

# RENEWABLE ENERGY DEVELOPMENT IN ONTARIO (REDO)

## General Information for Potential Developers<sup>1</sup>

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### **PROVINCIAL GOVERNMENT SUPPORT**

The government is committed to increasing the supply of electricity from renewable sources and has set targets of 1,350 MW by 2007 and 2,700 MW by 2010. As a first step towards meeting these targets, the Ministry initiated a Request for Proposal (RFP) for 300 MW of renewable energy supply in the first half of 2004. The RFP was open to projects located anywhere in Ontario that used wind, water, solar, biogas and landfill gas to generate electricity. Eligible projects could have been as small as 0.5 megawatts, or up to 100 megawatts in generating capacity.

At the close of the RFP, the Ministry received 41 proposals for approximately 1,100 megawatts of new renewable energy capacity. These proposals were evaluated against technical and financial criteria set out in the RFP. Proposals which passed this technical and financial review were subsequently ranked according to price. The 10 winning projects were announced on November 24, 2004.

The 10 projects represent 395 MWs of clean, renewable generating capacity. This will assist in reducing our dependence on coal-fired plants and will enhance air quality throughout the province and provide job opportunities.

The 10 projects include 354.6 MW of wind (5 projects), 31 MW of hydroelectric (2 projects) and 9.1 MW of landfill gas and biogas (3 projects). These projects represent a total capital investment in our province of close to 700 million dollars - which will be of tremendous benefit to Ontario's economy. The average price of the selected projects is just under 80 dollars per megawatt-hour - including interconnection costs - and the projects are well represented within every region of the province.

The projects will spur economic development in the renewable energy sector and will bring up to an estimated \$700 million of new investment to Ontario. The success of this RFP gives us great confidence that we will be able to meet or exceed our renewable portfolio standard target of 5% by 2007. This RFP was just the first of many future opportunities in Ontario for renewable generators, both large and small.

For more information about the 300 MW RFP for Renewable Energy, I invite you to visit the dedicated website at [www.ontarioelectricityrfp.ca](http://www.ontarioelectricityrfp.ca). I would encourage you to visit the site regularly for the latest RFP news and updates.

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<sup>1</sup>The Ontario government does not endorse the services or products of any of the organizations mentioned below. The contacts are provided for information purposes only. Information is accurate as of time of writing and is subject to change. Please verify details with contacts as appropriate

The Ontario government has identified the need to support renewable energy through other initiatives, and provides a number of tax incentives for clean, alternative or renewable electricity generation facilities and residential systems. For additional detailed information on the tax initiatives listed below, please contact the nearest Ontario Ministry of Finance Tax Office listed under Taxes - Provincial (Retail) Sales Tax in the blue pages of your telephone directory, or call the TAX Fx Service at 1-877-4-TAX-Fx (1-877-482-9329), or visit the Ministry of Finance's website at [www.trd.fin.gov.on.ca](http://www.trd.fin.gov.on.ca).

### **Retail Sales Tax Rebate for Building Materials Incorporated into Qualifying Generating Facilities**

Eligible electricity generating facilities or deep lake-water cooling facilities may receive a rebate of Retail Sales Tax (RST) paid on building materials purchased and incorporated into such facilities after November 25, 2002 and before January 1, 2008. The rebate is also available to owners of qualifying nuclear facilities for building materials purchased and incorporated into facilities.

A Tax Notice is available at:

[www.trd.fin.gov.on.ca/userfiles/page\\_attachments/Library/3/Rsie\\_In31.pdf?N\\_ID=3](http://www.trd.fin.gov.on.ca/userfiles/page_attachments/Library/3/Rsie_In31.pdf?N_ID=3)

Ontario Regulation 284/03 was filed on July 7, 2003, and is available at:

[www.e-laws.gov.on.ca/DBLaws/Source/Regs/English/2003/R03284\\_e.htm](http://www.e-laws.gov.on.ca/DBLaws/Source/Regs/English/2003/R03284_e.htm)

### **Corporate Income Tax Write-off and Capital Tax Exemption**

An immediate 100% Corporate Income Tax write-off and capital tax exemption for the cost of assets used to generate electricity from clean, alternative or renewable sources. Asset must be acquired after November 25, 2002 and before January 1, 2008, with a transitional provision for assets acquired after Oct. 30, 1998, and before November 26, 2002. The regulation was filed on July 7, 2003 but still requires a technical amendment and additional legislation to be made consistent with corporate income tax write-off regulation. Distribution assets are not eligible.

Ontario Regulation 283/03 was filed on July 7, 2003, and is available at:

[www.e-laws.gov.on.ca/DBLaws/Source/Regs/English/2003/R03283\\_e.htm](http://www.e-laws.gov.on.ca/DBLaws/Source/Regs/English/2003/R03283_e.htm)

### **Gross Revenue Charge (GRC) - Waterpower**

The Ontario Ministry of Finance passed legislation in 2000 to promote investment in waterpower development in Ontario. Effective January 1, 2001, the existing property taxes and water rental charges paid by hydro-electric generating station owners and water power leaseholders were replaced with taxes and charges on the gross revenues of hydro-electric generating stations. These taxes and charges on gross revenues represent separate components of what is known as the Gross Revenue Charge (GRC).

