<u>E2SHB 1663</u> - S COMM AMD By Committee on Ways & Means

## ADOPTED AND ENGROSSED 3/4/2022

1 Strike everything after the enacting clause and insert the 2 following:

3 "<u>NEW SECTION.</u> Sec. 1. The definitions in this section apply 4 throughout this chapter unless the context clearly requires 5 otherwise.

6 (1) "Active municipal solid waste landfill" means a municipal 7 solid waste landfill that has accepted or is accepting solid waste 8 for disposal and has not been closed in accordance with the 9 requirements set forth in WAC 173-351-500 as it existed on January 10 10, 2022.

11 (2) "Air pollution" is presence in the outdoor atmosphere of one 12 or more air contaminants in sufficient quantities and of such 13 characteristics and duration as is, or is likely to be, injurious to 14 human health, plant or animal life, or property, or which 15 unreasonably interfere with enjoyment of life and property. For the 16 purpose of this chapter, air pollution does not include air 17 contaminants emitted in compliance with chapter 17.21 RCW.

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(3) "Ambient air" means the surrounding outside air.

19 (4) "Authority" means any air pollution control agency whose 20 jurisdictional boundaries are coextensive with the boundaries of one 21 or more counties.

(5) "Closed municipal solid waste landfill" means a municipal solid waste landfill that is no longer accepting solid waste for disposal and has been closed in accordance with the requirements set forth in WAC 173-351-500 as it existed on January 10, 2022.

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(6) "Department" means the department of ecology.

(7) "Emission" means a release of air contaminants into theambient air.

(8) "Gas collection system" means any system that employs various
gas collection wells and connected piping, and mechanical blowers,
fans, pumps, or compressors to create a pressure gradient and
actively extract landfill gas.

1 (9) "Gas control device" means any device used to dispose of or 2 treat collected landfill gas including, but not limited to, enclosed 3 flares, internal combustion engines, boilers and boiler-to-steam 4 turbine systems, fuel cells, and gas turbines.

5 (10) "Gas control system" means any system that disposes of or 6 treats collected landfill gas by one or more of the following means: 7 Combustion; gas treatment for subsequent sale, or sale for processing 8 offsite, including for transportation fuel and injection into a 9 natural gas pipeline.

10 (11) "Municipal solid waste landfill" means a discrete area of 11 land or an excavation that receives household waste and that is not a 12 land application site, surface impoundment, injection well, or pile.

13 (12) "Person" means an individual, firm, public or private 14 corporation, association, partnership, political subdivision of the 15 state, municipality, or governmental agency.

16 <u>NEW SECTION.</u> Sec. 2. (1) This chapter applies to all municipal 17 solid waste landfills that received solid waste after January 1, 18 1992, except as provided in subsection (2) of this section.

(2) This chapter does not apply to the following landfills:

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(a) Landfills that receive only hazardous waste, or are currently
 regulated under the comprehensive environmental response,
 compensation, and liability act, 42 U.S.C. chapter 103; and

23 (b) Landfills that receive only inert waste or nondecomposable 24 wastes.

(3) The department must adopt rules to implement this chapter. The rules adopted by the department must be informed by landfill methane regulations adopted by the California air resources board, the Oregon environmental quality commission, and the United States environmental protection agency.

30 <u>NEW SECTION.</u> Sec. 3. (1) Each owner or operator of an active 31 municipal solid waste landfill having fewer than 450,000 tons of 32 waste in place must submit an annual waste in place report to the 33 department or local authority pursuant to section 7 of this act.

(a) The waste in place report must be prepared for the period of
January 1st through December 31st of each year. The report must be
submitted to the department or local authority during the subsequent
calendar year, with the date of submission to be established by rule
as adopted by the department.

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1 (b) The waste in place report must be submitted annually until 2 either:

3 (i) The active municipal solid waste landfill reaches a size 4 greater than or equal to 450,000 tons of waste in place; or

5 (ii) The owner or operator submits a closure notification 6 pursuant to section 7 of this act.

7 (2) Each owner or operator of either an active municipal solid 8 waste landfill having greater than or equal to 450,000 tons of waste 9 in place or a closed municipal solid waste landfill having greater 10 than or equal to 750,000 tons of waste in place must calculate the 11 landfill gas heat input capacity pursuant to section 8 of this act 12 and the department's implementing rules and must submit a landfill 13 gas heat input capacity report to the department or local authority.

14 (a) If the calculated landfill gas heat input capacity is less 15 than 3,000,000 British thermal units per hour recovered, the owner or 16 operator must:

(i) Recalculate the landfill gas heat input capacity annually using the procedures specified in section 8 of this act and the department's implementing rules; and

(ii) Submit an annual landfill gas heat input capacity report to the department or local authority until either of the following conditions are met:

(A) The calculated landfill gas heat input capacity is greater
 than or equal to 3,000,000 British thermal units per hour recovered;
 or

(B) If the municipal solid waste landfill is active, the owner or operator submits a closure notification pursuant to section 7 of this act.

