

D R A F T

SUMMARY

Modifies definition of radioactive waste for purposes of regulation by State Department of Energy. Requires Energy Facility Siting Council to adopt standards and rules necessary to prevent disposal of radioactive waste in Oregon. Provides Director of State Department of Energy and council additional authority for administration and enforcement of laws related to disposal of radioactive waste.

A BILL FOR AN ACT

Relating to radioactive material; creating new provisions; and amending ORS 469.300 and 469.525.

Be It Enacted by the People of the State of Oregon:

SECTION 1. ORS 469.300 is amended to read:

469.300. As used in ORS 469.300 to 469.563, 469.590 to 469.619, 469.930 and 469.992, unless the context requires otherwise:

(1) “Applicant” means any person who makes application for a site certificate in the manner provided in ORS 469.300 to 469.563, 469.590 to 469.619, 469.930 and 469.992.

(2) “Application” means a request for approval of a particular site or sites for the construction and operation of an energy facility or the construction and operation of an additional energy facility upon a site for which a certificate has already been issued, filed in accordance with the procedures established pursuant to ORS 469.300 to 469.563, 469.590 to 469.619, 469.930 and 469.992.

(3) “Associated transmission lines” means new transmission lines constructed to connect an energy facility to the first point of junction of such

1 transmission line or lines with either a power distribution system or an
2 interconnected primary transmission system or both or to the Northwest
3 Power Grid.

4 (4) “Average electric generating capacity” means the peak generating ca-
5 pacity of the facility divided by one of the following factors:

6 (a) For wind facilities, 3.00;

7 (b) For geothermal energy facilities, 1.11; or

8 (c) For all other energy facilities, 1.00.

9 (5) “Combustion turbine power plant” means a thermal power plant con-
10 sisting of one or more fuel-fired combustion turbines and any associated
11 waste heat combined cycle generators.

12 (6) “Construction” means work performed on a site, excluding surveying,
13 exploration or other activities to define or characterize the site, the cost of
14 which exceeds \$250,000.

15 (7) “Council” means the Energy Facility Siting Council established under
16 ORS 469.450.

17 (8) “Department” means the State Department of Energy created under
18 ORS 469.030.

19 (9) “Director” means the Director of the State Department of Energy ap-
20 pointed under ORS 469.040.

21 (10) “Electric utility” means persons, regulated electrical companies,
22 people’s utility districts, joint operating agencies, electric cooperatives,
23 municipalities or any combination thereof, engaged in or authorized to en-
24 gage in the business of generating, supplying, transmitting or distributing
25 electric energy.

26 (11)(a) “Energy facility” means any of the following:

27 (A) An electric power generating plant with a nominal electric generating
28 capacity of 25 megawatts or more, including but not limited to:

29 (i) Thermal power;

30 (ii) Combustion turbine power plant; or

31 (iii) Solar thermal power plant.

1 (B) A nuclear installation as defined in this section.

2 (C) A high voltage transmission line of more than 10 miles in length with
3 a capacity of 230,000 volts or more to be constructed in more than one city
4 or county in this state, but excluding:

5 (i) Lines proposed for construction entirely within 500 feet of an existing
6 corridor occupied by high voltage transmission lines with a capacity of
7 230,000 volts or more;

8 (ii) Lines of 57,000 volts or more that are rebuilt and upgraded to 230,000
9 volts along the same right of way; and

10 (iii) Associated transmission lines.

11 (D) A solar photovoltaic power generation facility using more than:

12 (i) 160 acres located on high-value farmland as defined in ORS 195.300;

13 (ii) 1,280 acres located on land that is predominantly cultivated or that,
14 if not cultivated, is predominantly composed of soils that are in capability
15 classes I to IV, as specified by the National Cooperative Soil Survey operated
16 by the Natural Resources Conservation Service of the United States De-
17 partment of Agriculture; or

18 (iii) 1,920 acres located on any other land.

19 (E) A pipeline that is:

20 (i) At least six inches in diameter, and five or more miles in length, used
21 for the transportation of crude petroleum or a derivative thereof, liquefied
22 natural gas, a geothermal energy form in a liquid state or other fossil energy
23 resource, excluding a pipeline conveying natural or synthetic gas;

24 (ii) At least 16 inches in diameter, and five or more miles in length, used
25 for the transportation of natural or synthetic gas, but excluding:

26 (I) A pipeline proposed for construction of which less than five miles of
27 the pipeline is more than 50 feet from a public road, as defined in ORS
28 368.001; or

29 (II) A parallel or upgraded pipeline up to 24 inches in diameter that is
30 constructed within the same right of way as an existing 16-inch or larger
31 pipeline that has a site certificate, if all studies and necessary mitigation

1 conducted for the existing site certificate meet or are updated to meet cur-
2 rent site certificate standards; or

3 (iii) At least 16 inches in diameter and five or more miles in length used
4 to carry a geothermal energy form in a gaseous state but excluding a pipeline
5 used to distribute heat within a geothermal heating district established un-
6 der ORS chapter 523.

