

SENATE BILL REPORT

SB 5709

As Reported by Senate Committee On:
Energy, Environment & Telecommunications, February 14, 2013
Ways & Means, March 1, 2013

Title: An act relating to a pilot program to demonstrate the feasibility of using densified biomass to heat public schools.

Brief Description: Concerning a pilot program to demonstrate the feasibility of using densified biomass to heat public schools.

Sponsors: Senators Smith, Ericksen, Sheldon, Holmquist Newbry, Dammeier, Brown and Roach.

Brief History:

Committee Activity: Energy, Environment & Telecommunications: 2/14/13 [DP-WM].
Ways & Means: 2/26/13, 3/01/13 [DPS].

SENATE COMMITTEE ON ENERGY, ENVIRONMENT & TELECOMMUNICATIONS

Majority Report: Do pass and be referred to Committee on Ways & Means.

Signed by Senators Ericksen, Chair; Sheldon, Vice Chair; Ranker, Ranking Member; Billig, Brown, Chase, Cleveland and Honeyford.

Staff: William Bridges (786-7416)

SENATE COMMITTEE ON WAYS & MEANS

Majority Report: That Substitute Senate Bill No. 5709 be substituted therefor, and the substitute bill do pass.

Signed by Senators Hill, Chair; Baumgartner, Vice Chair; Honeyford, Capital Budget Chair; Hargrove, Ranking Member; Nelson, Assistant Ranking Member; Bailey, Becker, Braun, Conway, Dammeier, Fraser, Hasegawa, Hatfield, Hewitt, Keiser, Kohl-Welles, Murray, Padden, Parlette, Ranker, Rivers, Schoesler and Tom.

Staff: Maria Hovde (786-7710)

Background: Densified Biomass. According to the Washington State University (WSU) Energy Program, densified biomass is a solid biofuel pellet made of compressed sawdust and

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chipped wood that has a consistent quality, low moisture content, high energy density, and homogenous size and shape. Densification increases the energy density of biomass by approximately 10 to 15 percent, so more heat is produced per unit of pellets burned than if the same amount of raw wood was burned.

WSU Report. The 2012 supplemental operating budget required WSU to study densified biomass as a renewable fuel for heating homes, businesses, and other facilities in the state. WSU issued an early report in December 2012 that assessed the opportunities and challenges of developing a densified biomass industry in Washington. WSU expects to issue a more comprehensive report in early 2013.

The December 2012 report cites several opportunities for densified biomass fuel, such as environmental advantages over traditional fossil fuels, restoring healthy forests after pine beetle destruction, reducing the volumes of landfills, providing a less expensive alternative to heating homes in remote areas, and providing a valuable export commodity. The report also cites several challenges facing densified biomass, such as reduced fossil fuel prices, enhanced energy efficiency technologies, competition for biomass feedstock, and price volatility in the wood pellet marketplace.

Biomass Heating in Public Schools. In 2009, the Quillayute Valley School District received a \$1 million grant from the Energy Freedom Fund to purchase and install a wood-chip fired boiler for steam heat at Forks Middle and High School. The facility became operational in October 2010.

Summary of Bill (Recommended Substitute): Creating a Densified Biomass Pilot Program and Requiring a Report. Subject to receiving federal and private funds for this purpose, by December 1, 2013, WSU must develop and initiate a pilot program to demonstrate the feasibility of using densified biomass to heat public schools. The pilot program must replace the current heating system in one public school with a heating system that uses densified biomass as a fuel. WSU must measure and evaluate the heating system, including a cost comparison with other conventional fuels and emission measurements.

WSU must use the following criteria when choosing the school for the pilot program: (1) the school's proximity to a currently operating densified biomass manufacturing facility; (2) the age and condition of the school's current heating system; and (3) the school's design is of a nature that most resembles other schools of its class.

In designing the pilot program, WSU must seek to leverage other existing private and federal funding programs and resources. It may also contract with other entities for assistance in implementing the pilot program.

WSU must summarize its findings in a report to the Legislature by December 31, 2015. The report must include an analysis extrapolating the results to other similarly situated schools in the state.

Findings. The Legislature finds, among other things, that clean-burning, renewable densified biomass leads the country to energy independence, stimulates the economy, reduces carbon emissions, promotes healthy forests, and is complimentary to other biofuel industries.

EFFECT OF CHANGES MADE BY WAYS & MEANS COMMITTEE (Recommended Substitute): Adds language expressing to the benefits of heating with densified biomass to the section that details Legislative findings.

Adds language that makes the densified biomass pilot program subject to funding being received from private and federal sources.

Appropriation: None.

Fiscal Note: Available.

Committee/Commission/Task Force Created: No.

Effective Date: Ninety days after adjournment of session in which bill is passed.

Staff Summary of Public Testimony (Energy, Environment & Telecommunications): PRO: Densified biomass is a proven technology used in Europe and Asia. Not only is it sustainable and environmentally friendly, it is the only renewable fuel that can be easily handled and transported. Densified biomass heating appliances are highly efficient and cost effective, and if used in schools, the fuel savings can be used to help teachers and students. Washington currently sends biomass out of the state and imports manufactured pellets, which is backwards. Densified biomass reduces carbon emissions from fossil fuels, improves air quality in non-compliant air sheds, can lead our country toward energy independence, creates jobs in rural areas, and stimulates our economy by keeping more of our money circulating locally.

OTHER: WSU has the in-house expertise to run the pilot program and is eager to do so if it is funded.

Persons Testifying (Energy, Environment & Telecommunications): PRO: Senator Smith, prime sponsor; Dan Henry, 5G3 Consulting; Leah Hauer, NW Hearth Products Assn.; Stan Elliot, Olympus Pellets; Rachael Jamison, Department of Natural Resources; David Palmer, Schneider Electric.

OTHER: Sheila Riggs, Dave Sjoding, WSU Energy Program.

Staff Summary of Public Testimony on Original Bill (Ways & Means): PRO: Results of a demonstration project from a county hospital in Oregon have shown in less than three years, that densified biomass is a cheaper source of fuel. The cost savings were used to make payments on their MRI scanner. Harvesting densified biomass from our forests will help with forest health.

Persons Testifying (Ways & Means): PRO: Daniel Henry, 5G3 Consulting.