## **Biomass Thermal Utilization (BTU) Act of 2013**

Sponsors: Senator Angus King (I-ME), Senator Susan Collins (R-ME)

Pennsylvania Biomass Energy Association

Vermont Energy Investment Corporation Watershed Research & Training Center

Sustainable Northwest

A thermal biomass system is a stove, furnace or boiler that runs on biomass fuels such as wood pellets and chips, solid wood or agricultural residues. The What is thermal system produces thermal energy for heating residential, commercial and industrial biomass? buildings, as well as process heat for industrial applications. Wood pellets, chips and solid wood are the most common fuels for biomass heating systems, although agricultural wastes will see growth in the future. Wood pellets are generally made from wood waste, condensed under heat and pressure, with no additives. They have high energy density, low moisture content, and are as easy to transport and use as traditional fossil fuels. Wood chips offer A biomass thermal system a slightly less refined form of biomass fuel, but also allow for easy transport and can provide hot air, water, storage. and process heat Advanced combustion technologies allow the use of biomass fuels with very high efficiencies and low emissions. Leading technologies have been developed in Europe, but are now entering the U.S. market. Domestic U.S. manufacturers are also developing advanced technologies. These technologies utilize fuels and feedstocks that support forest- and agricultural-based economic development in rural regions. Many rural regions are dependent on imported fossil heating fuels such What are the as oil and propane, and do not have access to natural gas. Locally produced biomass fuels can displace economic and dependence on these expensive imported fuels, thereby keeping fuel dollars local and greatly reducing heating costs. environmental benefits of Wood pellet and chip manufacturing, as well as dedicated production of agricultural feedstocks for thermal applications can help revitalize economies in regions that have been impacted by decline in forest industry or renewable thermal agriculture. Biomass thermal creates and helps retain JOBS. biomass? Biomass fuels are low carbon and result in net reduction of greenhouse gas emissions when displacing high carbon intensity fuels such as heating oil. In addition, the use of wood fuels reduces sulfur emissions that contribute to acid rain. The use of biomass fuels produced in America helps strengthen American energy independence and security. The BTU Act adds high efficiency biomass thermal technologies to the list of renewable energy technologies that current benefit from investment tax credits Why is the BTU under section 25D (residential) and Section 48 (commercial/industrial) of the tax Act important? Biomass fuels can be code. This investment credit currently applies to solar thermal and geothermal technologies, but not to biomass thermal. The BTU Act corrects this oversight. The conveniently delivered in bulk BTU Act only qualifies the most efficient and advanced technologies for the credit. Investment credits are needed for advanced biomass thermal technologies because of their comparatively high up front capital cost. This "capital hurdle" must be overcome to build the market and gain economies of scale that will bring system costs down. Similar policy has been very effective in reducing the cost of solar (PV and thermal) and geothermal technologies. Alliance for Green Heat National Association of Forest Service Retirees Who supports the American Boiler Manufacturers Association National Network of Forest Practitioners American Forest Foundation New York Biomass Energy Alliance **BTU Act?** North Country Resource Conservation and Aroostook Partnership for Progress **Biomass Energy Resource Center Development Council** Biomass Thermal Energy Council Northeast Biomass Thermal Working Group Hardwood Federation Northern Forest Center Heating the Midwest with Renewable Biomass Pellet Fuels Institute

International District Energy Association

Maine Pellet Fuels Association

Mt. Adams Resource Stewards