7 (F) A synthetic fuel plant which converts a natural resource including,
8 but not limited to, coal or oil to a gas, liquid or solid product intended to
9 be used as a fuel and capable of being burned to produce the equivalent of
10 two billion Btu of heat a day.

11 (G) A plant which converts biomass to a gas, liquid or solid product, or
12 combination of such products, intended to be used as a fuel and if any one
13 of such products is capable of being burned to produce the equivalent of six
14 billion Btu of heat a day.

15 (H) A storage facility for liquefied natural gas constructed after Septem-
16 ber 29, 1991, that is designed to hold at least 70,000 gallons.

17 (I) A surface facility related to an underground gas storage reservoir that,
18 at design injection or withdrawal rates, will receive or deliver more than 50
19 million cubic feet of natural or synthetic gas per day, or require more than
20 4,000 horsepower of natural gas compression to operate, but excluding:

21 (i) The underground storage reservoir;

22 (ii) The injection, withdrawal or monitoring wells and individual wellhead
23 equipment; and

24 (iii) An underground gas storage reservoir into which gas is injected
25 solely for testing or reservoir maintenance purposes or to facilitate the sec-
26 ondary recovery of oil or other hydrocarbons.

27 (J) An electric power generating plant with an average electric generat-
28 ing capacity of 50 megawatts or more if the power is produced from
29 geothermal or wind energy at a single energy facility or within a single en-
30 ergy generation area.

31 (b) "Energy facility" does not include a hydroelectric facility or an energy

1 facility under paragraph (a)(A)(iii) or (D) of this subsection that is estab-
2 lished on the site of a decommissioned United States Air Force facility that
3 has adequate transmission capacity to serve the energy facility.

4 (12) “Energy generation area” means an area within which the effects of
5 two or more small generating plants may accumulate so the small generating
6 plants have effects of a magnitude similar to a single generating plant of 35
7 megawatts average electric generating capacity or more. An “energy gener-
8 ation area” for facilities using a geothermal resource and covered by a unit
9 agreement, as provided in ORS 522.405 to 522.545 or by federal law, shall be
10 defined in that unit agreement. If no such unit agreement exists, an energy
11 generation area for facilities using a geothermal resource shall be the area
12 that is within two miles, measured from the electrical generating equipment
13 of the facility, of an existing or proposed geothermal electric power gener-
14 ating plant, not including the site of any other such plant not owned or
15 controlled by the same person.

16 (13) “Extraordinary nuclear occurrence” means any event causing a dis-
17 charge or dispersal of source material, special nuclear material or by-product
18 material as those terms are defined in ORS 453.605, from its intended place
19 of confinement off-site, or causing radiation levels off-site, that the United
20 States Nuclear Regulatory Commission or its successor determines to be
21 substantial and to have resulted in or to be likely to result in substantial
22 damages to persons or property off-site.

23 (14) “Facility” means an energy facility together with any related or
24 supporting facilities.

25 (15) “Geothermal reservoir” means an aquifer or aquifers containing a
26 common geothermal fluid.

27 (16) “Local government” means a city or county.

28 (17) “Nominal electric generating capacity” means the maximum net
29 electric power output of an energy facility based on the average temperature,
30 barometric pressure and relative humidity at the site during the times of the
31 year when the facility is intended to operate.

1 (18) “Nuclear incident” means any occurrence, including an extraordinary
2 nuclear occurrence, that results in bodily injury, sickness, disease, death,
3 loss of or damage to property or loss of use of property due to the radioac-
4 tive, toxic, explosive or other hazardous properties of source material, special
5 nuclear material or by-product material as those terms are defined in ORS
6 453.605.

7 (19) “Nuclear installation” means any power reactor, nuclear fuel fabri-
8 cation plant, nuclear fuel reprocessing plant, waste disposal facility for ra-
9 dioactive waste, and any facility handling that quantity of fissionable
10 materials sufficient to form a critical mass. “Nuclear installation” does not
11 include any such facilities that are part of a thermal power plant.

12 (20) “Nuclear power plant” means an electrical or any other facility using
13 nuclear energy with a nominal electric generating capacity of 25 megawatts
14 or more, for generation and distribution of electricity, and associated trans-
15 mission lines.

16 (21) “Person” means an individual, partnership, joint venture, private or
17 public corporation, association, firm, public service company, political sub-
18 division, municipal corporation, government agency, people’s utility district,
19 or any other entity, public or private, however organized.

