

SSB 5113 - H COMM AMD

By Committee on Technology & Economic Development

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

3 "NEW SECTION. **Sec. 1.** (1) The legislature finds that the
4 promotion and advancement of new technologies, particularly in the
5 clean technology sector, is an important aspect of Washington's
6 economic development. The commercialization and deployment of small
7 modular reactor technologies has been identified by the federal
8 government as a means to meet clean energy targets and as a key
9 element in its nuclear energy research and development roadmap.
10 Washington has the potential to become a leader in the advancement of
11 small modular reactor technologies by leveraging its experience as an
12 incubator of new and innovative technologies, its world class
13 universities, and its highly skilled workforce to attract
14 manufacturers of small modular reactors. The legislature finds that
15 advancing the manufacturing of small modular reactors may help the
16 state meet future energy supply, environmental, and energy security
17 needs.

18 (2) The legislature finds that because Washington's students are
19 the foundation for providing the diverse and highly skilled workforce
20 for the clean technology sector, including the manufacturing of small
21 modular reactors, it is in the public interest to provide students
22 the opportunity to strengthen their knowledge of the fundamentals of
23 the energy sciences, including physics, chemistry, mathematics, and
24 related disciplines.

25 (3) The legislature also finds that while all powers, duties, and
26 functions of the state energy office relating to implementing energy
27 education were transferred to Washington State University in 1996,
28 the goals of advancing the manufacturing of small modular reactors in
29 the state and providing students with an education in the energy
30 sciences are mutually reinforcing. Therefore, the legislature intends
31 that the department of commerce shall provide support to the office
32 of the superintendent of public instruction for the purpose of
33 developing a clean energy education program as it relates to training

1 and education on clean technologies, including manufacturing of small
2 modular reactors.

3 (4) The legislature finds that:

4 (a) Nothing in this act shall prevent the energy facility site
5 evaluation council from exercising its authority under chapter 80.50
6 RCW to receive, review, and approve an application for the siting and
7 certification of any nuclear power facility where the primary purpose
8 is to produce and sell electricity; and

9 (b) Nothing in this act shall grant authority to the department
10 of commerce for the siting of any nuclear power facility where the
11 primary purpose is to produce and sell electricity.

12 **Sec. 2.** RCW 43.21F.025 and 2010 c 271 s 402 are each amended to
13 read as follows:

14 (1) "Assistant director" means the assistant director of the
15 department of commerce responsible for energy policy activities;

16 (2) "Department" means the department of commerce;

17 (3) "Director" means the director of the department of commerce;

18 (4) "Distributor" means any person, private corporation,
19 partnership, individual proprietorship, utility, including investor-
20 owned utilities, municipal utility, public utility district, joint
21 operating agency, or cooperative, which engages in or is authorized
22 to engage in the activity of generating, transmitting, or
23 distributing energy in this state;

24 (5) "Energy" means petroleum or other liquid fuels; natural or
25 synthetic fuel gas; solid carbonaceous fuels; fissionable nuclear
26 material; electricity; solar radiation; geothermal resources;
27 hydropower; organic waste products; wind; tidal activity; any other
28 substance or process used to produce heat, light, or motion; or the
29 savings from nongeneration technologies, including conservation or
30 improved efficiency in the usage of any of the sources described in
31 this subsection;

32 (6) "Person" means an individual, partnership, joint venture,
33 private or public corporation, association, firm, public service
34 company, political subdivision, municipal corporation, government
35 agency, public utility district, joint operating agency, or any other
36 entity, public or private, however organized; (~~and~~)

37 (7) "Small modular reactor" means a scalable nuclear power plant
38 using reactors that each have a gross power output of no greater than
39 three hundred megawatts electric, and where each reactor is designed

1 for factory manufacturing and ease of transport, such as by truck,
2 rail, or barge; and

3 (8) "State energy strategy" means the document developed and
4 updated by the department as allowed in RCW 43.21F.090.

5 **Sec. 3.** RCW 43.21F.045 and 1996 c 186 s 103 are each amended to
6 read as follows:

7 (1) The department shall supervise and administer energy-related
8 activities as specified in RCW 43.330.904 and shall advise the
9 governor and the legislature with respect to energy matters affecting
10 the state.

11 (2) In addition to other powers and duties granted to the
12 department, the department shall have the following powers and
13 duties:

14 (a) Prepare and update contingency plans for implementation in
15 the event of energy shortages or emergencies. The plans shall conform
16 to chapter 43.21G RCW and shall include procedures for determining
17 when these shortages or emergencies exist, the state officers and
18 agencies to participate in the determination, and actions to be taken
19 by various agencies and officers of state government in order to
20 reduce hardship and maintain the general welfare during these
21 emergencies. The department shall coordinate the activities
22 undertaken pursuant to this subsection with other persons. The
23 components of plans that require legislation for their implementation
24 shall be presented to the legislature in the form of proposed
25 legislation at the earliest practicable date. The department shall
26 report to the governor and the legislature on probable, imminent, and
27 existing energy shortages, and shall administer energy allocation and
28 curtailment programs in accordance with chapter 43.21G RCW.

29 (b) Establish and maintain a central repository in state
30 government for collection of existing data on energy resources,
31 including:

32 (i) Supply, demand, costs, utilization technology, projections,
33 and forecasts;

34 (ii) Comparative costs of alternative energy sources, uses, and
35 applications; and

36 (iii) Inventory data on energy research projects in the state
37 conducted under public and/or private auspices, and the results
38 thereof.

