

**PROPOSED CHANGES TO THE GREENHOUSE GAS REPORTING RULE FOR
ELECTRICITY MARKETS RULEMAKING**

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Chapter 173-441 WAC

REPORTING OF EMISSIONS OF GREENHOUSE GASES

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WAC

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WAC 173-441-010 Scope.

[NO CHANGES TO THIS SECTION ARE PROPOSED. NEXT TWO SECTIONS INCLUDED IN FULL FOR REFERENCE, BUT NO CHANGES ARE PROPOSED.]

WAC 173-441-020 Definitions. The definitions in this section apply throughout this chapter unless the context clearly requires otherwise.

(1) Definitions specific to this chapter:

(a) "40 C.F.R. Part 98" or "40 C.F.R. § 98" means the United States Environmental Protection Agency's Mandatory Greenhouse Gas Reporting regulation including any applicable subparts. All references are adopted by reference as if it was copied into this rule. References mentioned in this rule are adopted as they exist on February 9, 2022, or the adoption date in WAC 173-400-025(1), whichever is later.

(b) "Asset controlling supplier" or "ACS" means any entity that owns or operates interconnected electricity generating facilities or serves as an exclusive marketer for these facilities even though it does not own them, and has been

designated by the department and received a department-published emissions factor for the wholesale electricity procured from its system. Electricity from an asset controlling supplier is considered a specified source of electricity.

(c) "Biomass" means nonfossilized and biodegradable organic material originating from plants, animals, or microorganisms, including products, by-products, residues and waste from agriculture, forestry, and related industries as well as the nonfossilized and biodegradable organic fractions of industrial and municipal wastes, including gases and liquids recovered from the decomposition of nonfossilized and biodegradable organic material.

(d) "Carbon dioxide equivalent" or "CO₂e" means a metric measure used to compare the emissions from various greenhouse gases based upon their global warming potential.

(e) "Director" means the director of the department of ecology.

(f) "Ecology" means the Washington state department of ecology.

(g) "Electric power entity" includes any of the following that supply or transact electric power in Washington: (i) Electricity importers and exporters; (ii) retail providers, including multijurisdictional retail providers; and (iii) the asset controlling suppliers. See WAC 173-441-124 for more detail.

(h) "Facility" unless otherwise specified in WAC 173-441-122, 173-441-124, or any subpart of 40 C.F.R. Part 98 as adopted in WAC 173-441-120, means any physical property, plant, building, structure, source, or stationary equipment located on one or more contiguous or adjacent properties in actual physical contact or separated solely by a public roadway or other public right of way and under common ownership or common control, that emits or may emit any greenhouse gas. Operators of military installations may classify such installations as more than a single facility based on distinct and independent functional groupings within contiguous military properties.

(i) "Fuel products" means petroleum products, biomass-derived fuels, coal-based liquid fuels, natural gas, biogas, and liquid petroleum gas as established in 40 C.F.R. Part 98

Subparts LL through NN. Renewable or biogenic versions of fuel products listed in Tables MM-1 or NN-1 of 40 C.F.R. Part 98 are also considered fuel products. Assume complete combustion or oxidation of fuel products when calculating GHG emissions.

(j) "Fuel supplier" means any of the following suppliers of fuel products: (See WAC 173-441-122 for more detail.)

(i) A supplier of fossil fuel other than natural gas, including:

(A) A supplier of petroleum products;

(B) A supplier of liquid petroleum gas;

(C) A supplier of coal-based liquid fuels.

(ii) A supplier of biomass-derived fuels;

(iii) A supplier of natural gas, including:

(A) Operators of interstate and intrastate pipelines;

(B) Suppliers of liquefied or compressed natural gas;

(C) Natural gas liquid fractionators;

(D) Local distribution companies.

(k) "Greenhouse gas," "greenhouse gases," "GHG," and "GHGs" includes carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.

Beginning on January 1, 2012, "greenhouse gas" also includes any other gas or gases designated by ecology by rule in Table A-1 in WAC 173-441-040.

(l) "Operator" means any individual or organization who operates or supervises a facility, supplier, or electric power entity. The operator of an electric power entity may be the electric power entity itself.

(m) "Owner" means any individual or organization who has legal or equitable title to, has a leasehold interest in, or control of a facility, supplier, or electric power entity, except an individual or organization whose legal or equitable title to or leasehold interest in the facility, supplier, or electric power entity arises solely because the person is a limited partner in a partnership that has legal or equitable title to, has a leasehold interest in, or control of the facility, supplier, or electric power entity shall not be considered an "owner" of the facility, supplier, or electric power entity.

(n) "Person" includes the owner or operator of:

(i) A facility;

(ii) A supplier; or

(iii) An electric power entity.

(o) "Product data" means data related to a facility's production that is part of the annual GHG report.

(p) "Reporter" means any of the following subject to this chapter:

(i) A facility;

(ii) A supplier; or

(iii) An electric power entity.

(q) "Supplier" means any person who is a:

(i) Fuel supplier that produces, imports, or delivers, or any combination of producing, importing, or delivering, fuel products in Washington; and

(ii) Supplier of carbon dioxide that produces, imports, or delivers a quantity of carbon dioxide in Washington that, if released, would result in emissions in Washington.

(2) Definitions specific to the Climate Commitment Act program.

For those terms not listed in subsection (1) of this section, WAC 173-441-122(2), or 173-441-124(2), the definitions

from chapter 70A.65 RCW, as described in chapters 173-446 and 173-446A WAC apply in this chapter in order of precedence.

(3) **Definitions from 40 C.F.R. Part 98.** For those terms not listed in subsection (1) or (2) of this section, WAC 173-441-122(2), or 173-441-124(2), the definitions found in 40 C.F.R. § 98.6 or a subpart as adopted in this chapter, apply in this chapter as modified in WAC 173-441-120(2).

[Statutory Authority: RCW 70A.15.2200. WSR 22-05-050 (Order 21-07), § 173-441-020, filed 2/9/22, effective 3/12/22. Statutory Authority: Chapters 70.94, 70.235 RCW. WSR 16-19-047 (Order 15-10), § 173-441-020, filed 9/15/16, effective 10/16/16; WSR 15-04-051 (Order 13-13), § 173-441-020, filed 1/29/15, effective 3/1/15. Statutory Authority: 2010 c 146, and chapters 70.235 and 70.94 RCW. WSR 10-24-108 (Order 10-08), § 173-441-020, filed 12/1/10, effective 1/1/11.]

WAC 173-441-030 Applicability. The GHG reporting requirements and related monitoring, recordkeeping, and reporting requirements of this chapter apply to the owners and operators of any facility that meets the requirements of subsection (1) of this section; any supplier that meets the requirements of subsection (2) of this section; and any electric

power entity that meets the requirements of subsection (3) of this section. In determining whether reporting is required, the requirements of each subsection must be applied independently of the requirements of the other subsections. Research and development activities are not considered to be part of any source category defined in this chapter.

(1) **Facility reporting.** Reporting is mandatory for an owner or operator of any facility located in Washington state with total GHG emissions that exceeds the reporting threshold defined in (a) of this subsection. GHG emissions from all applicable source categories listed in WAC 173-441-120 at the facility must be included when determining whether emissions from the facility meet the reporting threshold.

(a) **Facility reporting threshold.** Any facility that emits 10,000 metric tons CO₂e or more per calendar year in total GHG emissions from all applicable source categories listed in WAC 173-441-120 exceeds the reporting threshold.

(b) **Calculating facility emissions for comparison to the threshold.** To calculate GHG emissions for comparison to the reporting threshold, the owner or operator must:

(i) Calculate the total annual emissions of each GHG in metric tons from all applicable source categories that are listed and defined in WAC 173-441-120. The GHG emissions must be calculated using the calculation methodologies specified in WAC 173-441-120 and available company records.

