is first reported on Form CEC-1304 schedules. The respondent should use the commission assigned code in subsequent filings.
 - a) **EIA Plant ID.** Code of identification used by the Energy Information Administration. Also known as EIA Facility Code.
 - b) **Qualifying Facility ID.** Identification code used by the purchasing utility for PURPA qualifying facilities. Also known as QFID.
3. **Plant Location.** Location of the power plant with street address, city, county, state, and zip code. The map coordinates of latitude and longitude is optional.

4. **Plant Owner.** The full legal name of the plant owner and principal business address with street address, city, state, and zip code.
5. **Plant Operator.** The full legal name of the plant operator and principal business address with street address, city, state, and zip code.
6. **Nameplate Capacity.** The sum of the nameplate capacity in megawatts of all generators in the power plant.
7. **Number of Generators.** The number of generators in the power plant. If the prime movers for all generators are wind turbines, enter one (1) here and report the number of wind turbines in Part B of Form CEC 1304 Schedule 1.
8. **NAICS Code of Thermal Host if Cogeneration.** If the power plant is a cogeneration facility, provide the NAICS code of the entity that consumes the useful thermal output (steam or waste heat) of the plant. For information about NAICS codes, go to <http://www.census.gov/epcd/www/naics.html> or contact Ted Dang (tdang@energy.state.ca.us).
9. **NAICS Code of Direct Onsite User of Electricity.** If all or part of electricity produced by the power plant is consumed by an entity onsite, other than consumption by the auxiliary equipment of the power plant, provide the NAICS code of that entity. For information about NAICS codes, go to <http://www.census.gov/epcd/www/naics.html> or contact Ted Dang (tdang@energy.state.ca.us).
10. **Date of Sale.** The date of sale in year and month if the plant is sold during the reporting period.
11. **Purchaser of Plant.** The full legal name of the plant purchaser and principal business address with street address, city, state, and zip code. (If the plant is sold during the reporting period.)

CEC 1304 Schedule 1 Part B Instructions

1. **Generator (Unit) ID.** Unique identification code of the generator within the power plant as assigned by the plant owner/operator.
2. **Generator Nameplate Capacity.** The capacity, in megawatt, of the generator as shown on the nameplate or the full continuous rating under standard conditions.
3. **Date of Initial Operation.** Year and month of initial commercial operation.

4. **Operating Status.** Such as:
- Operating
 - Maintenance
 - Standby
 - Cold Standby
 - On Test
 - Out of Service
 - Indefinite Shutdown
 - Retired

5. **Date of Retirement.** Year and month of retirement.

6. **Prime Mover Type**

- ST Steam Turbine
- GT Combustion (Gas) Turbine
- IC Internal Combustion (diesel, piston) Engine
- HY Hydraulic Turbine
- PS Hydraulic Turbine – Reversible (Pumped Storage)
- PV Photovoltaic
- WT Wind Turbine
- FC Fuel Cell
- MT Micro Turbine
- OT Other (please specify)

7. & 8. **Energy Source Type (Primary and Secondary Fuel).** Enter the code for the Energy Source Type from the table below and the physical unit of measurement (Mcf, bbl, ton or other) for this energy source.

BIT	Bituminous Coal
LIG	Lignite
SUB	Sub-bituminous Coal
WC	Waste/Other Coal (Anthracite Coal, Coal Mixtures, Coke, Breeze, Tar, Coal)
DFO	Distillate Fuel Oil (all Diesel, and No. 1, No. 2, and No. 4 Fuel Oils)
JF	Jet Fuel
KER	Kerosene
RFO	Residual Fuel Oil (includes No 5, and No 6 Fuel Oil, and Bunker C Fuel Oil)
WO	Oil-Other, and Waste Oil (Butane (Liquid), Crude Oil, Liquid Byproducts, Propane (Liquid), Oil Waste, Re-Refined Motor Oil, Sludge Oil, Tar Oil)
PC	Petroleum Coke
NG	Natural Gas
BFG	Blast-Furnace Gas
OG	Other Gas (Coke-Oven, Coal Processes, Butane, Refinery, Other Processes)
PG	Propane
NUC	Nuclear (Uranium, Plutonium, Thorium)
AB	Agriculture Crop Byproducts/Straw/Energy Crops
BLQ	Black Liquor
GEO	Geothermal
LFG	Landfill Gas
MSW	Municipal Solid Waste
OBS	Other Biomass Solids (Animal Manure and Waste, Solid Byproducts, and Other Solid Biomass not specified)

OBL	Other Biomass Liquids (Fish Oil, Liquid Acetonitrile Waste, Medical Waste, Tall Oil, ethanol, Waste Alcohol, and Other Biomass Liquids not specified)
OBG	Other Biomass Gases (Digester Gas, Methane, and other Biomass Gases)
OTH	Other (Batteries, Chemicals, Hydrogen, Pitch, Sulfur, miscellaneous. technologies)
SLW	Sludge Waste
SUN	Solar (Photovoltaic, Thermal)
TDF	Tires
WAT	Water (Conventional, Pumped Storage)
WDS	Wood/Wood Waste Solids (Paper Pellets, Railroad Ties, Utility Poles, Wood Chips, and Other Wood Solids)
WDL	Wood Waste Liquids (Red Liquor, Sludge Wood, Spent Sulfite Liquor, and other Wood Related Liquids not specified)
WND	Wind

9. **Number of Wind Turbines.** Provide the number of wind turbines If the prime mover type is wind turbine.