Information on the GRC is available at:

[www.trd.fin.gov.on.ca/userfiles/HTML/cma\\_3\\_25\\_21\\_1.html](http://www.trd.fin.gov.on.ca/userfiles/HTML/cma_3_25_21_1.html)

A Ministry of Finance Tax Bulletin is available at:

[www.trd.fin.gov.on.ca/userfiles/page\\_attachments/Library/3/mtiebul-ea1-2002.pdf](http://www.trd.fin.gov.on.ca/userfiles/page_attachments/Library/3/mtiebul-ea1-2002.pdf)

### **NOTICE: Repealed Corporate Tax Incentives**

*As a result of these initiatives, the government will repeal the following tax incentives for electricity supply and conservation that have not been fully implemented:*

- *Legislation will be introduced to repeal the 10-year corporate income tax holiday and the 10-year property tax holiday effective Nov. 26, 2002.*
- *The government will not proceed with implementing the corporate income tax deduction for self-generation announced in the 2003 Ontario Budget and the immediate 100 per cent corporate income tax write-off for electrical energy-efficient equipment.*

### Residential Retail Sales Tax Rebate

Homeowner's can receive a rebate of Retail Sales Tax (RST) paid on the purchase of a new solar energy system installed into a residential premises, including a multi-residential building, or on any expansion or upgrade to an existing solar energy system.

On May 18, 2004, the government announced in its 2004 Budget that it intends to expand the Retail Sales Tax rebate for solar energy systems to include wind energy systems, micro-hydroelectric systems and geothermal heating/ cooling systems for residential applications. Additional information will be available on the Ministry of Finance website.

### Net Metering - Provincial

It will also be advantageous for homeowners in this province to produce some of their own power through an arrangement known as "net metering". Net metering permits electricity customers to offset some of the cost of their individual electricity consumption by self-generating. Net metering allows a grid-connected electricity customer who installs their own renewable generation equipment to return electricity to the grid for credit against consumption, instead of having to store it in batteries. At times when the customer's generation exceeds their requirements, the excess goes into the grid. When the customer's requirements exceeds their generation, they take power from the grid.

Currently net metering is only available at the discretion of electricity distribution companies. On January 5, 2005, the government demonstrated its intention to expand and encourage this innovative option by requiring all distributors to allow net metering, and posted a draft regulation for public review and comment on the Environmental Bill of Rights Registry. The regulation, after consideration of comments received, should be finalized before this summer. The Proposal is posted on the Environmental Bill of Rights Registry website at: [www.ene.gov.on.ca/envregistry/024168er.htm](http://www.ene.gov.on.ca/envregistry/024168er.htm)

### Net Metering - Hydro One Service Area

Customers can now benefit from Hydro One Networks' net metering program. Customers can connect renewable energy generators 50 kW or smaller to the Hydro One distribution system.

A Ministry of Finance Info Notice can be viewed at: [www.trd.fin.gov.on.ca/userfiles/HTML/cma\\_3\\_25706\\_1.html](http://www.trd.fin.gov.on.ca/userfiles/HTML/cma_3_25706_1.html)

*(A General Application for Refund of Retail Sales Tax form is to be completed when claiming a refund of Ontario retail sales tax (RST). The form can be obtained at: [www.trd.fin.gov.on.ca](http://www.trd.fin.gov.on.ca))*

The draft regulation proposes to:

- Allow renewable sources, defined as wind, water, solar and farm biomass;
- Allow generators up to 500 kW;
- Mandate an annual accounting cycle to accommodate variations in a customer's consumption and/or generation cycle; and
- Mandate that credits for generation are calculated on the same basis as the customer's charges for consumption. On an annual basis, a customer's generation credits can equal, but not exceed, the customer's consumption charges.

The inclusion of generators up to 500 kW makes our regulation one of the most progressive in North America. The regulation also accommodates seasonal variations in a customer's consumption or generation.

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Energy Efficiency and Renewables  
Ministry of Energy  
880 Bay Street, 3rd Floor  
Toronto, Ontario, Canada M7A 2C1  
Email: [john.rinella@energy.gov.on.ca](mailto:john.rinella@energy.gov.on.ca)  
Ph: (416) 325-7062  
Fx: (416) 325-7023

Don Krause  
Hydro One Networks Inc.  
185 Clegg Rd.  
Markham, Ontario, Canada L6G 1B7  
Ph: (416) 345-5990  
Fx: n/a  
Email: [don.krause@hydroone.com](mailto:don.krause@hydroone.com)  
URL: [www.hydroonenetworks.com/en/electricity\\_updates](http://www.hydroonenetworks.com/en/electricity_updates).

### **Emissions Reductions Trading**

The Ontario Ministry of the Environment (MOE) administers an "Emissions Trading Regulation" (O.Reg.397/01) and a related "Ontario Emissions Trading Code". The regulation establishes rules, emissions caps, the geographic extent of the trading and a trading registry. Cross-border credit trading is limited to twelve key American states whose emissions have the greatest impact on air quality in Ontario. This credit allowance is accessible to approved new conservation and renewable energy sources which displace electricity produced from coal or oil generation.