(ii) Include emissions of all GHGs that are listed in Table A-1 of WAC 173-441-040, including all GHG emissions from the combustion of biomass and all fugitive releases of GHG emissions from biomass, calculated as provided in the calculation methods referenced in Table 120-1.

(iii) Sum the emissions estimates for each GHG and calculate metric tons of CO₂e using Equation A-1 of this subsection.

$$CO_2e = \sum_{i=1}^n GHG_i \times GWP_i \quad (Eq. A-1)$$

Where:

- CO₂e = Carbon dioxide equivalent, metric tons/year.
- GHG_i = Mass emissions of each greenhouse gas listed in Table A-1 of WAC 173-441-040, metric tons/year.
- GWP_i = Global warming potential for each greenhouse gas from Table A-1 of WAC 173-441-040.

n = The number of greenhouse gases emitted.

(2) **Supplier reporting.** Beginning with the 2022 emissions year reported in 2023 reporting is mandatory for an owner or operator of any supplier with total GHG emissions in Washington that exceed the reporting threshold defined in (a) of this subsection. GHG emissions from all applicable source categories listed in WAC 173-441-122 from the supplier must be included when determining whether emissions from the supplier meet the reporting threshold.

(a) **Supplier reporting threshold.** Any supplier that produces, imports, or delivers 10,000 metric tons CO₂e or more per calendar year in total GHG emissions from all applicable source categories listed in WAC 173-441-122 exceeds the reporting threshold.

(b) **Calculating supplier emissions for comparison to the threshold.** To calculate GHG emissions for comparison to the reporting threshold, the owner or operator must:

(i) Calculate the total annual emissions of each GHG in metric tons from all applicable source categories that are listed and defined in WAC 173-441-122. The GHG emissions must be

calculated using the calculation methodologies specified in WAC 173-441-122 and available company records. Supplied CO₂ is considered emissions.

(ii) Include emissions of all GHGs that are listed in Table A-1 of WAC 173-441-040, including all GHG emissions from the combustion of biomass, calculated as provided in the calculation methods referenced in WAC 173-441-122.

(iii) Sum the emissions estimates for each GHG and calculate metric tons of CO₂e using Equation A-1 of this section.

(3) **Electric power entity reporting.** Beginning with the 2022 emissions year reported in 2023 reporting is mandatory for an owner or operator of any electric power entity with total GHG emissions that exceed the reporting threshold defined in (a) of this subsection. GHG emissions from all applicable source categories listed in WAC 173-441-124 from the electric power entity must be included when determining whether emissions from the electric power entity meet the reporting threshold.

(a) **Electric power entity reporting threshold.** Any electric power entity that imports or delivers 10,000 metric tons CO₂e or more per calendar year in total GHG emissions from all

applicable source categories listed in WAC 173-441-124 exceeds the reporting threshold.

(b) **Calculating electric power entity emissions for comparison to the threshold.** To calculate GHG emissions for comparison to the reporting threshold, the owner or operator must:

(i) Calculate the total annual emissions of each GHG in metric tons from all applicable source categories that are listed and defined in WAC 173-441-124. The GHG emissions must be calculated using the calculation methodologies specified in WAC 173-441-124 and available company records.

(ii) Include emissions of all GHGs that are listed in Table A-1 of WAC 173-441-040, including all GHG emissions from the combustion of biomass, calculated as provided in the calculation methods referenced in WAC 173-441-124.

(iii) Sum the emissions estimates for each GHG and calculate metric tons of CO₂e using Equation A-1 of this section.

(4) **Applicability over time.** A person that does not meet the applicability requirements of subsection (1), (2), or (3) of this section is not subject to this rule. Such a person would

become subject to the rule and the reporting requirements of this chapter if they exceed the applicability requirements of subsection (1), (2), or (3) of this section at a later time. Thus, persons should reevaluate the applicability to this chapter (including the revising of any relevant emissions calculations or other calculations) whenever there is any change that could cause a reporter to meet the applicability requirements of subsection (1), (2), or (3) of this section. Such changes include, but are not limited to, process modifications, increases in operating hours, increases in production, changes in fuel or raw material use, addition of equipment, facility expansion, and changes to this chapter.

(5) **Voluntary reporting.** A person may choose to voluntarily report to ecology GHG emissions that are not required to be reported under subsection (1), (2), or (3) of this section. Persons voluntarily reporting GHG emissions must use the methods established in WAC 173-441-120(3), 173-441-122 (1)(c), and 173-441-124 (1)(c) to calculate any voluntarily reported GHG emissions.

(6) Reporting requirements when emissions of greenhouse gases fall below reporting thresholds. Except as provided in this subsection, once a reporter is subject to the requirements of this chapter, the person must continue for each year thereafter to comply with all requirements of this chapter, including the requirement to submit annual GHG reports (annual GHG reports, GHG report, emissions report, annual report), even if the reporter does not meet the applicability requirements in subsection (1), (2), or (3) of this section in a future year. Reporters with a compliance obligation under chapter 70A.65 RCW, as described in chapter 173-446 WAC must continue to report for any year with a compliance obligation.

(a) If reported emissions are less than 10,000 metric tons CO₂e per year for five consecutive years, then the person may discontinue reporting as required by this chapter provided that the person submits a notification to ecology that announces the cessation of reporting and explains the reasons for the reduction in emissions. The notification must be submitted no later than the report submission due date, specified in WAC 173-441-050(2), of the year immediately following the fifth

consecutive year of emissions less than 10,000 tons CO₂e per year. The person must maintain the corresponding records required under WAC 173-441-050(6) for each of the five consecutive years and retain such records for 10 years following the year that reporting was discontinued. The person must resume reporting if annual emissions in any future calendar year increase above the thresholds in subsection (1) or (2) of this section.

(b) If reported emissions are less than five thousand metric tons CO₂e per year for three consecutive years, then the person may discontinue reporting as required by this chapter provided that the person submits a notification to ecology that announces the cessation of reporting and explains the reasons for the reduction in emissions. The notification must be submitted no later than the report submission due date, specified in WAC 173-441-050(2), of the year immediately following the third consecutive year of emissions less than 5,000 tons CO₂e per year. The person must maintain the corresponding records required under WAC 173-441-050(6) for each of the three consecutive years and retain such records for 10

years following the year that reporting was discontinued. The person must resume reporting if annual emissions in any future calendar year increase above the thresholds in subsection (1) or (2) of this section. This provision does not apply to electric power entities.

(c) If the operations of a reporter are changed such that all applicable GHG-emitting processes and operations listed in WAC 173-441-120, 173-441-122, and 173-441-124 cease to operate, then the person is exempt from reporting in the years following the year in which cessation of such operations occurs, provided that the person submits a notification to ecology that announces the cessation of reporting and certifies to the closure of all GHG-emitting processes and operations no later than the report submission due date, specified in WAC 173-441-050(2), of the year following such changes. This provision does not apply to seasonal or other temporary cessation of operations. This provision does not apply to facilities with municipal solid waste landfills, industrial waste landfills, or to underground coal mines. The person must resume reporting for any future

calendar year during which any of the GHG-emitting processes or operations resume operation.

[Statutory Authority: RCW 70A.15.2200. WSR 22-05-050 (Order 21-07), § 173-441-030, filed 2/9/22, effective 3/12/22. Statutory Authority: Chapters 70.235 and 70.94 RCW. WSR 15-04-051 (Order 13-13), § 173-441-030, filed 1/29/15, effective 3/1/15.

Statutory Authority: 2010 c 146, and chapters 70.235 and 70.94 RCW. WSR 10-24-108 (Order 10-08), § 173-441-030, filed 12/1/10, effective 1/1/11.]

WAC 173-441-040 Greenhouse gases.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-050 General monitoring, reporting, recordkeeping and verification requirements. Persons subject to the requirements of this chapter must submit GHG reports to ecology, as specified in this section. Every metric ton of CO₂e emitted by a reporter required to report under this chapter and covered under any applicable source category listed in WAC 173-441-120, 173-441-122, or 173-441-124 must be included in the report.