(b) If the landfill gas heat input capacity is greater than or equal to 3,000,000 British thermal units per hour recovered, the owner or operator must either:

32 (i) Comply with the requirements of this chapter and the 33 department's implementing rules; or

(ii) Demonstrate to the satisfaction of the department or local authority that after four consecutive quarterly monitoring periods there is no measured concentration of methane of 200 parts per million by volume or greater using the instantaneous surface monitoring procedures specified in section 8 of this act and the department's implementing rules. Based on the monitoring results, the owner or operator must do one of the following:

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1 (A) If there is any measured concentration of methane of 200 2 parts per million by volume or greater from the surface of an active, 3 inactive, or closed municipal solid waste landfill, comply with this 4 chapter and the department's implementing rules adopted pursuant to 5 section 2 of this act;

6 (B) If there is no measured concentration of methane of 200 parts 7 per million by volume or greater from the surface of an active 8 municipal solid waste landfill, recalculate the landfill gas heat 9 input capacity annually as required in (a) of this subsection until 10 such time that the owner or operator submits a closure notification 11 pursuant to section 7 of this act and the department's implementing 12 rules adopted pursuant to section 2 of this act; or

13 (C) If there is no measured concentration of methane of 200 parts 14 per million by volume or greater from the surface of a closed or 15 inactive municipal solid waste landfill, the requirements of this 16 chapter and the department's implementing rules adopted pursuant to 17 section 2 of this act no longer apply, provided that the following 18 information is submitted to and approved by the department or local 19 authority:

(I) A waste in place report pursuant to section 7 of this act and the department's implementing rules adopted pursuant to section 2 of this act; and

23 (II) All instantaneous surface monitoring records.

24 <u>NEW SECTION.</u> Sec. 4. (1) The owner or operator of any municipal 25 solid waste landfill that has a calculated landfill gas heat input capacity greater than or equal to 3,000,000 British thermal units per 26 27 hour recovered must install a gas collection and control system that meets the requirements of this section and the department's 28 implementing rules adopted pursuant to section 2 of this act, unless 29 30 owner or operator demonstrates to the satisfaction of the the department or local authority that after four consecutive quarterly 31 monitoring periods there is no measured concentration of methane of 32 200 parts per million by volume or greater using the instantaneous 33 surface monitoring procedures specified in section 8 of this act and 34 35 the department's implementing rules adopted pursuant to section 2 of this act. If a municipal solid waste landfill partners with a third 36 party to operate all or a portion of the gas collection and control 37 system or energy recovery device, the obligation to comply with the 38 requirements of this chapter are the responsibility of the owner or 39 Official Print - 4 1663-S2.E AMS ENGR S5144.E operator of the relevant portion of the gas collection and control
 system or energy recovery device.

3 (2) The gas collection and control system must handle the 4 expected gas generation flow rate from the entire area of the 5 municipal solid waste landfill and must collect gas at an extraction 6 rate to comply with the surface methane emission limits set forth in 7 section 5 of this act and the department's implementing rules.

8 (3) The gas collection and control system must be designed and 9 operated so that there is no landfill gas leak that exceeds 500 parts 10 per million by volume, measured as methane, at any component under 11 positive pressure.

12 (4) The gas collection and control system, if it uses a flare, 13 must achieve a methane destruction efficiency of at least 99 percent 14 by weight and must use either an enclosed flare or, if the system 15 uses an open flare, the open flare must comply with the following 16 requirements:

(a) The open flare must meet the requirements of 40 C.F.R. Sec.
60.18 (as last amended by 73 Fed. Reg. 78209, December 22, 2008);

(b) An open flare installed and operating prior to December 31, 19 2022, may operate until January 1, 2032, unless the owner or operator 20 demonstrates to the satisfaction of the department or local authority 21 22 that the landfill gas heat input capacity is less than 3,000,000 British thermal units per hour pursuant to section 8 of this act and 23 the department's implementing rules adopted pursuant to section 2 of 24 25 this act and is insufficient to support the continuous operation of 26 an enclosed flare or other gas control device; and

(c) The owner or operator may temporarily operate an open flare 27 during the repair or maintenance of the gas control system, or while 28 awaiting the installation of an enclosed flare, or to address offsite 29 gas migration issues. Any owner or operator seeking to temporarily 30 31 operate an open flare must submit a written request to the department or local authority pursuant to section 10 of this act and the 32 department's implementing rules adopted pursuant to section 2 of this 33 34 act.

(5) If the gas collection and control system does not use a flare, it must either route the collected gas to an energy recovery device or devices, or must route the collected gas to a treatment system that processes the collected gas for subsequent sale or use.

39 (6) If a gas collection and control system routes the collected 40 gas to an energy recovery device or devices, the owner or operator of 0fficial Print - 5 1663-S2.E AMS ENGR S5144.E 1 the energy recovery device or devices must comply with the following 2 requirements:

3 (a) The device or devices must achieve a methane destruction 4 efficiency of at least 97 percent by weight, except for lean-burn 5 internal combustion engines that were installed and operating prior 6 to January 1, 2022, which must reduce the outlet methane 7 concentration to less than 3,000 parts per million by volume, dry 8 basis corrected to 15 percent oxygen; and

9 (b) If a boiler or a process heater is used as the gas control 10 device, the landfill gas stream must be introduced into the flame 11 zone, except that where the landfill gas is not the primary fuel for 12 the boiler or process heater, introduction of the landfill gas stream 13 into the flame zone is not required.

(7) If a gas collection and control system routes the collected 14 gas to a treatment system that processes the collected gas for 15 16 subsequent sale or use, the owner or operator of the treatment system 17 must ensure the system achieves a methane leak rate of three percent or less by weight. Venting of processed landfill gas to the ambient 18 air is not allowed. If the processed landfill gas cannot be routed 19 for subsequent sale or use, then the treated landfill gas must be 20 21 controlled according to subsection (4) of this section.