John Hutchison  
Senior Policy Advisor  
Air Policy and Climate Change Branch, Ministry of the Environment  
135 St. Clair Avenue West 4<sup>th</sup> Floor  
Toronto, Ontario, Canada M4V 1P5  
Ph: (416) 314-6789  
Fx: (416) 314-4128  
E-mail: [john.hutchison@ene.gov.on.ca](mailto:john.hutchison@ene.gov.on.ca)  
URL: [www.ene.gov.on.ca/envision/air/etr/index.htm](http://www.ene.gov.on.ca/envision/air/etr/index.htm)

### **Ontario Trillium Foundation**

The Ontario Trillium Foundation works with others to make strategic investments to build healthy, sustainable, caring and economically strong Ontario communities. The Foundation has two funding programs: Community (80% of available funding) and Province-Wide (20% of available funding), with the Foundation's Board of Directors overseeing both programs.

Community Programs  
Ontario Trillium Foundation  
45 Charles Street East 5th Floor  
Toronto, Ontario, Canada M4Y 1S2  
Ph: 1-800-263-2887  
Fx: (416) 963-8781  
Email: [trillium@trilliumfoundation.org](mailto:trillium@trilliumfoundation.org)  
URL: [www.trilliumfoundation.org](http://www.trilliumfoundation.org)

### **Rural Economic Development Program**

The Rural Economic Development Program, a \$200 million, five-year program is offered by the Ontario Ministry of Agriculture and Food as a component of the Ontario Small Town and Rural (OSTAR) Development Initiative - a \$600 million initiative to assist economic growth in rural Ontario. The program addresses barriers and promotes the exploration of new technologies and processes for non-traditional uses of agricultural commodities and waste products.

Rural Economic Development Program  
Rural Investments Branch, Ministry of Municipal Affairs and Housing  
1 Stone Road West  
Guelph Ontario Canada N1G 4Y2  
Ph: 1-888-588-4111  
Fx: (519) 826-4336  
Email: [red@mah.gov.on.ca](mailto:red@mah.gov.on.ca)  
URL: [www.mah.gov.on.ca](http://www.mah.gov.on.ca)

### **Alternative Renewable Fuels Research and Development Fund**

The Alternative Renewable Fuels Research and Development Fund is a competitive research fund managed by the Ministry of Agriculture and Food. Through research and development, the development of new technologies or adaptation of existing technologies related to production of alternative renewable fuels provides potential to increase the diversification of agriculture and provide job creation in rural areas.

Alternative Renewable Fuels Research and Development Fund - Ministry of Agriculture and Food  
1 Stone Road West  
Guelph Ontario Canada N1G 4Y2  
Ph: 1-888-466-2372 ext. 64554  
Fx: n/a  
Email: [research@omaf.gov.on.ca](mailto:research@omaf.gov.on.ca)  
URL: [www.gov.on.ca/OMAF/english/research/arfuels](http://www.gov.on.ca/OMAF/english/research/arfuels)

### **Northern Ontario Heritage Fund Corporation**

The Northern Ontario Heritage Fund Corporation (NOHFC) works in partnership with the private sector and other levels of government to diversify and grow the northern economy and stimulate jobs. Eligible applicants may include private/public partnerships, federal government and other government related agencies acting together, municipalities, First Nations, Local Service Boards and not-for-profit corporations.

Northern Ontario Heritage Fund Corporation  
Ministry of Northern Development and Mines  
Roberta Bondar Place, 70 Foster Drive, Suite 200  
Sault Ste. Marie, Ontario, Canada P6A 6V8  
Ph: 1-800-461-8329  
Fx: (705) 945-6701  
E-mail: [nohfc@ndm.gov.on.ca](mailto:nohfc@ndm.gov.on.ca)  
URL: [www.mndm.gov.on.ca/nohfc](http://www.mndm.gov.on.ca/nohfc)

## **TECHNOLOGY INFORMATION**

### **The Canadian Renewable Energy Network (CanREN)**

The Renewable Energy Network was created through the efforts of Natural Resources Canada (NRCan) and its stakeholders. Its purpose is to increase the understanding of renewable energy to accelerate the development and commercialization of renewable energy technologies. CanREN offers general information on renewable energy sources, and presents Canadians with the knowledge and support they need to make renewable energy part of their everyday lives.

CanREN Webmaster  
c/o Natural Resources Canada  
580 Booth Street 13th Floor  
Ottawa Ontario Canada K1A 0E4  
Ph: n/a  
Fx: n/a  
E-mail: [info@canren.gc.ca](mailto:info@canren.gc.ca)  
URL: [www.canren.gc.ca](http://www.canren.gc.ca)

### **Canadian Renewable Energy Guide**

The Renewable Energy Guide (2<sup>nd</sup> Edition), published by the Solar Energy Society of Canada, contains helpful information on renewable energy systems, including lists of manufacturers and suppliers of small and large energy systems and related services.

Canadian Renewable Energy Guide  
General Store Publishing House  
PO Box 28 1694 Burnstown Road  
Burnstown Ontario Canada K0J 1G0  
Ph: 1-800-465-6072  
Fx: (613) 432-7184  
Email: [orders@gsph.com](mailto:orders@gsph.com)  
URL: [www.newenergy.org/re\\_guide.html](http://www.newenergy.org/re_guide.html)

### **RETScreen**

RETScreen<sup>TM</sup> is a standardized pre-feasibility analysis model that will help identify and evaluate the most viable opportunities for cost-effective implementation of renewable energy technologies. The model is comprised of software, a comprehensive user manual and a Canadian remote communities data base. CanREN provides design and analysis tools to help calculate energy needs in all areas of renewable energy.