(1) **General.** Follow the procedures for emission calculation, monitoring, quality assurance, missing data, recordkeeping, and reporting that are specified in each relevant section of this chapter.

(2) **Schedule.** The annual GHG report must be submitted as follows:

(a) Report submission due date:

(i) A person required to report or voluntarily reporting GHG emissions under WAC 173-441-030 must submit the report required under this chapter to ecology no later than March 31st of each calendar year for GHG emissions in the previous calendar year. Electric power entities reporting under WAC 173-441-124 must submit a report by June 1st of each calendar year for GHG emissions in the previous calendar year.

(ii) Unless otherwise stated, if the final day of any time period falls on a weekend or a state holiday, the time period shall be extended to the next business day.

(b) Reporting requirements begin:

(i) For an existing reporter that began operation before January 1, 2012, report emissions for calendar year 2012 and each subsequent calendar year.

(ii) For a new reporter that begins operation on or after January 1, 2012, and becomes subject to the rule in the year that it becomes operational, report emissions beginning with the first operating month and ending on December 31st of that year. Each subsequent annual report must cover emissions for the calendar year, beginning on January 1st and ending on December 31st.

(iii) For any reporter that becomes subject to this rule because of a physical or operational change that is made after January 1, 2012, report emissions for the first calendar year in which the change occurs.

(A) Reporters begin reporting with the first month of the change and ending on December 31st of that year. For a reporter that becomes subject to this rule solely because of an increase in hours of operation or level of production, the first month of the change is the month in which the increased hours of operation or level of production, if maintained for the

remainder of the year, would cause the reporter to exceed the applicable threshold.

(B) Suppliers and electric power entities begin reporting January 1st and ending on December 31st the year of the change.

(C) For all reporters, each subsequent annual report must cover emissions for the calendar year, beginning on January 1st and ending on December 31st.

(3) **Content of the annual report.** [NO CHANGES ARE PROPOSED TO THIS SECTION PAST THIS POINT]

WAC 173-441-060 Authorization and responsibilities of the designated representative

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-070 Report submittal.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-080 Standardized methods and conversion factors incorporated by reference. ([NO CHANGES TO THIS SECTION ARE PROPOSED])

WAC 173-441-085 Third-party verification

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-086 Assigned emissions level.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-090 Compliance and enforcement.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-100 Addresses.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-110 Fees. (1) Fee determination.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-120 Calculation methods for facilities. [NO

CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-122 Calculation methods for suppliers. [NO

CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-124 Calculation methods for electric power entities. This section establishes the scope of reportable energy and GHG emissions under this chapter and GHG emissions calculation methods for electric power entities. Owners and operators of electric power entities must follow the requirements of this section to determine if they are required to report under WAC 173-441-030(3). Owners and operators of electric power entities that are subject to this chapter must follow the requirements of this section when calculating emissions. If a conflict exists between a provision in WAC 173-441-010 through 173-441-110 and 173-441-140 through 173-441-170 and any applicable provision of this section, the requirements of those sections must take precedence.

(1) **General requirements.** An owner or operator of an electric power entity subject to the requirements of this chapter must report GHG emissions, including GHG emissions from

biomass, from all applicable categories listed in (a) of this subsection using the methods and procedures in this section.

(a) Electric power entity categories:

(i) Electricity importers and exporters, as defined in this section;

(ii) Retail providers, including multijurisdictional retail providers, as defined in this section;

(iii) Asset controlling suppliers;

(iv) Electric generating facilities in Washington state must report using the methods specified in WAC 173-441-120.

(b) The calculation methods for voluntary reporting in WAC 173-441-120(3) apply, except calculation methods in WAC 173-441-120 (3) (b) take precedence over the methods from WAC 173-441-120 (3) (a).

(c) Alternative calculation methods approved by petition.

An owner or operator may petition ecology to use calculation methods other than those specified in this section to calculate its electric power entities GHG emissions. Such alternative calculation methods must be approved by ecology prior to reporting and must meet the requirements of WAC 173-441-140.

(2) **Definitions specific to electric power entities.** The definitions in this subsection apply throughout this section unless the context clearly requires otherwise.

(a) "Centralized electricity market" means an electricity market organized and operated by a market operator and approved by the Federal Energy Regulatory Commission to provide wholesale electricity to market participants through a system of bidding and generation resource offers that are used to determine the dispatch of electricity from market participants. Examples of existing and proposed centralized electricity markets include the energy imbalance market and extended day ahead market operated by the California ISO, and the Markets+ market operated by the Southwest Power Pool.

(b) "Deemed Market Importer" means a market participant that successfully offers electricity into a centralized electricity market and is assigned, designated, deemed, or attributed to be serving Washington electric load by the methodologies, processes, or decision algorithms put in place by the market operator of that centralized electricity market.

(c) "Direct delivery of electricity" means electricity that meets any of the following criteria: The facility has a first point of interconnection at a Washington scheduling point or within a balancing authority area located entirely in Washington; The electricity is scheduled for delivery from the specified source to a Washington scheduling point or a balancing authority area located entirely in Washington via a continuous physical transmission path from interconnection of the facility in the balancing authority in which the facility is located to the Washington scheduling point or balancing authority area located entirely in Washington; or there is an agreement to dynamically transfer electricity from the facility to a Washington scheduling point or balancing authority area located entirely in Washington or the facility has a first point of interconnection within a centralized electricity market and electricity from that facility is attributed to Washington by the centralized electricity market.

(d) "Electricity exporter" means electric power entities that deliver exported electricity. The entity that exports electricity is identified on the e-tag as the purchasing-selling

entity (PSE) on the last segment of the tag's physical path, with the point of receipt located inside Washington state and the point of delivery located outside Washington state. For electricity that is exported from a designated scheduling point in the balancing authority area of a federal power marketing administration, the exporter is the purchasing-selling entity at the first point of the physical path of the e-tag that is not the generation source.

(e) "Electricity generating facility" means a facility that generates electricity and includes one or more generating units at the same location.

(f) "Electricity importer" means:

(i) For electricity that is scheduled with an e-tag to a final point of delivery into a balancing authority area located entirely within Washington state, the electricity importer is identified on the e-tag as the purchasing-selling entity on the last segment of the tag's physical path with the point of receipt located outside Washington state and the point of delivery located inside Washington state;

(ii) For facilities physically located outside Washington state with the first point of interconnection to a balancing authority area located entirely within Washington state when the electricity is not scheduled on an e-tag, the electricity importer is the facility operator or owner;

(iii) For imported electricity assigned, designated, deemed, or attributed to Washington through a centralized electricity market, the electricity importer is the deemed market importer;

(iv) For electricity from facilities allocated to serve retail electricity customers of a multijurisdictional electric company, the electricity importer is the multijurisdictional electric company;

(v) If the importer identified under (c)(i) of this subsection is a federal power marketing administration over which Washington state does not have jurisdiction, and the federal power marketing administration has not voluntarily elected to comply with this chapter, then the electricity importer is the next purchasing-selling entity in the physical path on the e-tag, or if no additional purchasing-selling entity

over which Washington state has jurisdiction, then the electricity importer is the electric utility that operates the Washington state transmission or distribution system, or the generation balancing authority;

(vi) For electricity that is imported into the state by a federal power marketing administration and sold to a public body or cooperative customer or direct service industrial customer located in Washington state pursuant to section 5 (b) or (d) of the Pacific Northwest Electric Power Planning and Conservation Act of 1980, P.L. 96-501, the electricity importer is the federal marketing administration;

(vii) If the importer identified under (c)(vi) of this subsection has not voluntarily elected to comply with this chapter, then the electricity importer is the public body or cooperative customer or direct service industrial customer;

(viii) For electricity that is imported into the state to a designated scheduling point inside the balancing authority area of a federal power marketing administration, the importer is the purchasing-selling entity on the e-tag at the last point on the physical path that is not the sink;

(ix) If the importer identified under (c)(vii) of this subsection is a federal power marketing administration that has not elected to voluntarily comply with this chapter, then the importer is the retail provider with which the scheduling point is associated; or

(x) For electricity from facilities allocated to a consumer-owned utility inside Washington state from a multijurisdictional consumer-owned utility, the electricity importer is the consumer-owned utility inside Washington state.

