

**WAC 463-85-150 Calculating greenhouse gases emissions and determining compliance for baseload cogeneration facilities.** (1) To use this section for determining compliance with the greenhouse gases emissions performance standard, a facility must have certified to the Federal Energy Regulatory Commission (FERC) under the provisions of 18 C.F.R. 292 Subpart B as a qualifying cogeneration facility.

(2) The owner or operator of a baseload electric cogeneration facility or unit that must demonstrate compliance with the emissions performance standard in WAC 463-85-130(1) shall collect the following data:

(a) Fuels and fuel feed stocks.

(i) All fuels and fuel feed stocks used to provide energy input to the baseload electric cogeneration facility or unit.

(ii) Fuel and fuel feed stocks usage and heat content, which are to be monitored, and reported as directed by WAC 463-85-230.

(b) Electrical output in MWh as measured and recorded per WAC 463-85-230.

(c) All useful thermal energy and useful energy used for nonelectrical generation uses converted to units of megawatts energy equivalent ( $MW_{eq}$ ) using the conversion factor of 3.413 million British thermal units per megawatt hour (MMBtu/MWh).

(d) Regulated greenhouse gases emissions from the baseload electric cogeneration facility or unit as monitored, reported and calculated in WAC 463-85-230.

(e) Adjustments for use of renewable resources. If the owner or operator of a baseload electric cogeneration facility or unit adjusts its greenhouse gases emissions to account for the use of renewable resources, the greenhouse gases emissions are reduced based on the ratio of the annual heat input from all fuels and fuel feed stocks and the annual heat input from use of nonrenewable fuels and fuel feed stocks. Such adjustment will be based on records of fuel usage and representative heat contents approved by ecology.

(3) Bottoming-cycle cogeneration facilities. The formula to determine compliance of a bottoming-cycle cogeneration facility or unit with the emissions performance standard will be jointly developed by ecology and the facility. To the extent possible, the facility-specific formula must be based on the one for topping-cycle facilities identifying the amount of energy converted to electricity, thermal losses, and energy from the original fuel(s) used to provide useful thermal energy in the industrial process. The formula should be specific to the installed equipment, other thermal energy uses in the facility, and specific operating conditions of the facility.

(4) Topping-cycle cogeneration facilities. To demonstrate compliance with the emissions performance standard, a topping-cycle facility or unit must:

(a) Determine annual electricity produced in MWh.

(b) Determine the annual electrical energy equivalent of the useful thermal energy output in  $MWh_{eq}$ .

(c) Determine the annual regulated greenhouse gases emissions produced in pounds.

(5) By January 31 of each year, the owner or operator of each baseload electric cogeneration facility or unit subject to the monitoring and compliance demonstration requirements of this rule will:

(a) Calculate the pounds of regulated greenhouse gases emissions emitted per MWh of electricity produced during the prior calendar year

by dividing the regulated greenhouse gases emissions by the sum of the MWh and MWh<sub>eq</sub> produced in that year; and

(b) Submit that calculation and all supporting information to EF-SEC or ecology as appropriate.

[Statutory Authority: Chapters 80.70 and 80.80 RCW and RCW 80.50.040. WSR 08-14-064, § 463-85-150, filed 6/25/08, effective 7/26/08.]