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**SUBSTITUTE HOUSE BILL 1422**

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**State of Washington**

**62nd Legislature**

**2011 Regular Session**

**By** House Technology, Energy & Communications (originally sponsored by Representatives Stanford, Orcutt, Chandler, Warnick, Van De Wege, Green, Smith, Jacks, Blake, Sullivan, McCoy, Kretz, Tharinger, Ryu, Short, Sells, Lytton, Lias, Frockt, Moscoso, Billig, Probst, Rolfes, Dunshee, Maxwell, Upthegrove, and Kenney; by request of Commissioner of Public Lands)

READ FIRST TIME 02/11/11.

1       AN ACT Relating to authorizing the department of natural resources  
2 to conduct a forest biomass to aviation fuel demonstration project to  
3 facilitate Washington leading the nation in aviation biofuel  
4 production; and creating new sections.

5 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

6       NEW SECTION. **Sec. 1.** The legislature finds that forest biomass is  
7 an abundant and renewable by-product of Washington's forest land  
8 management. Forest biomass can be utilized to generate clean renewable  
9 aviation fuels.

10       In some Washington forests, residual forest biomass is burned on  
11 site or left to decompose. The lack of forest products markets in some  
12 areas means that removal of standing forest biomass for forest health  
13 and wildfire risk reduction treatments must occur at substantial cost.  
14 Utilizing forest biomass to generate clean renewable aviation fuels can  
15 reduce greenhouse gases emitted from burning forest biomass in open  
16 slash piles.

17       Research recently conducted in the Pacific Northwest found that  
18 emissions from regulated facilities utilizing forest residuals as their

1 feedstock emitted fewer greenhouse gases into the atmosphere than  
2 burning the feedstock in an open slash burn or, in some cases, fewer  
3 emissions than leaving the biomass to biodegrade.

4 The legislature finds that making use of the state's forest biomass  
5 resources for aviation fuel production may increase the value of  
6 Washington's commercial forest lands, generate new revenues from state  
7 lands, protect forest land of all ownerships from severe forest health  
8 problems and uncharacteristic wildfire, stimulate Washington's economy,  
9 create green jobs, and reduce Washington's dependence on foreign oil.

10 The legislature finds that opportunities exist to create  
11 living-wage green jobs through the development of an aviation biofuel  
12 sector in the state. Exploring opportunities for the forest products  
13 sector to collaborate with the states existing aviation sector to meet  
14 renewable energy goals will also help maintain existing jobs in both of  
15 these industries.

16 The legislature finds that work is already underway in exploring  
17 the potential of linking Washington's strong past in both timber and  
18 aeronautics with our future in renewable energy. The department of  
19 natural resource's forest biomass initiative and the sustainable  
20 aviation fuel northwest initiative have set the stage to enable  
21 Washington to emerge as a national leader in greening our country's and  
22 our world's aviation fuel.

23 It is the intent of the legislature to support existing efforts  
24 through the development and implementation of a forest biomass to  
25 aviation fuel demonstration biofacility project and strategy for  
26 initiating a broad forest biomass to aviation fuel sector in  
27 Washington.

28 NEW SECTION. **Sec. 2.** The department of natural resources may  
29 develop and implement a forest biomass to aviation fuel demonstration  
30 project.

31 (1) The demonstration project must be designed to:

32 (a) Demonstrate opportunities for state lands to generate trust  
33 income through the development of aviation biofuel production capacity;

34 (b) Create green jobs;

35 (c) Avoid interfering with the current supply area for forest  
36 biomass collection surrounding an existing fixed location biomass  
37 energy production site and forest products production sites;

1 (d) Be consistent with report findings from the University of  
2 Washington and the department of natural resources concerning  
3 operationally and ecologically sustainable feedstocks and production  
4 processes;

5 (e) Comply with the state's existing energy efficiency goals. In  
6 selecting a site for the demonstration project, preference must be  
7 given to facilities that are already highly energy efficient or that  
8 will gain significant efficiency through the installation of a  
9 biofacility utilizing waste heat and energy.

10 (2) To develop and implement the forest biomass to aviation fuel  
11 demonstration project, the department of natural resources may form  
12 forest biomass aviation fuel partnerships. These partnerships are  
13 encouraged to:

14 (a) Be public-private partnerships focused on convening the  
15 entities necessary to grow, harvest, process, transport, and utilize  
16 forest biomass to generate sustainable aviation fuel;

17 (b) Employ emerging technologies that emphasize efficient feedstock  
18 utilization (most energy/dry ton of product);

19 (c) Include representatives from, but not limited to:  
20 Entrepreneurs or organizations developing and operating emerging forest  
21 biomass processing technologies; contractors capable of providing the  
22 local labor needed to collect, process, and transport feedstocks;  
23 tribes, federal land management agencies, county, city, and other local  
24 governments and other state agencies; workforce development  
25 organizations; accredited research institutions; aviation companies;  
26 ports; existing biofuel production facilities; oil refining companies  
27 located in Washington; not-for-profit conservation organizations;  
28 private forest landowners; and forest product manufacturers.

29 NEW SECTION. **Sec. 3.** By December 2012, the department of natural  
30 resources in collaboration with the department of commerce and research  
31 institutions, through the convening and conduct of an expert panel  
32 comprised of, but not limited to, representatives from state agencies,  
33 local governments, natural resource industries, biofuel producers, oil  
34 refiners, utilities, infrastructure providers, transportation fuel  
35 markets, and environmental groups, shall provide the legislature with  
36 a report detailing a strategy for developing a broad forest biomass to  
37 aviation biofuel sector in the state. The report must:

- 1 (1) Integrate forest biomass supply data being collected and report  
2 findings by the University of Washington in collaboration with the  
3 department of natural resources to be used to estimate potential forest  
4 biomass supply and potential aviation production volumes;
- 5 (2) Include a fully vetted supply chain strategy for forest biomass  
6 to aviation fuel;
- 7 (3) Identify existing and potential sites where bioprocessing could  
8 be colocated, such as operating or closed pulp and paper installations  
9 and other existing industrial sites;
- 10 (4) Identify state and other public resources that can be used to  
11 accelerate the supply chain development including, but not limited to:  
12 Education and work-force training needs; transportation and utility  
13 infrastructure; and biofuels and bioproduct purchase contracts by  
14 public agencies;
- 15 (5) Identify opportunities to collaborate with other states and  
16 federal agencies;
- 17 (6) Address and plan to ensure sustainability, leveraging existing  
18 safeguards such as the state's forest practices rules;
- 19 (7) Include estimates on the number of jobs retained and created  
20 through the development of a forest biomass to aviation fuel sector;
- 21 (8) Identify funding opportunities available for a forest biomass  
22 to aviation fuel demonstration project;
- 23 (9) Identify any opportunities for legislative action that could  
24 further facilitate a biomass to aviation fuel industry;
- 25 (10) Identify and explore linkages with the president's biofuels  
26 interagency working group. This must include:
- 27 (a) A clear description of a full supply chain opportunity in  
28 Washington; and
- 29 (b) A request for federal funding to support this effort;
- 30 (11) Provide an update on progress toward implementation of a  
31 demonstration biofacility in the state pursuant to section 2 of this  
32 act.

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