(g) "Electricity transaction" means the purchase, sale, import, export or exchange of electric power. An electricity transaction also includes the transfer of electricity from a centralized electricity market, or the assignment, designation, deeming, or other attribution of such a transfer of electricity from a centralized electricity market.

(h) "Energy imbalance market" or "EIM" means the western energy imbalance market operated by the California independent system operator.

(i) "E-tag" means an energy tag representing transactions on the North American bulk electricity market scheduled to flow

between or across balancing authority areas and to and from locations listed in an affiliated registry, as represented in a manner and form created by the North American Electric Reliability Corporation and as maintained by the North American Energy Standards Board or a successor organization.

(j) "Exported electricity" means electricity generated inside Washington state and delivered to serve load located outside Washington state. This includes electricity delivered from a first point of receipt inside Washington state, to the first point of delivery outside Washington state, with a final point of delivery outside Washington state. Exported electricity delivered across balancing authority areas may be documented on e-tags with the first point of receipt located inside Washington state and the final point of delivery located outside Washington state. Exported electricity does not include electricity generated inside Washington state then transmitted outside of Washington state, but with a final point of delivery inside Washington state. Exported electricity does not include electricity generated inside Washington state that is allocated to serve Washington state retail customers of a

multijurisdictional retail provider, consistent with a cost allocation methodology approved by the Washington state utilities and transportation commission and the utility regulatory commission of at least one additional state in which the multijurisdictional retail provider provides retail electric service.

(k) "Extended Day Ahead Market" means the extended day ahead market operated by the California independent system operator.

(l) "Final point of delivery" means the sink specified on the e-tag, where defined points have been established through the affiliated registry. When e-tags are not used to document electricity deliveries, as may be the case within a balancing authority, the final point of delivery is the location of the load. Exported electricity is disaggregated by the final point of delivery.

(m) "First point of delivery in Washington" means the first defined point on the transmission system located inside Washington state at which imported electricity may be measured,

consistent with defined points that have been established through the affiliated registry.

(n) "First point of receipt" means the generation source specified on the e-tag, where defined points have been established through the affiliated registry. When e-tags are not used to document electricity deliveries, as may be the case within a balancing authority, the first point of receipt is the location of the individual generating facility or unit, or group of generating facilities or units.

(o) "Generation providing entity" or "GPE" means a facility or generating unit operator, full or partial owner, party to a contract for a fixed percentage of net generation from the facility or generating unit, party to a tolling agreement with the owner, or exclusive marketer for the facility or generating unit recognized by ecology.

(p) "Grid" or "electric power grid" means a system of synchronized power providers and consumers connected by transmission and distribution lines and operated by one or more control centers.

(q) "Imported electricity" means electricity generated outside Washington state with a final point of delivery within the state.

(r) "Imported electricity" includes electricity from or attributed to Washington by a centralized electricity market but does not include electricity imported into Washington by a market operator to obtain or provide emergency assistance under applicable emergency preparedness and operations reliability standards of the North American Electric Reliability Corporation or Western Electricity Coordinating Council.

(ii) "Imported electricity" includes imports from linked jurisdictions, but such imports shall be construed as having no emissions.

(iii) Electricity from a system that is marketed by a federal power marketing administration shall be construed as "imported electricity," not electricity generated in Washington state.

(iv) "Imported electricity" does not include electricity imports of unspecified electricity that are netted by exports of

unspecified electricity to any jurisdiction not covered by a linked program by the same entity within the same hour.

(v) For a multijurisdictional electric company, "imported electricity" means electricity, other than from in-state facilities, that contributes to a common system power pool. Where a multijurisdictional electric company has a cost allocation methodology approved by the Washington state utilities and transportation commission, the allocation of specific facilities to Washington state's retail load will be in accordance with that methodology.

(vi) For a multijurisdictional consumer-owned utility, "imported electricity" includes electricity from facilities that contribute to a common system power pool that are allocated to a consumer-owned utility inside Washington state pursuant to a methodology approved by the governing board of the consumer-owned utility.

(s) "Last point of delivery in Washington" means the last defined point on the transmission system located inside Washington state at which exported electricity may be measured, consistent with defined points that have been established

through the North American Energy Standards Board Electric Industry Registry.

(t) "Marketer" means a purchasing-selling entity that delivers electricity and is not a retail provider. (u) "Market Operator" means the legal entity that operates and maintains a centralized electricity market.

(v) "Market Participant" means an electric power entity that has an agreement with a centralized electricity market operator and participates in that centralized electricity market in accordance with the rules and procedures of that market, as well as with an approved tariff that governs the operations of the centralized electricity market.

(w) "Markets plus" or "Markets+" means the Markets+ centralized electricity day ahead market operated by the Southwest Power Pool.

(x) "Multijurisdictional consumer-owned utility" means an electric generation and transmission cooperative owned by a collection of consumer-owned utilities in multiple states or a consumer-owned utility that provides electricity to member

owners in Washington state and in one or more other states in a contiguous service territory or from a common power system.

(y) "Multijurisdictional electric company" means an investor-owned utility that provides electricity to customers in Washington state and in one or more other states in a contiguous service territory or from a common power system.

(z) "Multijurisdictional retail provider" means a:

(i) Multijurisdictional electric company; or

(ii) Multijurisdictional consumer-owned utility.

(aa) "Point of delivery" means a point on the electricity transmission or distribution system where a deliverer makes electricity available to a receiver, or available to serve load. This point may be an interconnection with another system or a substation where the transmission provider's transmission and distribution systems are connected to another system, or a distribution substation where electricity is imported into the state over a multijurisdictional retail provider's distribution system.

(bb) "Point of receipt" or "POR" means the point on an electricity transmission or distribution system where an

electricity receiver receives electricity from a deliverer. This point can be an interconnection with another system or a substation where the transmission provider's transmission and distribution systems are connected to another system.

(cc) "Power" means electricity, except where the context makes clear that another meaning is intended.

(dd) "Power contract" or "written power contract," as used for the purposes of documenting specified versus unspecified sources of imported and exported electricity, means a written document, including associated verbal or electronic records if included as part of the written power contract, arranging for the sale or procurement of electricity. Power contracts may be, but are not limited to, power purchase agreements, enabling agreements, electricity transactions, and tariff provisions, without regard to duration, or written agreements to import or export on behalf of another entity, as long as that other entity also reports to ecology the same imported or exported electricity. A power contract for a specified source is a contract that is contingent upon delivery of power from a particular facility, unit, or asset-controlling supplier's

system that is designated at the time the transaction is executed.

(ee) "Purchasing-selling entity" or "PSE" means the entity that is identified on an e-tag for each physical path segment.

(ff) "Retail end use customer" or "retail end user" means a residential, commercial, agricultural, or industrial electric customer who buys electricity to be consumed as a final product and not for resale.

(gg) "Retail provider" means any of the following:

(i) An electric utility as defined in RCW 19.405.020(14);

(ii) Multijurisdictional retail providers;

(iii) Multijurisdictional consumer-owned utilities.

(hh) "Retail sales" means electricity sold to retail end users.