(8) The owner or operator of a municipal solid waste landfill 22 must conduct a source test for any gas control device or devices 23 subject to this section using the test methods identified in section 24 25 8 of this act and the department's implementing rules adopted pursuant to section 2 of this act. If a gas control device is 26 currently in compliance with source testing requirements as of the 27 effective date of this section, the owner or operator must conduct 28 29 the source test no less frequently than once every five years. If a gas control device is currently not in compliance with source testing 30 31 requirements as of the effective date of this section, or if a subsequent source test shows the gas control device is out of 32 compliance, the owner or operator must conduct the source test no 33 less frequently than once per year until two subsequent consecutive 34 tests both show compliance. Upon two subsequent consecutive compliant 35 36 tests, the owner or operator may return to conducting the source test no less frequently than once every five years. 37

38 <u>NEW SECTION.</u> Sec. 5. (1) Except as provided in section 4 of 39 this act, beginning January 1st of the year following the year in Official Print - 6 1663-S2.E AMS ENGR S5144.E

which the department adopts rules to implement this chapter, or upon 1 commencing operation of a newly installed gas collection and control 2 system or modification of an existing gas collection and control 3 system pursuant to section 4 of this act, whichever is later, and 4 except as provided by the department to accommodate significant 5 6 technological improvements, which may include the installation of an 7 energy recovery device or devices, not to exceed 24 months after the department adopts rules to implement this chapter, no location on a 8 municipal solid waste landfill surface may exceed the following 9 methane concentration limits, dependent upon whether the owner or 10 11 operator of the municipal solid waste landfills conducts, pursuant to section 6 of this act, instantaneous surface emissions monitoring or 12 integrated surface emissions monitoring: 13

14 (a) Five hundred parts per million by volume, other than 15 nonrepeatable, momentary readings, as determined by instantaneous 16 surface emissions monitoring; or

17 (b) An average methane concentration limit of 25 parts per 18 million by volume as determined by integrated surface emissions 19 monitoring.

20 (2) Any reading exceeding the limits set forth in subsection (1) 21 of this section must be recorded as an exceedance and the following 22 actions must be taken:

(a) The owner or operator must record the date, location, and value of each exceedance, along with retest dates and results. The location of each exceedance must be clearly marked and identified on a topographic map of the municipal solid waste landfill, drawn to scale, with the location of both the monitoring grids and the gas collection system clearly identified; and

(b) The owner or operator must take corrective action, which may include, but not be limited to, maintenance or repair of the cover, or well vacuum adjustments. The location or locations of any exceedance must be remonitored within 10 calendar days of a measured exceedance.

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(3) The requirements of this section do not apply to:

35 (a) The working face of the landfill;

36 (b) Areas of the landfill surface where the landfill cover 37 material has been removed for the purpose of installing, expanding, 38 replacing, or repairing components of the landfill cover system, the 39 landfill gas collection and control system, the leachate collection 1 and removal system, or a landfill gas condensate collection and 2 removal system;

3 (c) Areas of the landfill surface where the landfill cover 4 material has been removed for law enforcement activities requiring 5 excavation; or

6 (d) Areas of the landfill in which the landfill owner or 7 operator, or a designee of the owner or operator, is engaged in 8 active mining for minerals or metals.

9 <u>NEW SECTION.</u> Sec. 6. (1) The owner or operator of a municipal 10 solid waste landfill with a gas collection and control system must 11 conduct instantaneous or integrated surface monitoring of the 12 landfill surface according to the requirements specified in 13 implementing rules adopted by the department pursuant to section 2 of 14 this act.

15 (2) The owner or operator of a municipal solid waste landfill 16 with a gas collection and control system must monitor the gas control 17 system according to the requirements specified in implementing rules 18 adopted by the department pursuant to section 2 of this act.

19 (3) The owner or operator of a municipal solid waste landfill 20 with a gas collection and control system must monitor each individual 21 wellhead to determine the gauge pressure according to the 22 requirements specified in implementing rules adopted by the 23 department pursuant to section 2 of this act.

NEW SECTION. Sec. 7. (1) The owner or operator of a municipal solid waste landfill must maintain records and prepare reports as prescribed in this section and in the department's implementing rules adopted pursuant to section 2 of this act.

(2) The owner or operator of a municipal solid waste landfill must maintain records related to monitoring, testing, landfill operations, and the operation of the gas control device, gas collection system, and gas control system. The records must be provided by the owner or operator to the department or local authority within five business days of a request from the department or local authority.

35 (3) The owner or operator of a municipal solid waste landfill 36 that ceases to accept waste must submit a closure notification to the 37 department or local authority within 30 days of ceasing to accept 38 waste.

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1 (4) The owner or operator of a municipal solid waste landfill 2 must submit a gas collection and control system equipment removal 3 report to the department or local authority within 30 days of well 4 capping or the removal or cessation of operation of the gas 5 collection, treatment, or control system equipment.

6 (5) The owner or operator of either an active municipal solid waste landfill with 450,000 or more tons of waste in place or a 7 closed municipal solid waste landfill with 750,000 or more tons of 8 waste in place must prepare an annual report for the period of 9 January 1st through December 31st of each year. The annual report 10 11 must include a calculation of landfill gas heat input capacity. Each 12 annual report must be submitted to the department and local authority during the subsequent calendar year, with the date of submission to 13 be established through rules adopted by the department. 14

15 (6) The owner or operator of an active municipal solid waste 16 landfill with fewer than 450,000 tons of waste in place must submit a 17 waste in place report to the department or local authority.

