

Pollution Probe Green Power Workshop

February 9 – 10, 2004
Calgary

Clean Air Renewable Energy Coalition

Dianne Humphries

Manager, Sustainable Development, Suncor Energy Inc.



Clean Air Renewable Energy Coalition

- Initiated in December 2000 by Suncor Energy Inc. and Pembina Institute
- Since expanded to 20 members (industry, ENGOs, municipalities)
- Focus on advancing Green Power (as defined by Eco Logo) in Canada
- Members forced to ‘check their biases at the door’ in working on Coalition matters
- Creates a united front with clear messages (presentations, backgrounder, vision document, standing committees)



Who We Are

AIM PowerGen Corporation

Axor

BC Hydro

BP Canada Energy Company

Benign Energy Canada Inc.

Canadian Hydro Developers

Enbridge

Enmax

Hydro Quebec

Federation of Canadian Municipalities

Friends of the Earth

International Institute for
Sustainable Development

Ontario Power Generation Inc.

Pembina Institute

Pollution Probe

Shell Canada Limited

Suncor Energy

Toronto Atmospheric Fund

Toronto Environmental Alliance

Toronto Hydro



Why Create a Vision for a Low-Impact Renewable Energy?

- Coalition surveyed past work and future political horizon
- Ascertained that Low-Impact Renewable Energy is still treated as a 'Niche Player'
- Clear need for targets
- Decided to develop a Big-Picture Vision to take to:
 - A new Prime Minister and Federal Cabinet
 - Current and new Provincial and Territorial Premiers and Cabinets
 - The Media and Public
 - Build on past efforts (2001 and 2002 Backgrounders)



What is our Vision?

The Clean Air Renewable Energy Coalition's
Goal is:

*“To have low-impact renewable energy
account for a minimum of 7 %
of Canada’s electricity production in 2010,
and 15 % by 2020”*

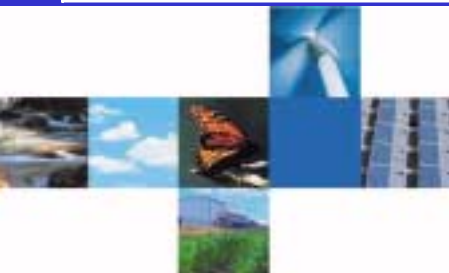


RENEWABLE ELECTRICITY POTENTIALS IN CANADA (TWh p.a.)

	Current Generation	Potential Generation (Minimum)	Potential Generation (Maximum)
Onshore Wind	1	12.3	86
Solar PV	0.001		0.012
Small Hydro	4	15	98
Biomass	1.9	49	154
Landfill gas	0.6	0.9	2.7
Wave / Tidal	0.1	45	56
Geothermal	0		1.1
TOTAL	7.6	122	398

Canadian Traditional Generation Source TWh (2000)

Large Hydro	346
Thermal	147
Nuclear	68
TOTAL TRADITIONAL	561



What does this imply?

- Our estimate indicates that Canada's potential for low-impact renewable resources is 122 to 398 TWh p.a.
- Good market and growth opportunities
- This assessment takes renewable energy from a 'Niche' source to a diversified partner to be treated on a level playing field



Recommendations for Canada (5)

1. Define a Comprehensive Renewable Energy Vision for Canada

- comprehensive renewable energy resource assessment
- R&D money for early-stage technologies
- differentiated guaranteed prices (feed-in tariffs)
- role renewable energy will play in a carbon-constrained economy



Recommendations for Canada (5)

2. Set Long-Term Targets for Renewable Energy in Canada

- a minimum of 7 % of Canada's electricity production in 2010 (approximately 30% of new capacity between 2000 & 2010 - triple the existing federal government target) and;
- a minimum of 15 % of Canada's electricity production in 2020



Recommendations for Canada

3. Commit to a Package of Long-Term and Broad Market and Government Incentives

- The Federal **Wind Power Production Incentive (WPPI)** be increased to 2.7 cents / kWh
- Expand WPPI to **other renewable energy technology**
- Federal climate change-related money be used to **expand the Market Incentive Program** funding to \$30 million per year, extend it to 2012 and consult with the provinces and territories to develop a broader-based green energy rebate and education program for consumers



Recommendations for Canada

4. Build better Partnerships between the Federal and Provincial Governments

- commit to purchasing 30% of their electricity needs from low-impact renewable energy by 2010, and increase that to 80% by 2020
- identify minimum levels of electricity production to come from low-impact renewable energy
- collaborate to do a comprehensive assessment of Canada's full potential for low-impact renewable energy

5. Recognize the Potential for Renewable Energy in a Carbon-Constrained Economy



Benefits

- **Investment in Innovative and Sustainable Renewable Energy Technologies**
- **Diversification of Canada's Energy Supply**
- **Support for New Industrial Development**
- **Made-In-Canada Manufacturing Facilities**
- **Regional Economic Development**
- **New Capital Investment and Job Creation**
- **Competitiveness**
- **Clean Air**
- **Reduced GHG Emissions**



Conclusion

- **Green Power / Low-Impact Renewable Energy is not a 'Niche' source**
- **Great benefits to Canadian society and the environment**
- **The public is demanding cleaner, more sustainable power**
- **Making it happen requires a Vision and clear messaging**
- **Making it happen requires doing things differently**



Contact Information

Coalition Coordinator
Mark Rudolph

mark@cleanairrenewableenergycoalition.com

www.cleanairrenewableenergycoalition.com



Comments on the Vision: For Discussion

1. Define a Comprehensive Renewable Energy Vision for Canada
2. Set long-term targets for Renewable Energy in Canada
3. Commit to a Package of Long-Term and Broad Market and Government Incentives
4. Build better Partnerships between the Federal and Provincial Governments
5. Recognize the Potential for Renewable Energy in a Carbon-Constrained Economy