20 (22) “Project order” means the order, including any amendments, issued
21 by the State Department of Energy under ORS 469.330.

22 (23)(a) “Radioactive waste” [*means*] **includes** all material which is dis-
23 carded, unwanted or has no present lawful economic use, and contains mined
24 or refined naturally occurring isotopes, accelerator produced isotopes and
25 by-product material, source material or special nuclear material as those
26 terms are defined in ORS 453.605. [*The term does not include those radioactive*
27 *materials identified in OAR 345-50-020, 345-50-025 and 345-50-035, adopted by*
28 *the council on December 12, 1978, and revised periodically for the purpose of*
29 *adding additional isotopes which are not referred to in OAR 345-50 as pre-*
30 *senting no significant danger to the public health and safety.*]

31 (b) [*Notwithstanding paragraph (a) of this subsection,*] “Radioactive

1 waste” does not include:

2 **(A) Materials identified by the council by rule as presenting no**
3 **significant danger to the public health and safety.**

4 **(B) Uranium mine overburden or uranium mill tailings, mill wastes or**
5 **mill by-product materials as those terms are defined in Title 42, United**
6 **States Code, section 2014, on June 25, 1979.**

7 (24) “Related or supporting facilities” means any structure, proposed by
8 the applicant, to be constructed or substantially modified in connection with
9 the construction of an energy facility, including associated transmission
10 lines, reservoirs, storage facilities, intake structures, road and rail access,
11 pipelines, barge basins, office or public buildings, and commercial and in-
12 dustrial structures. “Related or supporting facilities” does not include
13 geothermal or underground gas storage reservoirs, production, injection or
14 monitoring wells or wellhead equipment or pumps.

15 (25) “Site” means any proposed location of an energy facility and related
16 or supporting facilities.

17 (26) “Site certificate” means the binding agreement between the State of
18 Oregon and the applicant, authorizing the applicant to construct and operate
19 a facility on an approved site, incorporating all conditions imposed by the
20 council on the applicant.

21 (27) “Thermal power plant” means an electrical facility using any source
22 of thermal energy with a nominal electric generating capacity of 25 mega-
23 watts or more, for generation and distribution of electricity, and associated
24 transmission lines, including but not limited to a nuclear-fueled,
25 geothermal-fueled or fossil-fueled power plant, but not including a portable
26 power plant the principal use of which is to supply power in emergencies.
27 “Thermal power plant” includes a nuclear-fueled thermal power plant that
28 has ceased to operate.

29 (28) “Transportation” means the transport within the borders of the State
30 of Oregon of radioactive material destined for or derived from any location.

31 (29) “Underground gas storage reservoir” means any subsurface sand,

1 strata, formation, aquifer, cavern or void, whether natural or artificially
2 created, suitable for the injection, storage and withdrawal of natural gas or
3 other gaseous substances. “Underground gas storage reservoir” includes a
4 pool as defined in ORS 520.005.

5 (30) “Utility” includes:

6 (a) A person, a regulated electrical company, a people’s utility district, a
7 joint operating agency, an electric cooperative, municipality or any combi-
8 nation thereof, engaged in or authorized to engage in the business of gener-
9 ating, transmitting or distributing electric energy;

10 (b) A person or public agency generating electric energy from an energy
11 facility for its own consumption; and

12 (c) A person engaged in this state in the transmission or distribution of
13 natural or synthetic gas.

14 (31) “Waste disposal facility” means a geographical site in or upon which
15 radioactive waste is held or placed but does not include a site at which ra-
16 dioactive waste used or generated pursuant to a license granted under ORS
17 453.635 is stored temporarily, a site of a thermal power plant used for the
18 temporary storage of radioactive waste from that plant for which a site cer-
19 tificate has been issued pursuant to this chapter or a site used for temporary
20 storage of radioactive waste from a reactor operated by a college, university
21 or graduate center for research purposes and not connected to the Northwest
22 Power Grid. As used in this subsection, “temporary storage” includes stor-
23 age of radioactive waste on the site of a nuclear-fueled thermal power plant
24 for which a site certificate has been issued until a permanent storage site
25 is available by the federal government.

26 **SECTION 2.** ORS 469.525 is amended to read:

27 469.525. (1) Notwithstanding any other provision of this chapter, **no ra-**
28 **dioactive waste shall be disposed of within this state, no person may**
29 **arrange for disposal of radioactive waste within this state, no person**
30 **may transport radioactive waste for disposal in this state and no waste**
31 disposal facility for any radioactive waste shall be established, operated or

1 licensed within this state, except as follows:

2 [(1)] (a) Wastes generated before June 1, 1981, through industrial or
3 manufacturing processes which contain only naturally occurring radioactive
4 isotopes which are disposed of at sites approved by the Energy Facility Sit-
5 ing Council in accordance with ORS 469.375.