18 <u>NEW SECTION.</u> Sec. 8. (1) Any instrument used for the 19 measurement of methane must be a hydrocarbon detector or other 20 equivalent instrument approved by the department or local authority 21 based on standards adopted by the department that address 22 calibration, specifications, and performance criteria.

(2) The determination of landfill gas heat input capacity must be calculated consistent with the department's implementing rules adopted pursuant to section 2 of this act.

(3) The owner or operator of a municipal solid waste landfill must measure the landfill surface concentration of methane using a hydrocarbon detector meeting the requirements of this section and the department's implementing rules adopted pursuant to section 2 of this act.

31 (4) The owner or operator of a municipal solid waste landfill 32 must measure leaks using a hydrocarbon detector meeting the 33 requirements of this section and the department's implementing rules 34 adopted pursuant to section 2 of this act.

35 (5) The expected gas generation flow rate must be determined 36 according to the department's implementing rules adopted pursuant to 37 section 2 of this act. 1 (6) The control device destruction efficiency must be determined 2 according to the department's implementing rules adopted pursuant to 3 section 2 of this act.

4 (7) Gauge pressure must be determined using a hand-held 5 manometer, magnehelic gauge, or other pressure measuring device 6 approved by the department or local authority.

7 (8) Alternative test methods may be used if they are approved in8 writing by the department or local authority.

9 <u>NEW SECTION.</u> Sec. 9. (1) The department or local authority must 10 allow the capping or removal of the gas collection and control system 11 at a closed municipal solid waste landfill, provided the following 12 three requirements are met:

(a) The gas collection and control system was in operation for at least 15 years, unless the owner or operator demonstrates to the satisfaction of the department or local authority that due to declining methane rates, the municipal solid waste landfill will be unable to operate the gas collection and control system for a 15 year period;

(b) Surface methane concentration measurements do not exceed thelimits specified in section 5 of this act; and

(c) The owner or operator submits an equipment removal report to the department or local authority pursuant to section 7 of this act and the department's implementing rules adopted pursuant to section 2 of this act.

25 (2) Nothing in this section may be interpreted to modify or 26 supersede requirements related to the capping or removal of gas 27 collection and control systems that may exist under the state clean 28 air act, the federal clean air act, or rules adopted pursuant to 29 either the state clean air act or the federal clean air act.

NEW SECTION. Sec. 10. (1) The owner or operator of a municipal solid waste landfill may request alternatives to the compliance measures, monitoring requirements, and test methods and procedures set forth in sections 4, 6, and 8 of this act, and the department's implementing rules adopted pursuant to section 2 of this act. Any alternatives requested by the owner or operator must be submitted in writing to the department.

37 (2) The criteria that the department may use to evaluate 38 alternative compliance option requests include, but are not limited 0fficial Print - 10 1663-S2.E AMS ENGR S5144.E to: Compliance history; documentation containing the landfill gas flow rate and measured methane concentrations for individual gas collection wells or components; permits; component testing and surface monitoring results; gas collection and control system operation, maintenance, and inspection records; and historical meteorological data.

7 (3) The department must review the requested alternatives and 8 either approve or disapprove the alternatives within 120 days. The 9 department may request that additional information be submitted as 10 part of the review of the requested alternatives.

(4) If a request for an alternative compliance option is denied,the department must provide written reasons for the denial.

(5) The department must deny a request for alternative compliance measures if the request does not provide levels of enforceability or methane emissions control that are equivalent to those set forth in this chapter or in the department's implementing rules adopted pursuant to section 2 of this act.

NEW SECTION. Sec. 11. The department or local authority may request that any owner or operator of a municipal solid waste landfill demonstrate that a landfill does not meet the applicability criteria specified in section 2 of this act. Such a demonstration must be submitted to the department or local authority within 90 days of a written request received from the department or local authority.

24 <u>NEW SECTION.</u> Sec. 12. Any person who violates this chapter or 25 any rules that implement this chapter may incur a civil penalty 26 pursuant to RCW 70A.15.3160. The department shall waive penalties in 27 the event the owner or operator of the landfill is actively taking corrective actions to control any methane exceedances. Penalties 28 29 collected under this section must be deposited into the air pollution 30 control account created in RCW 70A.15.1010 and may only be used to 31 implement chapter 70A.--- RCW (the new chapter created in section 18 of this act). 32

33 <u>NEW SECTION.</u> Sec. 13. The department and local authorities may 34 assess and collect such fees as may be necessary to recover the 35 direct and indirect costs associated with the implementation of this 36 chapter. 1 Sec. 14. RCW 70A.65.080 and 2021 c 316 s 10 are each amended to 2 read as follows:

(1) A person is a covered entity as of the beginning of the first 3 compliance period and all subsequent compliance periods if the person 4 reported emissions under RCW 70A.15.2200 for any calendar year from 5 6 2015 through 2019, or if additional data provided as required by this chapter indicates that emissions for any calendar year from 2015 7 through 2019 equaled or exceeded any of the following thresholds, or 8 if the person is a first jurisdictional deliverer and imports 9 electricity into the state during the compliance period: 10

(a) Where the person owns or operates a facility and the facility's emissions equal or exceed 25,000 metric tons of carbon dioxide equivalent;

(b) Where the person is a first jurisdictional deliverer and generates electricity in the state and emissions associated with this generation equals or exceeds 25,000 metric tons of carbon dioxide equivalent;