10. **Part of Combined-cycle Unit?** Answer "Yes" if the generator is part of a combined-cycle unit.

CEC-1304 Schedule 2 Part A Instructions

For each generator (unit), provide the following information.

1. **Gross MWh.** Total output of the generator in megawatt hours.
2. **Net MWh.** Gross Generation less plant use by auxiliary equipment or pumping energy in case of pumped storage facility (in megawatt hours).

For the primary energy source, provide the following information.

3. **Fuel Use in Mcf, bbl, or ton.** Physical quantity of fuel consumption in thousand cubic feet, 42-gallon barrel, or ton. (One ton equals 2,000 pounds.)
4. **Fuel Use in MMBtu.** Fuel consumption in millions of British thermal units.
5. **Fuel Supplied by Tolling Agreement (Percent).** For power plants with nameplate capacity of 50 MW or more, if fuel is provided through a tolling agreement, indicate the portion of the fuel that is provided to the generator through the tolling agreement.
6. **Fuel Cost.** Report in U.S. dollars. For power plants with nameplate capacity of 50 MW or greater, provide the fuel cost except for the cost of fuel provided to the generator through a tolling agreement. The fuel cost data will be kept confidential by the California Energy Commission.

If a secondary energy source is used, provide the following information. If there are more than two energy sources, please add additional columns.

7. **Fuel Use in Mcf, bbl, or ton.** Physical quantity of fuel consumption in thousand cubic feet, 42-gallon barrel, or ton. (One ton equals 2,000 pounds.)

8. **Fuel Use in MMBtu.** Fuel consumption in millions of British thermal units.
9. **Fuel Supplied by Tolling Agreement (Percent).** For power plants with nameplate capacity of 50 MW or more, if fuel is provided through a tolling agreement, indicate the portion of the fuel that is provided to the generator through the tolling agreement.
10. **Fuel Cost.** Report in U.S. dollars. For power plants with nameplate capacity of 50 MW or greater, provide the fuel cost except for the cost of fuel provided to the generator through a tolling agreement. The fuel cost data will be kept confidential by the California Energy Commission.

CEC-1304 Schedule 2 Part A -- Addendum Cogeneration and Fuel Use by Generator Instructions

For each cogenerator, enter the following for the primary energy source.

1. **Fuel Attributable to Electric Generation** (physical units). The amount of primary fuel attributable to electric generation. The total of primary fuel attributable to electric generation and useful thermal output should total primary fuel use.
2. **Fuel Attributable to Cogeneration** (physical units). The amount of primary fuel attributable to useful thermal output. Due to the wide variety of useful thermal processes available to cogeneration plants, assume 100% conversion of fuel to useful thermal.
3. **Fuel Attributable to Electric Generation (MMBTU).** The portion of primary fuel attributable to electric generation. The total of primary fuel attributable to electric generation and useful thermal out should total primary fuel use.
4. **Fuel Attributable to Useful Thermal Output (MMBTU).** The amount of primary fuel attributable to useful thermal output. Due to the wide variety of useful thermal processes available to cogeneration plants, assume 100% conversion of fuel to useful thermal.

Enter the following for the secondary energy source.

5. **Fuel Attributable to Electric Generation** (physical units). The amount of secondary fuel attributable to electric generation. The total of secondary fuel attributable to electric generation and useful thermal out should total secondary fuel use.
6. **Fuel Attributable to Cogeneration** (physical units). The amount of secondary fuel attributable to useful thermal output. Due to the wide variety of useful thermal processes available to cogeneration plants, assume 100% conversion of fuel to useful thermal.

7. **Fuel Attributable to Electric Generation (MMBTU).** The portion of secondary fuel attributable to electric generation. The total of secondary fuel attributable to electric generation and useful thermal output should total secondary fuel use.
8. **Fuel Attributable to Cogeneration (MMBTU).** The amount of secondary fuel attributable to useful thermal output. Due to the wide variety of useful thermal processes available to cogeneration plants, assume 100% conversion of fuel to useful thermal.

CEC-1304 Schedule 2 Part B Instructions

For each power plant, report the following.

1. **Onsite Use (self-gen).** Consumption of electricity, in megawatt hours, onsite by the power plant owner, other than that by the auxiliary equipment of the power plant. This is commonly referred to as self generation.
2. **Sales for Resale.** Sales of electricity, in megawatt hours, not directly to end users.
3. **Sales to End Users.** Sales of electricity, in megawatt hours, directly to end users. If there are sales to more than two end users in a reporting period, provide data on additional forms.
4. **End User NAICS Code.** Provide a NAICS code for each end user. If there are more than two end users in a reporting period, provide data on additional forms. For more information about NAICS go to <http://www.census.gov/epcd/www/naics.html> or contact Ted Dang (tdang@energy.state.ca.us).