RETScreen Customer Support  
CANMET Energy Diversification Research  
Laboratory (CEDRL)  
1615 Lionel-Boulet Blvd P.O. Box 4800  
Varenes Quebec Canada J3X 1S6  
Ph: (450) 652-4621  
Fx: (450) 652-5177  
E-mail: [rets@nrcan.gc.ca](mailto:rets@nrcan.gc.ca)  
URL: [www.retscreen.net](http://www.retscreen.net)

### **Kortright Centre for Conservation**

The Centre (located north of Toronto) provides information and education to the public on small renewable energy systems for homes and cottages, including annual workshops on the installation of small renewable energy systems. The Centre's "Renewable Energy Trail" includes on-site demonstrations of small wind, solar and other renewable energy and energy conservation technologies in operation.

Kortright Centre for Conservation  
Toronto and Region Conservation  
9550 Pine Valley Drive  
Woodbridge Ontario Canada L4L 1A6  
Ph: (905) 832-2289  
Fx: (905) 832-8238  
Email: [kcc@look.ca](mailto:kcc@look.ca)  
URL: [www.kortright.org](http://www.kortright.org)

### **Association of Power Producers of Ontario (APPrO)**

The premier site for information on independent power production in Canada. Information is provided on ways to produce and use energy in the most effective and environmentally-friendly ways possible.

Association of Power Producers of Ontario  
PO Box 1084 Station F  
Toronto Ontario Canada M4Y 2T7  
Ph: (416) 322-6549  
Fx: (416) 481-5785  
Email: [APPrO@APPrO.org](mailto:APPrO@APPrO.org)  
URL: [www.newenergy.org](http://www.newenergy.org)

## **Environmental Management and Engineering - Agriculture Sector**

For information on a variety of topics relating to energy use on the farm, including alternative and renewable energy, visit the Ontario Ministry Of Agriculture and Food's Engineering webpage.

Ministry of Agriculture and Food  
1 Stone Road West  
Guelph Ontario Canada N1G 4Y2  
Ph: 1-888-466-2372  
Fx: n/a  
Email: [ag.info@omaf.gov.on.ca](mailto:ag.info@omaf.gov.on.ca)  
URL:  
[www.gov.on.ca/OMAFRA/english/engineer/index.html](http://www.gov.on.ca/OMAFRA/english/engineer/index.html)

## **OTHER SUPPORT**

### **Canadian Renewable and Conservation Expenses (CRCE) Allowance**

The Canadian Renewable and Conservation Expenses (CRCE) allowance amounts to flow-through share financing for early intangible project expenses for qualified investors; and accelerated income tax write-off for certain generation equipment under Class 43.1 Capital Cost Allowance. "Tax Incentives for Business Investments in Energy Conservation and Renewable Energy" pamphlet is available on the Secretariat's website.

Class 34/43.1 Secretariat  
Renewable and Electrical Energy Division, Natural Resources Canada  
580 Booth Street 18th Floor  
Ottawa Ontario Canada K1A 0E4  
Ph: 1-800-387-2000  
Fx: (613) 995-7868  
Email: [reed.dere@nrcan.gc.ca](mailto:reed.dere@nrcan.gc.ca)  
URL: [www2.nrcan.gc.ca/es/erb/CMFiles/M92\\_159\\_1998\\_e164QQB-732002-8656.pdf](http://www2.nrcan.gc.ca/es/erb/CMFiles/M92_159_1998_e164QQB-732002-8656.pdf)

### **Federal Government Green Electricity Purchase**

Under the Government of Canada Action Plan 2000 on Climate Change, the federal government intends to purchase 20 per cent of federal electricity requirements from emerging low or non-emitting energy sources. As part of this program, the federal government is seeking partnerships to develop new renewable energy projects, including wind/solar/water energy.

Mario DoRego  
Renewable and Electrical Energy Division, NRCan  
580 Booth Street 17<sup>th</sup> Floor  
Ottawa Ontario Canada K1A 0E4  
Ph: (613) 947-5101  
Fx: (613) 995-0087  
Email: [reed.dere@nrcan.gc.ca](mailto:reed.dere@nrcan.gc.ca)  
URL: [www.reed.nrcan.gc.ca](http://www.reed.nrcan.gc.ca)

### **Market Incentive Program for Distributors of Emerging Renewable Electricity Sources**

The federal government's \$25 million "Market Incentive Program" (MIP) encourages electricity utilities and marketers to promote electricity from renewable energy sources such as wind, solar and biomass. The program aims to establish renewables as full-fledged competitors in the electricity market by 2010, and to reduce greenhouse gas emissions from electricity generation. Funding is available until April, 2006.

Florian Laberge  
Renewable and Electrical Energy Division, NRCan  
580 Booth Street  
Ottawa Ontario Canada K1A 0E4  
Ph: (613) 996-5375  
Fx: (613) 995-0087  
Email: [flaberge@nrcan.gc.ca](mailto:flaberge@nrcan.gc.ca)  
URL: [cleanenergy.gc.ca/canada/initiative\\_e.asp?item=520](http://cleanenergy.gc.ca/canada/initiative_e.asp?item=520)

### **Renewable Energy Deployment Initiative**

The "Renewable Energy Deployment Initiative" (REDI) offers incentives for the installation of some types of renewable energy generation systems in municipal, institutional and commercial buildings. The REDI program has focussed on solar energy and biomass systems and on ground source heat pumps.