18 (c) Where the person is a first jurisdictional deliverer importing electricity into the state and the cumulative annual total 19 of emissions associated with the imported electricity, whether from 20 specified or unspecified sources, exceeds 25,000 metric tons of 21 22 carbon dioxide equivalent. In consultation with anv linked jurisdiction to the program created by this chapter, by October 1, 23 2026, the department, in consultation with the department of commerce 24 25 and the utilities and transportation commission, shall adopt by rule 26 a methodology for addressing imported electricity associated with a centralized electricity market; 27

(d) Where the person is a supplier of fossil fuel other than natural gas and from that fuel 25,000 metric tons or more of carbon dioxide equivalent emissions would result from the full combustion or oxidation, excluding the amounts for fuel products that are produced or imported with a documented final point of delivery outside of Washington and combusted outside of Washington; and

(e) (i) Where the person supplies natural gas in amounts that would result in exceeding 25,000 metric tons of carbon dioxide equivalent emissions if fully combusted or oxidized, excluding the amounts for fuel products that are produced or imported with a documented final point of delivery outside of Washington and combusted outside of Washington, and excluding the amounts: (A) Supplied to covered entities under (a) through (d) of this
 subsection; and (B) delivered to opt-in entities;

3 (ii) Where the person who is not a natural gas company and has a 4 tariff with a natural gas company to deliver to an end-use customer 5 in the state in amounts that would result in exceeding 25,000 metric 6 tons of carbon dioxide equivalent emissions if fully combusted or 7 oxidized, excluding the amounts: (A) Supplied to covered entities 8 under (a) through (d) of this subsection; and (B) the amounts 9 delivered to opt-in entities;

(iii) Where the person is an end-use customer in the state who 10 directly purchases natural gas from a person that is not a natural 11 12 gas company and has the natural gas delivered through an interstate pipeline to a distribution system owned by the purchaser in amounts 13 that would result in exceeding 25,000 metric tons of carbon dioxide 14 equivalent emissions if fully combusted or oxidized, excluding the 15 16 amounts: (A) Supplied to covered entities under (a) through (d) of 17 this subsection; and (B) delivered to opt-in entities.

(2) A person is a covered entity as of the beginning of the 18 second compliance period and all subsequent compliance periods if the 19 person reported emissions under RCW 70A.15.2200 or provided emissions 20 21 data as required by this chapter for any calendar year from 2023 22 through 2025, where the person owns or operates a waste to energy 23 facility utilized by a county and city solid waste management program and the facility's emissions equal or exceed 25,000 metric tons of 24 25 carbon dioxide equivalent.

31 (i) Landfill utilized by a county and city solid waste management 32 program and the facility's emissions equal or exceed 25,000 metric 33 tons of carbon dioxide equivalent; or

34 (ii) Railroad)) railroad company, as that term is defined in RCW
 35 81.04.010, and the railroad company's emissions equal or exceed
 36 25,000 metric tons of carbon dioxide equivalent.

37 (((b) Subsection (a) of this subsection does not apply to owners 38 or operators of landfills that:

39 (i) Capture at least 75 percent of the landfill gas generated by 40 the decomposition of waste using methods under 40 C.F.R. Part 98,

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3 (ii) Operate a program, individually or through partnership with another entity, that results in the production of renewable natural 4 gas or electricity from landfill gas generated by the facility. 5

6 (c) It is the intent of the legislature to adopt a greenhouse gas reduction policy specific to landfills. If such a policy is not 7 enacted by January 1, 2030, the requirements of this subsection (3) 8 9 take full effect.))

(4) When a covered entity reports, during a compliance period, 10 11 emissions from a facility under RCW 70A.15.2200 that are below the thresholds specified in subsection (1) or (2) of this section, the 12 covered entity continues to have a compliance obligation through the 13 current compliance period. When a covered entity reports emissions 14 below the threshold for each year during an entire compliance period, 15 16 or has ceased all processes at the facility requiring reporting under 17 RCW 70A.15.2200, the entity is no longer a covered entity as of the beginning of the subsequent compliance period unless the department 18 19 provides notice at least 12 months before the end of the compliance period that the facility's emissions were within 10 percent of the 20 threshold and that the person will continue to be designated as a 21 22 covered entity in order to ensure equity among all covered entities. 23 Whenever a covered entity ceases to be a covered entity, the department shall notify the appropriate policy and fiscal committees 24 25 of the legislature of the name of the entity and the reason the 26 entity is no longer a covered entity.

(5) For types of emission sources described in subsection (1) of 27 28 this section that begin or modify operation after January 1, 2023, and types of emission sources described in subsection (2) of this 29 section that begin or modify operation after 2027, coverage under the 30 31 program starts in the calendar year in which emissions from the 32 source exceed the applicable thresholds in subsection (1) or (2) of this section, or upon formal notice from the department that the 33 source is expected to exceed the applicable emissions threshold, 34 whichever happens first. Sources meeting these conditions are 35 required to transfer their first allowances on the first transfer 36 deadline of the year following the year in which their emissions were 37 38 equal to or exceeded the emissions threshold.