(ii) "Specified source of electricity" or "specified source" means a facility, unit, or asset controlling supplier that is permitted to be claimed as the source of electricity delivered. The reporting entity must have either full or partial ownership in the facility or a written power contract to procure electricity generated by that facility or unit or from an asset

controlling supplier at the time of entry into the transaction to procure electricity. For electricity from a resource dispatched by a centralized electricity market, the reporting entity must indicate in the offer of the electricity to the market that the electricity is available to serve load in Washington. Electricity reported as specified source must be contracted to a Washington retail provider or must be surplus electricity, as determined by a methodology approved by Ecology.

(jj) "Sink" or "sink to load" or "load sink" means the sink identified on the physical path of e-tags, where defined points have been established through the affiliated registry. Exported electricity is disaggregated by the sink on the e-tag, also referred to as the final point of delivery on the e-tag.

(kk) "Source of generation" or "generation source" means the generation source identified on the physical path of e-tags, where defined points have been established through the affiliated registry. Imported electricity and wheels are disaggregated by the source on the e-tag, also referred to as the first point of receipt.

(ll) "Surplus electricity" means an amount of electricity generated by a resource in excess of the resource's existing obligations to provide electricity to purchasing entities.

(mm) "Tolling agreement" means an agreement whereby a party rents a power plant from the owner. The rent is generally in the form of a fixed monthly payment plus a charge for every megawatt generated, generally referred to as a variable payment.

(nn) "Unspecified source of electricity" or "unspecified source" means a source of electricity that is not a specified source at the time of entry into the transaction to sell or procure the electricity.

(3) **Data requirements and calculation methods.** The electric power entity who is required to report under WAC 173-441-030(3) of this chapter must comply with the following requirements.

(a) General requirements and content for GHG emissions data reports for electricity importers and exporters.

(i) Greenhouse gas emissions. The electric power entity must report GHG emissions separately for each category of delivered electricity required, in metric tons of CO₂ equivalent

(MT of CO₂e), with biogenic CO₂ reported separately, according to the calculation methods in this section.

(ii) Delivered electricity. The electric power entity must report imported and exported electricity in MWh disaggregated by first point of receipt (POR) or final point of delivery, as applicable, and must also separately report imported and exported electricity from unspecified sources, from centralized electricity markets, and from each specified source. First points of receipt and final points of delivery (POD) must be reported using the standardized code used in e-tags, as well as the full name of the POR/POD.

(iii) Imported electricity from unspecified sources. When reporting imported electricity delivered from unspecified sources, the electric power entity must report for each first point of receipt the following information:

(A) Whether the first point of receipt is located in a linked jurisdiction published on the ecology website;

(B) The amount of electricity from unspecified sources as measured at the first point of delivery in Washington state;

(C) The amount of electricity imports of unspecified electricity that are netted by exports of unspecified electricity to any jurisdiction not covered by a linked program by the same entity within the same hour.

(D) The net amount of imported unspecified electricity after taking into account the requirements in (a)(iii)(C) of this subsection.

(E) GHG emissions, including those associated with transmission losses, as required in this section.

(iv) Delivered electricity from specified facilities or units. The electric power entity must report all direct delivery of electricity as from a specified source for facilities or units in which they are a generation providing entity (GPE) or have a written power contract to procure electricity. An electric power entity must report imported electricity as from a specified source when the electricity power entity is a GPE of that facility. When reporting imported electricity from specified facilities or units, the electric power entity must disaggregate electricity deliveries and associated GHG emissions by facility or unit and by first point of receipt, as

applicable. The reporting entity must also report total GHG emissions and MWh from specified sources and the sum of emissions from specified sources explicitly listed as not covered in chapter 70A.65 RCW, as described in chapter 173-446 WAC. Seller Warranty: The sale or resale of specified source electricity is permitted among entities on the e-tag market path insofar as each sale or resale is for specified source electricity in which sellers have purchased and sold specified source electricity, such that each seller warrants the sale of specified source electricity from the source through the market path. Claims of specified sources of imported electricity, must include the following information:

(A) Measured at busbar. The amount of imported electricity from specified facilities or units as measured at the busbar; and

(B) Not measured at busbar. If the amount of imported electricity deliveries from specified facilities or units as measured at the busbar is not provided, report the amount of imported electricity as measured at the first point of delivery in Washington state, including estimated transmission losses as

required in this section and the reason why measurement at the busbar is not known.

(v) Imported electricity from a centralized electricity market. The reporting entity must separately report electricity transacted, assigned, deemed, or delivered through or on behalf of centralized electricity markets, by originating centralized electricity market, in a manner designated by Ecology.

(A) Each electric power entity serving as a deemed market importer must calculate, report, and cause to be verified on an annual basis the greenhouse gas emissions associated with the electricity in which the electric power entity has been designated, deemed, attributed, or otherwise assigned as the deemed market importer.

(B) An electric power entity is a deemed market importer if a market operator designates, deems, attributes, or otherwise assigns to that electric power entity a volume of electricity that represents a transfer of electricity to Washington on behalf of the market operator and in accordance with the protocols, procedures, and methodologies put in place by the relevant centralized electricity market.

(C) Electricity volumes for which deemed market importers have been assigned are considered to be derived from a specified source if the deemed market importer is also a generation providing entity or if the deemed market importer is acting as a representative agent for a generation providing entity.

(D) For the energy imbalance market only, and for emissions reporting years 2023 through 2026 only, the retail provider located or operating in Washington that receives a delivery of electricity facilitated through the energy imbalance market is the electricity importer for that electricity for the purposes of this section. For these years only, any conflicting assignment of the electricity importer as the deemed market importer by the EIM market operator will instead default to the retail provider as established in this subsection.

(vi) Imported electricity supplied by asset-controlling suppliers. The reporting entity must separately report imported electricity supplied by asset-controlling suppliers recognized by ecology. The reporting entity must:

(A) Report the asset-controlling supplier standardized purchasing-selling entity (PSE) acronym or code, full name, and the ecology identification number;

(B) Report asset-controlling supplier power that was not acquired as specified power, as unspecified power;

(C) Report delivered electricity from asset-controlling suppliers as measured at the first point of delivery in Washington state or by a centralized electricity market; and

(D) Report GHG emissions calculated pursuant to this section, including transmission losses.

(E) To claim power from an asset-controlling supplier, the asset-controlling supplier must be identified in one of the following means:

(I) On the physical path of the e-tag as the PSE at the first point of receipt, or in the case of asset-controlling suppliers that are exclusive marketers, as the PSE immediately following the associated generation owner; or

(II) If there is no e-tag associated with the imported electricity, on a long-term contract that identifies the ACS as the relevant provider of that electricity.

(vii) Exported electricity. The electric power entity must report exported electricity in MWh and associated GHG emissions in MT of CO₂e for unspecified sources disaggregated by each final point of delivery outside Washington state, and for each specified source disaggregated by each final point of delivery outside Washington state. For electricity dispatched by a centralized electricity market, the electric power entity must report exported electricity in MWh and associated GHG emissions in MT of CO₂e for unspecified sources and for each specified source disaggregated by recipient. The electric power entity must also report the following information:

(A) Exported electricity as measured at the last point of delivery located in Washington state, if known. If unknown, report as measured at the final point of delivery outside Washington state.

(B) Do not report estimated transmission losses.

(C) Report whether the final point of delivery is located in a linked jurisdiction published on the ecology website.

(D) Report GHG emissions calculated pursuant to this section.

(viii) Exchange agreements. The electric power entity must report delivered electricity under power exchange agreements consistent with imported and exported electricity requirements of this section. Electricity delivered into Washington state under exchange agreements must be reported as imported electricity and electricity delivered out of Washington state under exchange agreements must be reported as exported electricity.

(ix) Verification documentation. The electric power entity must retain for purposes of verification documentation of e-tags, written power contracts, settlements data, reports provided by the market operator to the electric power entity regarding electricity attributed to Washington for which that entity is the deemed market importer, and all other information required to confirm reported electricity procurements and deliveries pursuant to the recordkeeping requirements of WAC 173-441-050.

