



BC Ministry of Energy, Mines and Petroleum Resources

BC's Bioenergy Strategy: Growing BC's Natural Energy Advantage

Janice Larson
Director, Bioenergy and Renewables
BC Ministry of Energy, Mines and Petroleum Resources





2007 Throne Speech

Government to tackle the challenges of global warming

Several actions identified, including:

- **Legislation to reduce GHG emissions by at least 33% below current levels by 2020, 80% by 2050**
- **Energy efficiency, conservation**
- **Methane capture at landfills, beehive burner shutdown**
- **Low carbon fuel standard, tailpipe emission standards,**
- **Renewable fuel standards**

....and

Advancing the use of MPB Timber and wood residues for clean energy





2007 Energy Plan

- BC will be electricity self-sufficient by 2016
- All new electricity will have zero net GHG emissions
- By 2016, existing thermal generating power plants will achieve zero net GHG emissions
- Ensure clean or renewable electricity generation continues to account for at least 90 per cent of total generation
- Small power standing offer
- \$25 million Innovative Clean Energy Fund (deadline: March 3)
- Implement a 5 per cent renewable fuel standard
- Implement a Bioenergy Strategy
- BC Hydro will issue a call for proposals for electricity from wood biomass



2008 Throne Speech

- **The discharge of landfill gas will be regulated to foster the capture and conversions of emissions into clean energy.**
- **The new BC Bioenergy Strategy will create new opportunities in clean technology for rural communities, for independent power producers, and for our forest and agriculture industries.**
- **Government will make the most of beetle-killed wood while it is still viable and valuable for lumber, wood products, pulp and paper, and new opportunities in bioenergy.**
- **Creation of the Pacific Carbon Trust to invest in BC projects that reduce emissions (e.g. renewable energy)**



BC's Bioenergy Strategy

- Released January 31, 2008 by the Premier and the Energy, Forests and Agriculture Ministers
- Recognizes bioenergy as a BC strength and a key opportunity to meet environmental, energy and economic development goals for the forest and agriculture sectors, communities and First Nations throughout the province.

www.energyplan.gov.bc.ca/bioenergy

BC Biomass Energy Today





Bioenergy Strategy Highlights

- **Establish \$25 million in funding for a provincial Bioenergy Network for greater investment and innovation in BC bioenergy projects and technologies**
- **Establish funding to advance provincial biodiesel production with up to \$10 million over three years**
- **Issue a two-part Bioenergy Call for Power, focusing on existing biomass inventory in the forest industry**



Bioenergy Strategy Highlights

- **Aim for BC biofuel production to meet 50 percent or more of the province's renewable fuel requirements by 2020**
- **Develop at least 10 community energy projects that convert local biomass to energy by 2020**
- **Establish one of Canada's most comprehensive provincial biomass inventories to help identify waste to energy opportunities**

Waste no more...





Bioenergy Strategy Actions include:

- **Develop a provincial biomass inventory**
- **Develop legislation to phase in requirements for landfill gas capture and regulatory measures for beehive burner shutdown**
- **Review regulatory/permitting for ag-based bioenergy**
- **Promote wood pellet production and market development**
- **Improve access to wood fibre bioenergy feedstock**
- **Review boiler regulations to help facilitate bioenergy technology uptake in the forest sector**
- **Support wood gasification R&D, cellulosic ethanol and biorefining development**
- **Information guide for bioenergy in First Nations and communities – [now available online](#)**



Conclusion

- **BC has proven capabilities in bioenergy**
- **BC has enormous bioenergy resources, intellectual talent, and industry leaders**
- **the Mountain Pine Beetle epidemic is a platform upon which we expand and develop bioenergy opportunities**
- **We look forward to building partnerships and working together with industry, communities, academia and other stakeholders to realize BC's bioenergy and renewable energy potential**

Hasta la Vista, Burner





BRITISH COLUMBIA

Ministry of Energy, Mines
and Petroleum Resources