1 (c) Coordinate federal energy programs appropriate for state-
2 level implementation, carry out such energy programs as are assigned
3 to it by the governor or the legislature, and monitor federally
4 funded local energy programs as required by federal or state
5 regulations.

6 (d) Develop energy policy recommendations for consideration by
7 the governor and the legislature.

8 (e) Provide assistance, space, and other support as may be
9 necessary for the activities of the state's two representatives to
10 the Pacific northwest electric power and conservation planning
11 council. To the extent consistent with federal law, the director
12 shall request that Washington's councilmembers request the
13 administrator of the Bonneville power administration to reimburse the
14 state for the expenses associated with the support as provided in the
15 Pacific Northwest Electric Power Planning and Conservation Act (P.L.
16 96-501).

17 (f) Cooperate with state agencies, other governmental units, and
18 private interests in the prioritization and implementation of the
19 state energy strategy elements and on other energy matters.

20 (g) Serve as the official state agency responsible for
21 coordinating implementation of the state energy strategy.

22 (h) No later than December 1, 1982, and by December 1st of each
23 even-numbered year thereafter, prepare and transmit to the governor
24 and the appropriate committees of the legislature a report on the
25 implementation of the state energy strategy and other important
26 energy issues, as appropriate.

27 (i) Provide support for increasing cost-effective energy
28 conservation, including assisting in the removal of impediments to
29 timely implementation.

30 (j) Provide support for the development of cost-effective energy
31 resources including assisting in the removal of impediments to timely
32 construction.

33 (k) Coordinate and advance the manufacturing of small modular
34 reactors in the state to meet future energy supply, environmental,
35 and energy security needs, taking into consideration how disposal of
36 nuclear waste may impact Washington state.

37 (l) Adopt rules, under chapter 34.05 RCW, necessary to carry out
38 the powers and duties enumerated in this chapter.

1 (~~(l)~~) (m) Provide administrative assistance, space, and other
2 support as may be necessary for the activities of the energy facility
3 site evaluation council, as provided for in RCW 80.50.030.

4 (~~(m)~~) (n) Appoint staff as may be needed to administer energy
5 policy functions and manage energy facility site evaluation council
6 activities. These employees are exempt from the provisions of chapter
7 41.06 RCW.

8 (3) To the extent the powers and duties set out under this
9 section relate to energy education, applied research, and technology
10 transfer programs they are transferred to Washington State
11 University.

12 (4) To the extent the powers and duties set out under this
13 section relate to energy efficiency in public buildings they are
14 transferred to the department of (~~general administration~~)
15 enterprise services.

16 NEW SECTION. Sec. 4. (1) By December 1, 2015, and in compliance
17 with RCW 43.01.036, the department of commerce and the office of the
18 superintendent of public instruction must jointly submit a report to
19 the appropriate committees of the legislature with recommendations
20 for the establishment of a clean energy education program.

21 (2) The clean energy education program must include:

22 (a) Grants for clean energy ambassadors to be used to create a
23 pool of persons who can introduce students to clean energy science
24 and technology, including solar and wind power, small modular
25 reactors, and opportunities for nuclear waste cleanup technology
26 careers, through classroom visits; and

27 (b) Grants for certified science teachers to be used to assist
28 teachers in pursuing professional development opportunities related
29 to clean energy science, to the teachers' areas of expertise, and to
30 broadening the teachers' exposure to applied learning curricula.

31 (3) The report must include:

32 (a) Reference to and consideration of:

33 (i) The 2013 state science learning standards adopted by the
34 office of the superintendent of public instruction; and

35 (ii) The energy literacy framework developed by the United States
36 department of energy;

37 (b) An evaluation of the potential to establish a public-private
38 partnership modeled after the financial education public-private
39 partnership established under RCW 28A.300.450;

1 (c) A list of suggested qualifications to be used to identify or
2 approve clean energy ambassadors, developed in consultation with
3 industry leaders in the clean technology sectors and teachers; and

4 (d) Recommendations on professional development for educators
5 related to clean energy, energy supply, environmental, and security
6 needs, including training related to advancing the manufacturing of
7 small modular reactors, solar and wind power, nuclear waste cleanup,
8 and using applied learning curricula."

9 Correct the title.

EFFECT: (1) Adds language establishing a legislative finding specifying that because Washington's students are the foundation for providing the diverse and highly skilled workforce needed for advancing the manufacturing of small modular reactors and other clean technologies, it is in the public interest to provide students the opportunity to strengthen their knowledge of the energy sciences.

(2) Adds intent language directing the Department of Commerce to provide support to the Office of the Superintendent of Public Instruction for the purpose of developing a clean energy education program as it relates to training and education on clean technologies, including manufacturing of small modular reactors.

(3) Adds language establishing a legislative finding that nothing prevents the Energy Facility Site Evaluation Council from exercising its authority to receive, review, and approve an application for the siting and certification of any nuclear power facility where the primary purpose is to produce and sell electricity.

(4) Removes reference to the coordination and advancement of the siting of small modular reactors as a power or duty of the Department of Commerce.

(5) Requires the Department of Commerce and the Office of the Superintendent of Public Instruction to jointly submit a report to the appropriate committees of the Legislature by December 1, 2015, with recommendations for the establishment of a clean energy education program.

(6) Requires the Department of Commerce to take into consideration how disposal of nuclear waste may impact Washington when it exercises the authority to coordinate and advance the manufacturing of small modular reactors. Adds solar and wind power and nuclear waste cleanup technology careers to the list of subjects to be introduced to students by clean energy ambassadors. Adds solar and wind power and nuclear waste cleanup to the list of recommendations on professional development for educators to be included in a report to the legislature.

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