(x) Electricity generating units and cogeneration units in Washington state. Electric power entities that also operate electricity generating units or cogeneration units located

inside Washington state that meet the applicability requirements of WAC 173-441-030(1) must report GHG emissions to ecology under WAC 173-441-120.

(xi) Electricity generating units and cogeneration units outside Washington state. Operators and owners of electricity generating units and cogeneration units located outside Washington state who elect to report to ecology under WAC 173-441-030(5) must fully comply with the reporting and verification requirements of this chapter.

(b) Calculating GHG emissions.

(i) Calculating GHG emissions from unspecified sources. For electricity from unspecified sources, the electric power entity must calculate the annual CO₂ equivalent mass emissions using the following equation:

$$CO_2e = MWh \times TL \times EF_{unsp}$$

Where:

CO₂e = Annual CO₂ equivalent mass emissions from the unspecified electricity deliveries at each point of receipt identified (MT of CO₂e).

MWh = Megawatt-hours of unspecified electricity deliveries at each point of receipt identified.

EFunsp = Default emission factor for unspecified electricity imports.

EFunsp = 0.428 MT of CO₂e/MWh

TL = Transmission loss correction factor.

TL = 1.02 to account for transmission losses between the busbar and measurement at the first point of receipt in Washington.

(ii) Calculating GHG emissions from specified facilities or units. For electricity from specified facilities or units, including electricity that is deemed, designated, assigned, or attributed by a centralized electricity market, the electric power entity must calculate emissions using the following equation:

$$\text{CO}_2\text{e} = \text{MWh} \times \text{TL} \times \text{EF}_{\text{sp}} \quad (\text{Eq. 124-1})$$

Where:

- CO₂e = Annual CO₂ equivalent mass emissions from the specified electricity deliveries from each facility or unit claimed (MT of CO₂e).
- MWh = Megawatt-hours of specified electricity deliveries from each facility or unit claimed.
- EF_{sp} = Facility-specific or unit-specific emission factor published on the ecology website and calculated using

total emissions and transactions data as described below. The emission factor is based on data from the year prior to the reporting year.

- TL = Transmission loss correction factor.
- TL = 1.02 to account for transmission losses associated with generation outside of a Washington state balancing authority.
- TL = 1.0 if the reporting entity provides documentation that demonstrates to the satisfaction of a verifier and ecology that transmission losses have been accounted for, or are compensated by using electricity sourced from within Washington state, or for electricity from centralized electricity markets.

(A) Ecology shall calculate facility-specific or unit-specific emission factors and publish them on the ecology website using the following equation:

$$EF_{sp} = Esp/EG \quad (Eq. 124-2)$$

Where:

- Esp = CO₂e emissions for a specified facility or unit for the report year (MT of CO₂e).
- EG = Net generation from a specified facility or unit for the report year shall be based on data reported to the Energy Information Administration (EIA).

(B) To register a specified unit(s) source of power, the reporting entity must provide to ecology unit level GHG emissions consistent with the data source requirements of this section and net generation data as reported to the EIA, along with contracts for delivery of power from the specified unit(s) to the reporting entity, and proof of direct delivery of the power by the reporting entity as an import to Washington state.

(I) For specified facilities or units whose operators are subject to this chapter or whose owners or operators voluntarily report under this chapter, Esp shall be equal to the sum of CO₂e emissions reported pursuant to this section.

(II) For specified facilities or units whose operators are not subject to reporting under this chapter or whose owners or operators do not voluntarily report under this chapter, but are subject to the U.S. EPA GHG Mandatory Reporting Regulation, Esp shall be based on GHG emissions reported to U.S. EPA pursuant to 40 C.F.R. Part 98. For GHG emissions reported to U.S. EPA pursuant to 40 C.F.R. Part 98, if it is not possible to isolate the emissions that are directly related to electricity production, ecology may calculate Esp based on EIA data.

Emissions from combustion of biomass-derived fuels will be based on EIA data until such time the emissions are reported to U.S. EPA.

(III) For specified facilities or units whose operators are not subject to reporting under this chapter or whose owners or operators do not voluntarily report under this chapter, nor are subject to the U.S. EPA GHG Mandatory Reporting Regulation, Esp

is calculated using heat of combustion data reported to the Energy Information Administration (EIA) as shown below.

$$\text{Esp} = 0.001 \times \Sigma(\text{Q} \times \text{EF}) \quad (\text{Eq. 124-3})$$

Where:

- 0.001 = Conversion factor kg to MT
- Q = Heat of combustion for each specified fuel type from the specified facility or unit for the report year (MMBtu). For cogeneration, Q is the quantity of fuel allocated to electricity generation consistent with EIA reporting. For geothermal electricity, Q is the steam data reported to EIA (MMBtu).
- EF = CO₂e emission factor for the specified fuel type as required by this chapter (kg CO₂e/MMBtu). For geothermal electricity, EF is the estimated CO₂ emission factor published by EIA.

(IV) Facilities or units will be assigned an emission factor by the ecology based on the type of fuel combusted or the technology used when a U.S. EPA GHG Report or EIA fuel consumption report is not available, including new facilities and facilities located outside the U.S.

(V) Meter data requirement. For verification purposes, electric power entities shall retain meter generation data to document that the power claimed by the reporting entity was generated by the facility or unit at the time the power was directly delivered.

(VI) A lesser of analysis is applicable to imports from specified sources for which ecology has calculated an emission factor of zero, and for imports from Washington renewable portfolio standard (RPS) eligible resources, excluding the following: Dynamically tagged power deliveries; nuclear power; asset controlling supplier power; and imports from hydroelectric facilities for which an entity's share of metered output on an hourly basis is not established by power contract. A lesser of analysis is required pursuant to the following equation:

$$\text{Sum of Lesser of MWh} = \frac{\Sigma \text{HMsp} \min(\text{MGsp} * \text{Ssp}, \text{TGsp})}{\text{TGsp}} \quad (\text{Eq. 124-4})$$

Where:

- ΣHMsp = Sum of the Hourly Minimum of MGsp and TGsp (MWh).
- MGsp = Metered facility or unit net generation (MWh).
- Ssp = Entity's share of metered output, if applicable.
- TGsp = Tagged or transmitted energy at the transmission or subtransmission level imported to Washington (MWh).

(iii) Calculating GHG emissions of imported electricity supplied by asset-controlling suppliers. Based on annual reports submitted to ecology pursuant to WAC 173-441-070(3), ecology will calculate and publish on the ecology website the system emission factor for all asset-controlling suppliers recognized

by the ecology. The reporting entity must calculate emissions for electricity supplied using the following equation:

$$\text{CO}_2\text{e} = \text{MWh} \times \text{TL} \times \text{EF}_{\text{acs}} \quad (\text{Eq. 124-5})$$

Where:

CO_2 = Annual CO_2 equivalent mass emissions from the specified electricity deliveries from ecology-recognized asset-controlling suppliers (MT of CO_2e).

MWh = Megawatt-hours of specified electricity deliveries.

EFACS = Asset-Controlling Supplier system emission factor published on the ecology website (MT $\text{CO}_2\text{e}/\text{MWh}$). Ecology will assign the system emission factors for all asset-controlling suppliers based on a previously verified GHG report submitted to ecology pursuant to WAC 173-441-070(3). The supplier-specific system emission factor is calculated annually by ecology. The calculation is derived from data contained in annual reports submitted that have received a positive or qualified positive verification statement. The emission factor is based on data from two years prior to the reporting year.

TL = Transmission loss correction factor.

TL = 1.02 when deliveries are not reported as measured at a first point of receipt located within the balancing authority area of the asset-controlling supplier.

TL = 1.0 when deliveries are reported as measured at a first point of receipt located within the balancing authority area of the asset-controlling supplier.