Renewable Energy Deployment Initiative  
Renewable and Electrical Energy Division, NRCan  
18<sup>th</sup> Floor 580 Booth Street  
Ottawa Ontario Canada K1A 0E4  
Ph: 1-877-722-6600  
Fx: (613) 943-1590  
Email: [reed.dere@nrcan.gc.ca](mailto:reed.dere@nrcan.gc.ca)  
URL: [www2.nrcan.gc.ca/es/erb/erb/english/View.asp?x=455](http://www2.nrcan.gc.ca/es/erb/erb/english/View.asp?x=455)

## **Green Municipal Funds**

The Federation of Canadian Municipalities (FCM), in collaboration Natural Resources Canada, provides leveraged funding in partnership projects which promote environmental protection - including renewable energy - in local communities.

Monique Delinelle - Information Officer  
Green Municipal Funds, Federation of Canadian Municipalities  
24 Clarence Street  
Ottawa, Ontario, Canada K1N 5P3  
Ph: (613) 241-5221 ext. 357  
Fx: (613) 241-2126  
Email: [kmckerlie@fcm.ca](mailto:kmckerlie@fcm.ca)  
URL: [kn.fcm.ca](http://kn.fcm.ca)

## **Pilot Emission Removals, Reductions and Learnings (PERRL) Initiative**

PERRL is an innovative federal initiative which is part of Canada's Action Plan 2000, the federal government's action plan to combat climate change. PERRL is designed to provide Canadian companies, organizations and even individuals with an economic incentive to take immediate action to reduce greenhouse gas emissions. Through PERRL, the federal government will buy the rights to verified greenhouse gas emission reductions from eligible projects, each on a fixed price per tonne basis.

PERRL Initiative  
Strategies and Co-ordination Branch, Environment Canada  
10th Floor - Place Vincent Massey  
351 St-Joseph Blvd.  
Gatineau, Quebec K1A 0H3  
Email: [perrl@ec.gc.ca](mailto:perrl@ec.gc.ca)  
URL: [www.ec.gc.ca/perrl](http://www.ec.gc.ca/perrl)

## **Energy Innovators Initiative**

The Energy Innovators Initiative (EII) encourages commercial businesses and public institutions to make investments in energy efficiency. Energy retrofits help reduce energy costs, improve competitiveness and reduce greenhouse gas emissions that contribute to climate change. As part of Natural Resources Canada's Office of Energy Efficiency, the program offers members access to tools and financial incentives.

Energy Innovators Initiative  
Office of Energy Efficiency, NRCan  
580 Booth Street 18th Floor  
Ottawa Ontario Canada K1A 0E4  
Ph: (613) 992-3245  
Fx: (613) 947-4121  
Email: [info.services@nrcan.gc.ca](mailto:info.services@nrcan.gc.ca)  
URL: [oee.nrcan.gc.ca/eii](http://oee.nrcan.gc.ca/eii)

## **Canadian Agricultural Rural Communities Initiative**

The Canadian Agricultural Rural Communities Initiative (CARCI) was developed through consultations between industry and stakeholders. These consultations identified priorities for a renewed Canadian Adaptation and Rural Development program with greater focus on rural agricultural community development. The program is no longer accepting applications. Please continue to visit their website for future initiatives.

Rick Kush  
Agriculture and Agri-Food Canada  
174 Stone Road West  
Guelph Ontario Canada N1G 4S9  
Ph: (519) 826-2029  
Fx: (519) 826-2342  
Email: [Kushr@agr.gc.ca](mailto:Kushr@agr.gc.ca)  
URL: [www.agr.gc.ca/carci/home\\_e.html](http://www.agr.gc.ca/carci/home_e.html)

## **Clean Energy Portal**

The Clean Energy Portal is your best resource to provide superior scientific and technical advice and affordable solutions to meet your business-related energy needs. For a list of initiatives available in Canada, please visit their website.

Geoffrey Murphy - A/Manager  
Business Development and Marketing, CANMET  
Energy Technology Centre  
Haanel Drive  
Ottawa, Ontario, Canada K1A 1M1  
Ph: (519) 947-4300  
Fx: (519) 995-7868  
Email: [gmurphy@nrcan.gc.ca](mailto:gmurphy@nrcan.gc.ca)  
URL: [cleanenergy.gc.ca/canada/index\\_e.asp](http://cleanenergy.gc.ca/canada/index_e.asp)

## **Source for Renewable Energy**

The Source for Renewable Energy is a global online marketplace for the renewable energy industry featuring more than 7,000 participating renewable energy businesses worldwide. Locate renewable energy businesses by geographic location, by product type, by business type and by name, or search for renewable energy businesses using keywords.

The Source for Renewable Energy  
Momentum Technologies LLC  
P.O. Box 460813  
Glendale Colorado Canada 80246  
Ph: 1-303-229-4841  
Fx: 1-408-705-2031  
Email: [info@mtt.com](mailto:info@mtt.com)  
URL: [energy.sourceguides.com/index.shtml](http://energy.sourceguides.com/index.shtml)

## **PROJECT APPROVALS**

### **Municipal Level Planning Laws**

Installation of renewable generation equipment may require a local building permit and will require an electrical safety inspection. Please contact your local government offices for information on building permits and compliance with local zoning by-laws.