39 (6) For emission sources described in subsection (1) of this 40 section that are in operation or otherwise active between 2015 and 1663-S2.E AMS ENGR S5144.E

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2019 but were not required to report emissions for those years under 1 RCW 70A.15.2200 for the reporting periods between 2015 and 2019, 2 coverage under the program starts in the calendar year following the 3 year in which emissions from the source exceed the applicable 4 thresholds in subsection (1) of this section as reported pursuant to 5 6 RCW 70A.15.2200 or provided as required by this chapter, or upon formal notice from the department that the source is expected to 7 exceed the applicable emissions threshold for the first year that 8 source is required to report emissions, whichever happens first. 9 Sources meeting these criteria are required to transfer their first 10 allowances on the first transfer deadline of the year following the 11 12 year in which their emissions, as reported under RCW 70A.15.2200 or provided as required by this chapter, were equal to or exceeded the 13 emissions threshold. 14

15 (7) The following emissions are exempt from coverage in the 16 program, regardless of the emissions reported under RCW 70A.15.2200 17 or provided as required by this chapter:

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(a) Emissions from the combustion of aviation fuels;

19 (b) Emissions from watercraft fuels supplied in Washington that 20 are combusted outside of Washington;

(c) Emissions from a coal-fired electric generation facility exempted from additional greenhouse gas limitations, requirements, or performance standards under RCW 80.80.110;

24 (d) Carbon dioxide emissions from the combustion of biomass or 25 biofuels;

(e) (i) Motor vehicle fuel or special fuel that is used exclusively for agricultural purposes by a farm fuel user. This exemption is available only if a buyer of motor vehicle fuel or special fuel provides the seller with an exemption certificate in a form and manner prescribed by the department. For the purposes of this subsection, "agricultural purposes" and "farm fuel user" have the same meanings as provided in RCW 82.08.865.

(ii) The department must determine a method for expanding the exemption provided under (e)(i) of this subsection to include fuels used for the purpose of transporting agricultural products on public highways. The department must maintain this expanded exemption for a period of five years, in order to provide the agricultural sector with a feasible transition period; ((and))

39 (f) Emissions from facilities with North American industry 40 classification system code 92811 (national security); and

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1 (g) Emissions from municipal solid waste landfills that are 2 subject to, and in compliance with, chapter 70A.--- RCW (the new 3 chapter created in section 18 of this act).

(8) The department shall not require multiple covered entities to 4 have a compliance obligation for the same emissions. The department 5 6 may by rule authorize refineries, fuel suppliers, facilities using natural gas, and natural gas utilities to provide by agreement for 7 the assumption of the compliance obligation for fuel or natural gas 8 supplied and combusted in the state. The department must be notified 9 of such an agreement at least 12 months prior to the compliance 10 11 obligation period for which the agreement is applicable.

12 (9)(a) The legislature intends to promote a growing and 13 sustainable economy and to avoid leakage of emissions from 14 manufacturing to other locations. The legislature further intends to 15 see innovative new businesses locate and grow in Washington that 16 contribute to Washington's prosperity and environmental objectives.

17 (b) Consistent with the intent of the legislature to avoid the leakage of emissions to other jurisdictions, in achieving the state's 18 greenhouse gas limits in RCW 70A.45.020, the state, including lead 19 agencies under chapter 43.21C RCW, shall pursue the limits in a 20 21 manner that recognizes that the siting and placement of new or 22 expanded best-in-class facilities with lower carbon emitting 23 processes is in the economic and environmental interests of the state 24 of Washington.

(c) In conducting a life-cycle analysis, if required, for new or 25 expanded facilities that require review under chapter 43.21C RCW, a 26 lead agency must evaluate and attribute any potential net cumulative 27 greenhouse gas emissions resulting from the project as compared to 28 other existing facilities or best available technology including 29 best-in-class facilities and emerging lower carbon processes that 30 31 supply the same product or end use. The department may adopt rules to 32 determine the appropriate threshold for applying this analysis.

(d) Covered emissions from an entity that is or will be a covered entity under this chapter may not be the basis for denial of a permit for a new or expanded facility. Covered emissions must be included in the analysis undertaken pursuant to (c) of this subsection. Nothing in this subsection requires a lead agency or a permitting agency to approve or issue a permit to a permit applicant, including to a new or expanded fossil fuel project. 1 (e) A lead agency under chapter 43.21C RCW or a permitting agency shall allow a new or expanded facility that is a covered entity or 2 opt-in entity to satisfy a mitigation requirement for its covered 3 emissions under chapter 316, Laws of 2021 and under any greenhouse 4 gas emission mitigation requirements for covered emissions under 5 6 chapter 43.21C RCW by submitting to the department the number of compliance instruments equivalent to its covered emissions during a 7 compliance period. 8

9 Sec. 15. RCW 70A.15.3160 and 2021 c 317 s 25, 2021 c 315 s 16, and 2021 c 132 s 1 are each reenacted and amended to read as follows: 10 11 (1) (a) Except as provided in RCW 43.05.060 through 43.05.080 and 43.05.150, and in addition to or as an alternate to any other penalty 12 provided by law, any person who violates any of the provisions of 13 this chapter, chapter 70A.25, 70A.60, 70A.450, ((or 70A.60)) 70A.535 14 ((RCW)), or 70A.--- RCW (the new chapter created in section 18 of 15 16 this act), RCW 76.04.205, or any of the rules in force under such chapters or section may incur a civil penalty in an amount not to 17 exceed ten thousand dollars per day for each violation. Each such 18 violation shall be a separate and distinct offense, and in case of a 19 20 continuing violation, each day's continuance shall be a separate and distinct violation. Enforcement actions related to violations of RCW 21 22 76.04.205 must be consistent with the provisions of RCW 76.04.205.

(b) Any person who fails to take action as specified by an order issued pursuant to this chapter shall be liable for a civil penalty of not more than ten thousand dollars for each day of continued noncompliance.