Ecology must calculate the system emission factor for asset-controlling suppliers using the following equations:

$$\text{EFACS} = \frac{\text{Sum of System Emissions MT of } \text{CO}_2\text{e}}{\text{Sum of System MWh}} \quad (\text{Eq. 124-6})$$

$$\text{Sum of System Emissions, MT of CO}_2\text{e} = \Sigma\text{Easp} + \Sigma(\text{PEsp} * \text{EFsp}) + \Sigma(\text{PEunsp} * \text{EFunsp}) - \Sigma(\text{SEsp} * \text{EFsp}) \quad (\text{Eq. 124-7})$$

$$\text{Sum of System MWh} = \Sigma\text{EGasp} + \Sigma\text{PEsp} + \Sigma\text{PEunsp} - \Sigma\text{SEsp} \quad (\text{Eq. 124-8})$$

Where:

ΣEasp = Emissions from owned facilities. Sum of CO₂e emissions from each specified facility/unit in the asset-controlling supplier's fleet (MT of CO₂e).

ΣEGasp = Net generation from owned facilities. Sum of net generation for each specified facility/unit in the asset-controlling supplier's fleet for the data year as reported to ecology under this chapter (MWh).

PEsp = Electricity purchased from specified sources. Amount of electricity purchased wholesale and taken from specified sources by the asset-controlling supplier for the data year as reported to ecology under this chapter (MWh).

PEunsp = Electricity purchased from unspecified sources. Amount of electricity purchased wholesale from unspecified sources by the asset-controlling supplier for the data year as reported to ecology under this chapter (MWh).

SEsp = Electricity sold from specified sources. Amount of wholesale electricity sold from specified sources by the asset-controlling supplier for the data year as reported to ecology under this chapter (MWh).

EFsp = CO₂e emission factor as defined for each specified facility or unit calculated consistent with (b)(ii) of this subsection (MT CO₂e/MWh).

EFunsp = Default emission factor for unspecified sources calculated consistent with (b)(i) of this subsection (MT CO₂e/MWh).

(iv) Calculating GHG emissions of imported electricity for multijurisdictional retail providers. Multijurisdictional retail providers must include emissions and megawatt-hours in the terms

below from facilities or units that contribute to a common system power pool. Multijurisdictional retail providers do not include emissions or megawatt-hours in the terms below from facilities or units allocated to serve retail loads in designated states pursuant to a cost allocation methodology approved by the Washington state utilities and transportation commission and the utility regulatory commission of at least one additional state in which the multijurisdictional retail provider provides retail electric service. For multijurisdictional consumer-owned utilities, the cost allocation methodology must be approved by its governing board. Multijurisdictional retail providers must calculate emissions that have a compliance obligation using the following equation:

$$\text{CO}_2\text{e} = (\text{MWhR} \times \text{TLR} - \text{MWhWSP-WA} - \text{EGWA}) \times \text{EFMJRP-notWA} + \text{MWhSP-notWA} \times \text{TLWSP} \times \text{EFUnsp} \quad (\text{Eq. 124-9})$$

- CO₂e linked

Where:

- CO₂e = Annual CO₂e mass emissions of imported electricity (MT of CO₂e).
- MWhR = Total electricity procured by multijurisdictional retail provider to serve its retail customers in Washington, reported as retail sales for Washington state service territory, MWh.
- MWhWSP-WA = Wholesale electricity procured in Washington state by multijurisdictional retail provider to serve its retail customers in Washington state, as determined by the first point of receipt on a e-tag and pursuant to a cost allocation methodology approved by the Washington state utilities and transportation commission (UTC) and the utility regulatory commission of at least one additional state in which the multijurisdictional retail provider provides retail electric service, MWh. For multijurisdictional consumer-owned utilities,

		the cost allocation methodology must be approved by its governing board.
MWhWSP-not WA	=	Wholesale electricity imported into Washington state by multijurisdictional retail provider with a final point of delivery in Washington state and not used to serve its Washington state retail customers, MWh.
EFMJRP-not WA	=	Multijurisdictional retail provider system emission factor for out-of-state generation calculated by ecology and consistent with a cost allocation methodology approved by the Washington state utilities and transportation commission and the utility regulatory commission of at least one additional state in which the multijurisdictional retail provider provides retail electric service. For multijurisdictional consumer-owned utilities, the cost allocation methodology must be approved by its governing board.
EFunsp	=	Default emission factor for unspecified sources calculated consistent with this section (MT CO ₂ e/MWh).
EGWA	=	Net generation measured at the busbar of facilities and units located in Washington state that are allocated to serve its retail customers in Washington state pursuant to a cost allocation methodology approved by the Washington state utilities and transportation commission and the utility regulatory commission of at least one additional state in which the multijurisdictional retail provider provides retail electric service, MWh. For multijurisdictional consumer-owned utilities, the cost allocation methodology must be approved by its governing board.
TL	=	Transmission loss correction factor.
TL WSP	=	1.02 for transmission losses applied to wholesale power.
TL R	=	Estimate of transmission losses from busbar to end user reported by multijurisdictional retail provider.
CO ₂ e linked	=	Annual CO ₂ e mass emissions recognized by ecology pursuant to linkage under chapter 70A.65 RCW, as described in chapter 173-446 WAC (MT of CO ₂ e).

(c) Additional requirements for retail providers, excluding multijurisdictional retail providers. Retail providers must include the following information in the GHG emissions data report for each report year, in addition to the information identified in (a) (i), (ii), and (vii) of this subsection.

(i) Retail providers must report Washington state retail sales. A retail provider who is required only to report retail sales may choose not to apply the verification requirements specified in WAC 173-441-085, if the retail provider deems the emissions data report nonconfidential.

(ii) Retail providers may elect to report the subset of retail sales attributed to the electrification of shipping ports, truck stops, and motor vehicles if metering is available to separately track these sales from other retail sales.

(iii) Retail providers that report as electricity importers or exporters also must separately report electricity imported from specified and unspecified sources by other electric power entities to serve their load, designating the electricity importer. In addition, all imported electricity transactions documented by e-tags where the retail provider is the PSE at the sink must be reported.

(iv) Retail providers must report purchases from centralized electricity markets, based on annual totals of electricity purchased in MWh from each separate centralized electricity market.

(e) Additional requirements for multijurisdictional retail providers. Multijurisdictional retail providers that provide electricity into Washington state at the distribution level must include the following information in the GHG emissions data report for each report year, in addition to the information identified elsewhere in this section.

(i) A report of the electricity transactions and GHG emissions associated with the common power system or contiguous service territory that includes consumers in Washington state. This includes the requirements in this section as applicable for each generating facility or unit in the multijurisdictional retail provider's fleet;

(ii) The multijurisdictional retail provider must include in its emissions data report wholesale power purchased and taken (MWh) from specified and unspecified sources and wholesale power sold from specified sources according to the specifications in this section, and as required for ecology to calculate a supplier-specific emission factor;

(iii) Total retail sales (MWh) by the multijurisdictional retail provider in the contiguous service territory or power system that includes consumers in Washington state;

(iv) Retail sales (MWh) to Washington state customers served in Washington state's portion of the service territory;

(v) Retail sales derived from each centralized electricity market;

(vi) GHG emissions associated with the imported electricity, including both Washington state retail sales and wholesale power imported into Washington state from the retail provider's system, according to the specifications in this section;

(vii) Multijurisdictional retail providers that serve Washington state load must claim as specified power all power purchased or taken from facilities or units in which they have operational control or an ownership share or written power contract;

(viii) Multijurisdictional retail providers that serve Washington state load may elect to exclude information listed in this section when registering claims to specified power from

facilities located outside Washington state and participating in the Federal Energy Regulatory Commission's PURPA Qualifying Facility program.