Association of Municipalities of Ontario  
393 University Ave., Suite 1701  
Toronto, Ontario Canada M5G 1E6  
Ph : 1-877-426-6527  
Fx: (416) 971-6191  
Email: [amo@amo.on.ca](mailto:amo@amo.on.ca)  
URL: [199.202.235.157/ylg/ontario.html](http://199.202.235.157/ylg/ontario.html)

### **Electrical Safety Authority (ESA)**

Installation of renewable generation equipment will require an electrical safety inspection The Electrical Safety Authority (ESA) is responsible for all electrical safety inspections in Ontario.

Electrical Safety Authority (ESA)  
Customer Service Centre  
Ph: 1-877-421-2228  
URL: [www.esainspection.net](http://www.esainspection.net)

### **Connection to Local Distribution System**

Contact your local electricity distribution utility regarding the required electrical safety inspections and the requirements for proposed connections to the electricity distribution system.

Licensed Market Participants  
Ontario Energy Board  
P.O. Box 2319, 2300 Yonge Street  
Toronto, Ontario, Canada M4P 1E4  
Ph: 1-888-632-6273  
Fx: (416) 440-7656  
Email: [info@oeb.gov.on.ca](mailto:info@oeb.gov.on.ca)  
URL: [www.oeb.gov.on.ca](http://www.oeb.gov.on.ca)

### **Connection to Hydro One Networks**

In areas served by Hydro One Networks Inc., please contact your local office of Hydro One.

Customer Relations - Hydro One Networks Inc.  
185 Clegg Rd.  
Markham, Ontario L6G 1B7  
Ph: 1-888-664-9376  
URL: [www.hydroone.com](http://www.hydroone.com)

### **Provincial Connection Standards**

The Ontario Energy Board recently produced common connection standards for distribution companies to follow. These rules, effective March 22, 2004, will facilitate renewable generation by ensuring that there are consistent connection procedures throughout the province.

Ontario Energy Board  
P.O. Box 2319, 2300 Yonge Street  
Toronto, Ontario, Canada M4P 1E4  
Ph: 1-888-632-6273  
Fx: (416) 440-7656  
Email: [info@oeb.gov.on.ca](mailto:info@oeb.gov.on.ca)  
URL: [www.oeb.gov.on.ca](http://www.oeb.gov.on.ca)  
(See *Industry Relations - Strategic Projects and Consultations - File #: RP-2003-0113*)

## **Environmental Assessment (EA) - Provincial**

The Ontario Ministry of the Environment (MOE) administers the guidelines for environmental assessment requirements for both public and private sector electricity projects in Ontario.

A "Guide to Environmental Assessment Requirements for Electricity Projects" is available from the MOE's website or by calling the Ministry's Public Information Centre. For detailed information on these environmental review and approval requirements, please contact your local District Office of the MOE.

Wind and waterpower projects in Ontario also require a Certificate of Approval under the Environmental Protection Act. MOE will also help proponents coordinate provincial and federal EA processes for waterpower projects which require joint federal-provincial EA reviews.

## **Environmental Assessment (EA) - Federal**

Renewable energy projects (public or private sector) which may have significant impacts on First Nations' lands, or on birds, wildlife, national parks, waterways, fisheries, telecommunications transmission and/or aviation, or which are sited on federal land or receive federal funding, are likely to be subject to federal Environmental Assessment and other environmental laws. Depending on the size, scope and location of the renewable energy project, the level of EA may range from a simple environmental "screening" to a full EA.

## **Project Licensing - Ontario Energy Board**

In Ontario, renewable energy projects which generate electricity for sale (wholesale or retail) must be licensed by the Ontario Energy Board (OEB). Generators who already have an OEB licence to generate electricity from other energy sources and who are interested in also generating electricity from new renewable energy generation projects will need to ask the OEB to amend the "Schedule of Facilities" which is appended to the generator's original licence, to include the new wind/solar/water generation facility.

## **Participating in the Electricity Market - Independent Electricity Market Operator (IMO)**

Renewable energy generation projects which have 1 MW or greater of installed capacity and which will be connected to Ontario's electricity transmission grid, must register with and adhere to market rules administered by Ontario's Independent Electricity Market Operator (IMO). Generators above 1 MW may apply to be designated as an "Intermittent Generator" whose electricity output will be accepted at all times by the IMO at Ontario's electricity spot market price.

Guide to Environmental Assessment Requirements for Electricity Projects  
Public Information Centre, Ministry of the Environment  
1st floor, 135 St. Clair Avenue West  
Toronto Ontario Canada M4V 1P5  
Ph: 1-800-565-4923  
Fx: n/a  
Email: [picemail@ene.gov.on.ca](mailto:picemail@ene.gov.on.ca)  
URL: [www.ene.gov.on.ca/envision/env\\_reg/er/documents/2000/electricity.htm#RA00E0005](http://www.ene.gov.on.ca/envision/env_reg/er/documents/2000/electricity.htm#RA00E0005)

*(Developers proposing large-scale wind energy projects should contact Ariane Heisey, Special Project Officer, EA and Approvals Branch, at (416) 314-7141 or [ariane.heisey@ene.gov.on.ca](mailto:ariane.heisey@ene.gov.on.ca).)*

Rob Dobos  
Planning and Assessment Centre for Inland Waters - Environment Canada  
P.O. Box 5050 867 Lakeshore Road  
Burlington Ontario Canada L7R 4A6  
Ph: 905-336-4953  
Fx: 905-336-8901  
Email: [ob.dobos@ec.gc.ca](mailto:ob.dobos@ec.gc.ca)  
URL: [www.nwri.ca/nwri-e.html](http://www.nwri.ca/nwri-e.html)