(2) (a) Penalties incurred but not paid shall accrue interest, beginning on the ninety-first day following the date that the penalty becomes due and payable, at the highest rate allowed by RCW 19.52.020 on the date that the penalty becomes due and payable. If violations or penalties are appealed, interest shall not begin to accrue until the thirty-first day following final resolution of the appeal.

33 (b) The maximum penalty amounts established in this section may 34 be increased annually to account for inflation as determined by the 35 state office of the economic and revenue forecast council.

36 (3) Each act of commission or omission which procures, aids or 37 abets in the violation shall be considered a violation under the 38 provisions of this section and subject to the same penalty. The 1 penalties provided in this section shall be imposed pursuant to RCW 2 43.21B.300.

3 (4) (a) Except as provided in (b) of this subsection, all penalties recovered under this section by the department or the 4 department of natural resources shall be paid into the state treasury 5 6 and credited to the air pollution control account established in RCW 7 70A.15.1010 or, if recovered by the authority, shall be paid into the treasury of the authority and credited to its funds. If a prior 8 penalty for the same violation has been paid to a local authority, 9 the penalty imposed by the department under subsection (1) of this 10 11 section shall be reduced by the amount of the payment.

(b) All penalties recovered for violations of chapter 70A.60 RCW
must be paid into the state treasury and credited to the refrigerant
emission management account created in RCW 70A.60.050.

15 (5) To secure the penalty incurred under this section, the state 16 or the authority shall have a lien on any vessel used or operated in 17 violation of this chapter which shall be enforced as provided in RCW 18 60.36.050.

19 (6) Public or private entities that are recipients or potential 20 recipients of department grants, whether for air quality related 21 activities or not, may have such grants rescinded or withheld by the 22 department for failure to comply with provisions of this chapter.

(7) In addition to other penalties provided by this chapter, persons knowingly underreporting emissions or other information used to set fees, or persons required to pay emission or permit fees who are more than ninety days late with such payments may be subject to a penalty equal to three times the amount of the original fee owed.

(8) The department shall develop rules for excusing excess emissions from enforcement action if such excess emissions are unavoidable. The rules shall specify the criteria and procedures for the department and local air authorities to determine whether a period of excess emissions is excusable in accordance with the state implementation plan.

34 Sec. 16. RCW 70A.15.1010 and 2021 c 315 s 13 are each amended to 35 read as follows:

(1) The air pollution control account is established in the state treasury. All receipts collected by or on behalf of the department from RCW 70A.15.2200(2), and receipts from nonpermit program sources under RCW 70A.15.2210(1) and 70A.15.2230(7), and all receipts from

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RCW 70A.15.5090 ((and)), 70A.15.5120, and section 12 of this act 1 shall be deposited into the account. Moneys in the account may be 2 spent only after appropriation. Expenditures from the account may be 3 used only to develop and implement the provisions of this chapter, 4 chapters 70A.25 and 70A.--- (the new chapter created in section 18 of 5 6 this act) RCW, and RCW 70A.60.060. Moneys collected under section 12 7 of this act may only be used to implement chapter 70A.--- RCW (the new chapter created in section 18 of this act). 8

9 (2) The amounts collected and allocated in accordance with this 10 section shall be expended upon appropriation except as otherwise 11 provided in this section and in accordance with the following 12 limitations:

Portions of moneys received by the department of ecology from the air pollution control account shall be distributed by the department to local authorities based on:

16 (a) The level and extent of air quality problems within such 17 authority's jurisdiction;

18 (b) The costs associated with implementing air pollution 19 regulatory programs by such authority; and

20 (c) The amount of funding available to such authority from other 21 sources, whether state, federal, or local, that could be used to 22 implement such programs.

(3) The air operating permit account is created in the custody of 23 24 the state treasurer. All receipts collected by or on behalf of the 25 department from permit program sources under RCW 70A.15.2210(1), 26 70A.15.2260, 70A.15.2270, and 70A.15.2230(7) shall be deposited into 27 the account. Expenditures from the account may be used only for the activities described in RCW 70A.15.2210(1), 70A.15.2260, 70A.15.2270, 28 29 and 70A.15.2230(7). Moneys in the account may be spent only after 30 appropriation.

31 Sec. 17. RCW 70A.65.260 and 2021 c 316 s 29 are each amended to 32 read as follows:

(1) The climate commitment account is created in the state treasury. The account must receive moneys distributed to the account from the climate investment account created in RCW 70A.65.250. Moneys in the account may be spent only after appropriation. Projects, activities, and programs eligible for funding from the account must be physically located in Washington state and include, but are not limited to, the following:

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(a) Implementing the working families tax rebate in RCW
 82.08.0206;

3 Supplementing the growth management planning (b) and environmental review fund established in RCW 36.70A.490 for the 4 purpose of making grants or loans to local governments for the 5 6 purposes set forth in RCW 43.21C.240, 43.21C.031, 36.70A.500, and 36.70A.600, for costs associated with RCW 36.70A.610, and to cover 7 costs associated with the adoption of optional elements of 8 comprehensive plans consistent with RCW 43.21C.420; 9

10 (c) Programs, activities, or projects that reduce and mitigate 11 impacts from greenhouse gases and copollutants in overburdened 12 communities, including strengthening the air quality monitoring 13 network to measure, track, and better understand air pollution levels 14 and trends and to inform the analysis, monitoring, and pollution 15 reduction measures required in RCW 70A.65.020;

16 (d) Programs, activities, or projects that deploy renewable 17 energy resources, such as solar and wind power, and projects to 18 deploy distributed generation, energy storage, demand-side 19 technologies and strategies, and other grid modernization projects;