(f) Additional requirements for asset-controlling suppliers. Owners or operators of electricity generating facilities or exclusive marketers for certain generating facilities may apply for an asset-controlling supplier designation from ecology. Approved asset-controlling suppliers may request that ecology calculate or adopt a supplier-specific emission factor pursuant to this section. To apply for asset-controlling supplier designation, the applicant must:

(i) Meet the requirements in this chapter, including reporting pursuant as applicable for each generating facility or unit in the supplier's fleet;

(ii) Include in its emissions data report wholesale power purchased and taken (MWh) from specified and unspecified sources and wholesale power sold from specified sources according to the specifications in this section, and as required for ecology to calculate a supplier-specific emission factor;

(iii) Retain for verification purposes documentation that the power sold by the supplier originated from the supplier's fleet of facilities and either that the fleet is under the supplier's operational control or that the supplier serves as the fleet's exclusive marketer;

(iv) Provide the supplier-specific ecology identification number to electric power entities who purchase electricity from the supplier's system.

(v) To apply for and maintain asset-controlling supplier status, the entity shall submit as part of its emissions data report the following information, annually:

(A) General business information, including entity name and contact information;

(B) List of officer names and titles;

(C) Data requirements as prescribed by ecology;

(D) A list and description of electricity generating facilities for which the reporting entity is a first jurisdiction deliverer; and

(E) An attestation, in writing and signed by an authorized officer of the applicant, as follows:

(I) "I certify under penalty of perjury under the laws of the State of Washington that I am duly authorized by (name of entity) to sign this attestation on behalf of (name of entity), that (name of entity) meets the definition of an asset-controlling supplier as specified in this section and that the information submitted herein is true, accurate, and complete."

(II) Asset-controlling suppliers must annually adhere to all reporting and verification requirements of this chapter, or be removed from asset-controlling supplier designation. Asset-controlling suppliers will also lose their designation if they receive an adverse verification statement, but may reapply in the following year for redesignation.

(g) Requirements for claims of specified sources of electricity. Each reporting entity claiming specified facilities or units for imported or exported electricity, including deemed market importers, must register its anticipated specified sources with ecology as part of their greenhouse gas report to obtain associated emission factors calculated by ecology for use in the emissions data report required to be submitted by the report submission due date in WAC 173-441-050 (2) (a). If an

operator fails to register a specified source by source by February 1 for sources used the previous year, the operator must use the emission factor provided by ecology for a specified facility or unit in the emissions data report required to be submitted by the report submission due date in WAC 173-441-050 (2) (a). Each reporting entity claiming specified facilities or units for imported or exported electricity must also meet requirements in the emissions data report.

(i) Registration information for specified sources. The following information is required:

(A) The facility names and, for specification to the unit level, the facility and unit names.

(B) For sources with a previously assigned ecology identification number, the ecology facility or unit identification number or supplier number published on ecology's website. For newly specified sources, ecology will assign a unique identification number.

(C) If applicable, the facility and unit identification numbers as used for reporting to the U.S. EPA Acid Rain Program, U.S. EPA pursuant to 40 C.F.R. Part 98, U.S. Energy Information

Administration, Federal Energy Regulatory Commission's PURPA Qualifying Facility program, as applicable.

(D) The physical address of each facility, including jurisdiction.

(E) Provide names of facility owner and operator.

(F) The percent ownership share and whether the facility or unit is under the electricity importer's operational control.

(G) Total facility or unit gross and net nameplate capacity when the electricity importer is a GPE.

(H) Total facility or unit gross and net generation when the electricity importer is a GPE.

(I) Start date of commercial operation and, when applicable, date of repowering.

(J) GPEs claiming additional capacity at an existing facility must include the implementation date, the expected increase in net generation (MWh), and a description of the actions taken to increase capacity.

(K) Designate whether the facility or unit is a newly specified source, a continuing specified source, or was a

specified source in the previous report year that will not be specified in the current report year.

(L) Provide the primary technology or fuel type as listed below:

(I) Variable renewable resources by type, defined for purposes of this chapter as pure solar, pure wind, and run-of-river hydroelectricity;

(II) Hybrid facilities such as solar thermal;

(III) Hydroelectric facilities \leq 30 MW, not run-of-river;

(IV) Hydroelectric facilities \geq 30 MW;

(V) Geothermal binary cycle plant or closed loop system;

(VI) Geothermal steam plant or open loop system;

(VII) Units combusting biomass-derived fuel, by primary fuel type;

(VIII) Nuclear facilities;

(IX) Cogeneration by primary fuel type;

(X) Fossil sources by primary fuel type;

(XI) Co-fired fuels;

(XII) Municipal solid waste combustion;

(XIII) Other.

(ii) Additional information for specified sources. For each claim to a specified source of electricity, the electricity importer must indicate whether one or more of the following descriptions applies:

(A) Deliveries from new facilities. Specified source of electricity is first registered pursuant to this section and delivered by an electricity importer within 12 months of the start date of commercial operation and the electricity importer making a claim in the current data year is either a GPE or purchaser of electricity under a written power contract;

(B) Deliveries from existing facilities with additional capacity. Specified source of electricity is first registered pursuant to this section and delivered by a GPE within 12 months of the start date of an increase in the facility's generating capacity due to increased efficiencies or other capacity increasing actions.

(iii) Additional information for market participants of centralized electricity markets for claims of specified sources of electricity. To receive a positive verification statement upon verification for claims of specified imports from a

centralized electricity market the electric power entity must be able to demonstrate proof to ecology's satisfaction that the market operator designated, assigned, deemed, or otherwise attributed that resource to Washington. Proof of such attribution may be demonstrated through the provision of records and other information from the market operator listing all market participants that were assigned the role of deemed market importer by the market operator. This provision of records and other information must be submitted to ecology in a manner designated by ecology by May 1 for electricity transactions involving centralized electricity markets in the previous calendar year.

(4) **Recordkeeping.** GHG inventory program for electric power entities that import or export electricity. In lieu of a GHG monitoring plan, electric power entities that import or export electricity must prepare GHG inventory program documentation that is maintained and available for verifier review and ecology audit pursuant to the recordkeeping requirements of this section. The following information is required:

(a) Information to allow the verification team to develop a general understanding of entity boundaries, operations, and electricity transactions;

(b) Reference to management policies or practices applicable to reporting pursuant to this section;

(c) List of key personnel involved in compiling data and preparing the emissions data report;

(d) Training practices for personnel involved in reporting delivered electricity and responsible for data report certification, including documented training procedures;

(e) Query of e-tag source data to determine the quantity of electricity (MWh) imported, exported, and wheeled for transactions in which they are the purchasing-selling entity on the last physical path segment that crosses the border of Washington state, access to review the raw e-tag data, a tabulated summary, and query description;

(f) Reference to other independent or internal data management systems and records, including written power contracts and associated verbal or electronic records, full or partial ownership, invoices, reports and statements from market

operators, and settlements data used to document whether reported transactions are specified or unspecified and whether the requirements for adjustments to covered emissions of chapter 70A.65 RCW, as described in chapter 173-446 WAC are met;

(g) Description of steps taken and calculations made to aggregate data into reporting categories required pursuant to this section;

(h) Records of preventive and corrective actions taken to address verifier and ecology findings of past nonconformances and material misstatements;

(i) Log of emissions data report modifications made after initial certification; and

(j) A written description of an internal audit program that includes emissions data report review and documents ongoing efforts to improve the GHG inventory program.

[Statutory Authority: RCW 70A.15.2200. WSR 22-05-050 (Order 21-07), § 173-441-124, filed 2/9/22, effective 3/12/22.]

WAC 173-441-140 Petitioning ecology to use an alternative calculation method to calculate greenhouse gas emissions.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-150 Confidentiality.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-160 Ecology to share information with local air authorities and with the energy facility site evaluation council.

[NO CHANGES TO THIS SECTION ARE PROPOSED]

WAC 173-441-170 Severability.

[NO CHANGES TO THIS SECTION ARE PROPOSED]