6 [(2)] (b) Medical, industrial and research laboratory wastes contained in
7 small, sealed, discrete containers in which the radioactive material is dis-
8 solved or dispersed in an organic solvent or biological fluid for the purpose
9 of liquid scintillation counting and experimental animal carcasses shall be
10 disposed of or treated at a hazardous waste disposal facility licensed by the
11 Department of Environmental Quality and in a manner consistent with rules
12 adopted by the Department of Environmental Quality after consultation with
13 and approval by the Oregon Health Authority.

14 [(3)] (c) Maintenance of radioactive coal ash at the site of a thermal
15 power plant for which a site certificate has been issued pursuant to this
16 chapter shall not constitute operation of a waste disposal facility so long as
17 such coal ash is maintained in accordance with the terms of the site certifi-
18 cate as amended from time to time as necessary to protect the public health
19 and safety.

20 **(2) The Energy Facility Siting Council shall, in accordance with the**
21 **applicable provisions of ORS chapter 183, adopt standards and rules**
22 **as necessary to prevent the disposal of radioactive waste within this**
23 **state.**

24 **(3) For purposes of this section, disposal does not include the tem-**
25 **porary storage of:**

26 **(a) Radioactive waste used or generated pursuant to a license**
27 **granted under ORS 453.635;**

28 **(b) Radioactive waste from a nuclear-fueled thermal power plant for**
29 **which a site certificate has been issued pursuant to this chapter, on**
30 **the site of that plant, until a permanent storage site is made available**
31 **by the federal government; or**

1 (c) Radioactive waste from a reactor for which a site certificate has
2 been issued pursuant to this chapter that is operated by a college,
3 university or graduate center for research purposes and is not con-
4 nected to the Northwest Power Grid.

5 **SECTION 3.** Section 4 of this 2021 Act is added to and made a part
6 of ORS 469.300 to 469.619.

7 **SECTION 4.** (1) The Director of the State Department of Energy or
8 the Energy Facility Siting Council may obtain from any persons all
9 records or information needed to carry out and enforce ORS 469.525,
10 469.550 (3) and 469.607. In obtaining records or information under this
11 subsection, the director or the council, with the written consent of the
12 Governor, may subpoena witnesses, material and relevant books, pa-
13 pers, accounts, records and memoranda, may administer oaths and
14 may cause the depositions of persons residing within or without
15 Oregon to be taken in the manner prescribed for depositions in civil
16 actions in circuit courts.

17 (2) The director or the council may require a person to take actions
18 as necessary to correct a past or ongoing violation of ORS 469.525,
19 469.550 (3) or 469.607 or to ensure future compliance with ORS 469.525,
20 469.550 (3) or 469.607 or rules adopted for the purposes of carrying out
21 ORS 469.525, 469.550 (3) or 469.607. The director or the council shall
22 coordinate with the Department of Environmental Quality prior to
23 ordering any actions under this subsection.

24 (3)(a) At any reasonable time, an employee of or a duly authorized
25 and identified representative of the State Department of Energy may
26 enter upon, inspect and obtain samples from any public or private
27 property, premises or place for the purpose of determining compliance
28 with ORS 469.525, 469.550 (3) or 469.607 or rules adopted for the purposes
29 of carrying out ORS 469.525, 469.550 (3) or 469.607.

30 (b) If a person refuses to comply with this subsection, the depart-
31 ment or a duly authorized and identified representative of the depart-

1 **ment may obtain a warrant or subpoena to allow the entry, inspection**
2 **or sampling authorized by this subsection.**

3 **(4)(a) A person found by the director or the council to be in vio-**
4 **lation of ORS 469.525 shall reimburse the department for all necessary,**
5 **just and reasonable costs incurred by the department, excluding ad-**
6 **ministrative costs, in the investigation of the violation. Department**
7 **costs may include:**

8 **(A) Legal expenses;**

9 **(B) Expenses incurred in obtaining and inspecting records, infor-**
10 **mation or samples under subsections (1) to (3) of this section; and**

11 **(C) Expenses incurred in issuing any final order or notice of vio-**
12 **lation.**

13 **(b) Upon request, the department shall provide a detailed justifica-**
14 **tion for all costs charged to a person under this subsection.**

15 **(c) If a dispute arises regarding the necessity or reasonableness of**
16 **expenses charged to a person under this subsection, the person may**
17 **seek judicial review of the amount of expenses charged in circuit court**
18 **as provided in ORS 183.480, 183.484, 183.490 and 183.500. If the person**
19 **establishes that any of the charges are unnecessary or unreasonable,**
20 **the department shall refund the amount found to be unnecessary or**
21 **unreasonable. The person may not waive the right to judicial review**
22 **by paying the portion of the fee or expense in dispute.**

23