

SSB 5113 - S AMD 476  
By Senator Brown

ADOPTED 6/30/2015

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

1 developing a clean energy education program as it relates to training  
2 and education on clean technologies, including manufacturing of small  
3 modular reactors.

4 (4) The legislature finds that:

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

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

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

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

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

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

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

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

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

38 (7) "Small modular reactor" means a scalable nuclear power plant  
39 using reactors that each have a gross power output of no greater than

1 three hundred megawatts electric, and where each reactor is designed  
2 for factory manufacturing and ease of transport, such as by truck,  
3 rail, or barge; and

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

6 **Sec. 3.** RCW 43.21F.045 and 2015 c 225 s 73 are each amended to  
7 read as follows:

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

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

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

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

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

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

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

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

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

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

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

30       (3) The report must include:

31       (a) Reference to and consideration of:

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

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

36       (b) An evaluation of the potential to establish a public-private  
37 partnership modeled after the financial education public-private  
38 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."

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9 On page 1, line 1 of the title, after "Relating to" strike the  
10 remainder of the title and insert "the coordination and advancement  
11 of clean energy to meet future energy supply, environmental, and  
12 energy security needs; amending RCW 43.21F.025 and 43.21F.045; and  
13 creating new sections."

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.

(7) Corrects the title.

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