Licensing and Applications Branch  
Ontario Energy Board  
P.O. Box 2319 2300 Yonge Street  
Toronto Ontario Canada M4P 1E4  
Ph: 1-888-632-6273  
Fx: (416) 440-7656  
Email: [info@oeb.gov.on.ca](mailto:info@oeb.gov.on.ca)  
URL: [www.oeb.gov.on.ca](http://www.oeb.gov.on.ca)

Participating in the IMO-Administered Markets  
Independent Electricity Market Operator  
655 Bay Street, Suite 410  
Toronto Ontario Canada M5G 2K4  
Ph: 1-888-448-7777  
Fx: (905) 403-6921  
Email: [helpcentre@theIMO.com](mailto:helpcentre@theIMO.com)  
URL: [www.theimo.com](http://www.theimo.com)

## **ADDITIONAL WATERPOWER INFORMATION**

### **Ontario Waterpower Association**

The Ontario Waterpower Association is an industry-based organization which promotes “the responsible growth of the waterpower industry in the province”. The Association will be able to direct potential waterpower developers to private-sector organizations willing to help evaluate and finance projects.

Paul Norris  
President  
Ontario Waterpower Association  
380 Armour Road Suite 110  
Peterborough Ontario K9H 7L7  
Ph: 1-866-743-1500  
Fx: (705) 743-1570  
Email: [pnorris@owa.ca](mailto:pnorris@owa.ca)  
URL: [www.owa.ca](http://www.owa.ca)

### **Water Management Planning Guidelines for Existing Waterpower Projects**

In 2002, MNR finalized new Water Management Planning Guidelines for existing waterpower projects. Approvals requirements for proposed projects will depend on the location, features and operations of the waterpower facility. Waterpower development generally involves Crown land under the administration and control of the Ministry of Natural Resources (MNR). The disposition and development of potential waterpower sites is governed by the Lakes and Rivers Improvement Act and the Public Lands Act. Various other statutes and regulations administered by provincial and federal agencies also govern waterpower development such as the Ontario Environmental Assessment Act and the federal Fisheries Act.

Water Management Planning Guidelines for Existing Waterpower Projects  
Lands and Waters Branch Ministry of Natural Resources  
300 Water Street n/a  
Peterborough Ontario K9J 8M5  
Ph: (705) 755-1204  
Fx: n/a  
Email: n/a  
URL: [www.mnr.gov.on.ca/MNR/waterpower](http://www.mnr.gov.on.ca/MNR/waterpower)

### **New Site Release and Development Review Policy for Waterpower**

The New Site Release and Development Review Policy for Waterpower is currently being developed by the Ministry of Natural Resources. The policy will establish a framework for managing Ontario’s waterpower resources to provide maximum benefits for all users, and supports the development of new waterpower energy through the disposition of existing Crown owned structure opportunities and Greenfield opportunities on Crown land.. A draft version is posted on the Environmental Bill of Rights Registry at:  
[204.40.253.254/envregistry/022737ep.htm](http://204.40.253.254/envregistry/022737ep.htm)

Rob Messervey  
Waterpower Project Water Resources, Ministry of Natural Resources  
4<sup>th</sup> Floor N. Robinson Place 300 Water St.  
Peterborough Ontario Canada K9J 3C7  
Ph: (705) 755-1278  
Fx: (705) 755-1524  
Email: n/a  
URL:  
[www.mnr.gov.on.ca/mnr/csb/news/2004/mar31fs%5F04.html](http://www.mnr.gov.on.ca/mnr/csb/news/2004/mar31fs%5F04.html)

## **ADDITIONAL WIND ENERGY INFORMATION**

### **Canadian Wind Energy Association (CanWEA)**

The Canadian Wind Energy Association supports the development of wind energy in Canada. CanWEA provides the most up to date information about the wind energy industry in Canada, and can provide prospective wind energy developers with the names of private consultants to conduct detailed wind resource assessments for specific project sites.

Robert Hornung  
President  
Canadian Wind Energy Association  
Suite 750 130 Slater Street  
Ottawa Ontario Canada K1P 6E2  
Ph: 1-800-922-6932  
Fx: (613) 594-8705  
Email: [info@canwea.ca](mailto:info@canwea.ca)  
URL: [www.canwea.ca](http://www.canwea.ca)

### **Wind Energy InfoSheet**

The Ministry Of Municipal Affairs And Housing and the Ministry Of Energy have jointly published a new "*Wind Energy InfoSheet*". The goal of the publication is to help educate communities on the potential local and other benefits of wind energy development in Ontario. The brochure includes a description of the municipal planning approvals process for wind energy projects proposed on private land in Ontario municipalities. The brochure is available on both Ministry's web-sites.

Wind Energy InfoSheet  
Ministry of Energy  
900 Bay Street, 4th Floor Hearst Block  
Toronto Ontario Canada M7A 2E1  
Ph: 1-888-668-4636  
Fx: n/a  
Email: [write2us@energy.gov.on.ca](mailto:write2us@energy.gov.on.ca)  
URL: [www.energy.gov.on.ca](http://www.energy.gov.on.ca)

### **Electricity Generation Using Small Wind Turbines At Your Home Or Farm**

The Ontario Ministry Of Agriculture and Food (OMAF) has published a new "*Electricity Generation Using Small Wind Turbines At Your Home Or Farm*" info-sheet. The publication provides information on factors that could make a small wind energy system a practical and economical source of electricity for your home or farm.