(e) Programs, activities, or projects that increase the energy efficiency or reduce greenhouse gas emissions of industrial facilities including, but not limited to, proposals to implement combined heat and power, district energy, or on-site renewables, such as solar and wind power, to upgrade the energy efficiency of existing equipment, to reduce process emissions, and to switch to less emissions intensive fuel sources;

27 (f) Programs, activities, or projects that achieve energy 28 efficiency or emissions reductions in the agricultural sector 29 including:

- 30 (i) Fertilizer management;
- 31 (ii) Soil management;
- 32 (iii) Bioenergy;
- 33 (iv) Biofuels;

34 (v) Grants, rebates, and other financial incentives for 35 agricultural harvesting equipment, heavy-duty trucks, agricultural 36 pump engines, tractors, and other equipment used in agricultural 37 operations;

38 (vi) Grants, loans, or any financial incentives to food 39 processors to implement projects that reduce greenhouse gas 40 emissions;

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1 (vii) Renewable energy projects;

2 (viii) Farmworker housing weatherization programs;

3 (ix) Dairy digester research and development;

4 (x) Alternative manure management; and

5 (xi) Eligible fund uses under RCW 89.08.615;

6 (g) Programs, activities, or projects that increase energy 7 efficiency in new and existing buildings, or that promote low carbon 8 architecture, including use of newly emerging alternative building 9 materials that result in a lower carbon footprint in the built 10 environment over the life cycle of the building and component 11 building materials;

(h) Programs, activities, or projects that promote the
electrification and decarbonization of new and existing buildings,
including residential, commercial, and industrial buildings;

(i) Programs, activities, or projects that improve energy efficiency, including district energy, and investments in market transformation of high efficiency electric appliances and equipment for space and water heating;

(j) Clean energy transition and assistance programs, activities, or projects that assist affected workers or people with lower incomes during the transition to a clean energy economy, or grow and expand clean manufacturing capacity in communities across Washington state including, but not limited to:

(i) Programs, activities, or projects that directly improve
 energy affordability and reduce the energy burden of people with
 lower incomes, as well as the higher transportation fuel burden of
 rural residents, such as bill assistance, energy efficiency, and
 weatherization programs;

(ii) Community renewable energy projects that allow qualifying participants to own or receive the benefits of those projects at reduced or no cost;

32 (iii) Programs, activities, or other worker-support projects for bargaining unit and nonsupervisory fossil fuel workers who are 33 affected by the transition away from fossil fuels to a clean energy 34 economy. Worker support may include, but is not limited to: (A) Full 35 36 wage replacement, health benefits, and pension contributions for 37 every worker within five years of retirement; (B) full wage replacement, health benefits, and pension contributions for every 38 39 worker with at least one year of service for each year of service up 40 to five years of service; (C) wage insurance for up to five years for

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workers reemployed who have more than five years of service; (D) up to two years of retraining costs, including tuition and related costs, based on in-state community and technical college costs; (E) peer counseling services during transition; (F) employment placement services, prioritizing employment in the clean energy sector; and (G) relocation expenses;

7 (iv) Direct investment in workforce development, via technical
8 education, community college, institutions of higher education,
9 apprenticeships, and other programs including, but not limited to:

(A) Initiatives to develop a forest health workforce establishedunder RCW 76.04.521; and

(B) Initiatives to develop new education programs, emergingfields, or jobs pertaining to the clean energy economy;

(v) Transportation, municipal service delivery, and technology investments that increase a community's capacity for clean manufacturing, with an emphasis on communities in greatest need of job creation and economic development and potential for commute reduction;

(k) Programs, activities, or projects that reduce emissions from 19 landfills and waste-to-energy facilities through diversion of organic 20 21 materials, methane capture or conversion strategies, ((or other 22 means)) installation of gas collection devices and gas control systems, monitoring and reporting of methane emissions, or other 23 means, prioritizing funding needed for any activities by local 24 25 governments to comply with chapter 70A.--- RCW (the new chapter 26 created in section 18 of this act);

(1) Carbon dioxide removal projects, programs, and activities;and

(m) Activities to support efforts to mitigate and adapt to the effects of climate change affecting Indian tribes, including capital investments in support of the relocation of Indian tribes located in areas at heightened risk due to anticipated sea level rise, flooding, or other disturbances caused by climate change. The legislature intends to dedicate at least \$50,000,000 per biennium from the account for purposes of this subsection.

36 (2) Moneys in the account may not be used for projects or 37 activities that would violate tribal treaty rights or result in 38 significant long-term damage to critical habitat or ecological 39 functions. Investments from this account must result in long-term environmental benefits and increased resilience to the impacts of
 climate change.

3 <u>NEW SECTION.</u> Sec. 18. Sections 1 through 13 of this act 4 constitute a new chapter in Title 70A RCW.

5 <u>NEW SECTION.</u> Sec. 19. If any provision of this act or its 6 application to any person or circumstance is held invalid, the 7 remainder of the act or the application of the provision to other 8 persons or circumstances is not affected."

**E2SHB 1663** - S COMM AMD By Committee on Ways & Means

## ADOPTED AND ENGROSSED 3/4/2022

9 On page 1, line 1 of the title, after "landfills;" strike the 10 remainder of the title and insert "amending RCW 70A.65.080, 11 70A.15.1010, and 70A.65.260; reenacting and amending RCW 70A.15.3160; 12 adding a new chapter to Title 70A RCW; and prescribing penalties."

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