Form CEC-1304 Schedule 3—Power Plant Environmental Annual Report

Purpose: This form is optional, but the data submittals are required. The data submittals provide environmental information related to water and biological resources used by power plants in California. This information is used by Energy Commission staff for various analyses including the commission's *Integrated Energy Policy Report*.

Authority: California Code of Regulations, Title 20, Division 2, Chapter 3, Section 1304(a)(3).

Who must file: Each owner of an electric power plant located within California or within a control area with end users inside California.

When to file: Annual reports are due February 15 for the previous year. For example, the 2007 reports would be due February 15, 2008.

How to file: Reports in paper or electronic file format may be submitted by email or U.S. mail. Each submittal must be accompanied with a declaration. A sample declaration statement is available in Appendix D.

Where to file: California Energy Commission
1516 Ninth Street, MS-20
Sacramento, CA 95814
or
QFERGEN@energy.state.ca.us

CEC-1304 Schedule 3 Part A -- Environmental Information Related to Water Supply and Water/Wastewater Discharge

Below is a description of environmental information related to power plant operations that must be reported annually for each generator (unit). In lieu of providing copies of reports and filings, power plant owners can optionally choose to complete the form titled CEC-1304 Schedule 3 Part A.

1. **Water Supplies.** Owners of power plants with a generating capacity of 20 megawatts and greater shall submit copies of reports or filings¹ required by regulations, permit, or contract conditions that identify any of the following information for the previous calendar year:
 - a. a description of the type of cooling technology being used for each unit within a power plant;
 - b. the name of the water supplier(s) under contract to provide water to the power plant, if applicable, or the name of the water source as assigned by the U.S. Geological Survey on its 7.5-minute map series. Or, if well water is used, provide the well identification number and location as specified in the California Department of Water Resources, Water Facts, Issue No. 7, "Numbering Water Wells in California", June 2000.
 - c. the daily average and daily maximum water use volumes in gallons for all power plant purposes;
 - d. the monthly and annual amounts of water used for all power plant purposes in acre-feet; and
 - e. the metering technology used to measure and track water use at the power plant and the frequency at which meter readings are recorded (hourly, daily, weekly, monthly or annually).

¹ Rather than submitting copies of reports or filings, power plant owners can choose to complete the CEC-1304 Schedule 3 Part A form.

2. **Wastewater Discharges.** Owners of power plants with a generating capacity of 20 megawatts and greater shall submit copies of reports or filings¹ required by regulations, permit, or contract conditions that identify any of the following information for the previous calendar year:
- a. a description of the physical and chemical characteristics of the source water or the wastewater discharge, including any information prepared with the approved test methodology and detection limits specified by the U.S. Environmental Protection Agency in 40 CFR §136.3 for analyzing the constituents in wastewater.
 - b. the wastewater disposal system(s) used at the power plant for discharges related to power plant cooling and operations, the manufacturer(s), and the year of installation;
 - c. the measures taken, and the devices installed on the wastewater disposal system's outfall, to control pollution discharges to municipal systems, receiving waters or land;
 - d. the name of the utility or organization receiving the wastewater discharge, if applicable, or the name of the receiving water as assigned by the U.S. Geological Survey on its 7.5-minute map series;
 - e. the monthly and annual totals of wastewater that are created from power plant operations in acre-feet; and
 - f. the daily average and daily maximum waste water discharge volumes in gallons.

CEC-1304 Schedule 3 Part B -- Environmental Information Related to Biological Resources

Owners of power plants with a generating capacity of one megawatt or greater shall submit copies of reports or filings required by regulations, permit, or contract conditions that identify any of the following information for the previous calendar year:

- 1. documentation of the "take" of terrestrial, avian and aquatic wildlife subject to legal protection under California Fish & G. Code § 2050 et seq., 16 U.S.C.A. § 1371 et seq., 16 U.S.C.A. § 1531 et seq., and 16 U.S.C. A. § 668 et seq. that occurred as a result of operation of the power plant; and .
- 2. documentation and identification of the biomass (by weight) and species composition of fishes and marine mammals killed by impingement on the intake screens of each once-through cooling system.

¹ Rather than submitting copies of reports or filings, power plant owners can choose to complete the CEC-1304 Schedule 3 Part A form..

CEC-1304 Schedule 3 Part C – Notification of Violation

Owners of power plants with a generating capacity of one megawatt or more are required to provide copies to the Energy Commission of any written notifications provided by any state or federal regulatory agency stating that operation of their power plant has created a violation of an applicable statute, regulation, or permit condition related to environmental quality or public health during the previous calendar year, or that there is an ongoing investigation regarding a potential violation at the time that the data identified in CEC-1304 Schedule 3 Part A and Part B is required to be filed with the commission.