For additional information on farm energy use, please visit OMAF's Engineering webpage.

Electricity Generation Using Small Wind Turbines At Your Home Or Farm  
Ministry of Agriculture and Food  
1 Stone Road West  
Guelph Ontario Canada N1G 4Y2  
Ph: 1-888-466-2372  
Fx: n/a  
Email: [ag.info@omaf.gov.on.ca](mailto:ag.info@omaf.gov.on.ca)  
URL: [www.gov.on.ca/OMAFRA/english/engineer/facts/03-047.htm](http://www.gov.on.ca/OMAFRA/english/engineer/facts/03-047.htm)

### **Ontario Wind Power Task Force**

An industry-led Ontario Wind Power Task Force met during 2001 to identify opportunities for greater wind energy development in Ontario. The "Final Task Force Report and Recommendations" was completed in October, 2001.

David Boileau  
President  
Seine River Power/Harmony Wind  
P.O. Box 1747  
Atikokan Ontario P0T 1C0  
Ph: (807) 597-4368  
Fx: (807) 597-6127  
Email: [dboileau@nwon.com](mailto:dboileau@nwon.com)  
URL: [www.newenergy.org/Wind\\_Power\\_Task\\_Force\\_Report,\\_February\\_2002.pdf](http://www.newenergy.org/Wind_Power_Task_Force_Report,_February_2002.pdf)

### **Wind Power Production Incentive (WPPI)**

The December 2001 federal budget announced a federal Wind Power Production Incentive for electricity produced from qualifying large-scale wind energy generation projects (minimum nameplate capacity of 500 kW; in northern and remote locations, minimum capacity is 20 kW).

An initial incentive payment of 1.2 cents per kilowatt-hour of production, gradually declining to 0.8 cents per kilowatt-hour of production, was introduced for eligible projects commissioned between April 1, 2002 and March 31, 2007. The incentive is available for the first ten years of production. Projects receiving the federal WPPI may not qualify to receive other federal incentives.

### **Wind Energy Resource Assessment - Federal - Natural Resources Canada**

In 2002, Natural Resources Canada (NRCan) commissioned a private company to do new wind resource assessments in southwestern and southeastern Ontario. The studies used wind speed data from existing meteorological stations plus a few new wind test towers. The data was converted by computer software to develop estimated wind speeds at a height of 30 metres. The data provide isotachs (lines on a map or chart connecting points of equal wind velocity) and a computer printout of information which is the equivalent of a topographic contours map. However, the data does not reference individual communities nor do they provide information on surface roughness (e.g., location of trees, etc.). Developers will still need to do a detailed wind resource assessment for individual project locations.

### **Wind Energy Resource Assessment - Provincial - Ontario Ministry of Natural Resources**

Secondary data, which may be helpful in wind resource assessment, is available in the databases of the Ontario Ministry of Natural Resources (MNR).

### **Wind Power Development on Crown Land**

Commercial scale wind farms have the potential to occupy large areas of Crown land including the beds of the Great Lakes. The Ministry of Natural Resources (MNR) has developed a policy and procedure for the disposition of wind power development on Crown land. The policy sets out a process that the ministry and wind power developers must follow when Crown land is explored and developed. It provides a set of rules and procedures that will protect the natural environment and the interests of the Ontario public. The policy is specific to Crown land and primarily addresses the process of allocation, tenure, pricing and environmental assessment review.

Wind Power Production Incentive  
Office of Energy Efficiency Natural Resources  
Canada  
580 Booth St. 20th Floor  
Ottawa Ontario Canada K1A 0E4  
Ph: 1-877-722-6600  
Fx: (613) 995-0373  
E-mail: [wppi@nrcan.gc.ca](mailto:wppi@nrcan.gc.ca)  
URL: [www.reed.nrcan.gc.ca](http://www.reed.nrcan.gc.ca)

Frank Neitzert  
Senior Advisor  
Wind Energy Research and Development, Natural  
Resources Canada  
580 Booth St. 13<sup>th</sup> Floor  
Ottawa Ontario Canada K1A 0E4  
Ph: (613) 996-9416  
Fx: (613) 943-0666  
E-mail: [frank.neitzert@nrcan.gc.ca](mailto:frank.neitzert@nrcan.gc.ca)  
URL: [www.canren.gc.ca/resou\\_asse/index.asp?CalD=56&PgID=451](http://www.canren.gc.ca/resou_asse/index.asp?CalD=56&PgID=451)

*(Raw data on wind speeds may also be available from Environment Canada's Meteorological Service. Please contact Dave Broadhurst at (416) 739-4291.)*

Lands and Waters Branch  
Ministry of Natural Resources  
300 Water St.  
Peterborough Ontario K9J 8M5  
Ph: 1-800-667-1940  
Fx: n/a Email: n/a  
URL: [www.mnr.gov.on.ca/mnr/windpower/index.html](http://www.mnr.gov.on.ca/mnr/windpower/index.html)

Lands and Waters Branch  
Ministry of Natural Resources  
300 Water Street n/a  
Peterborough Ontario K9J 8M5  
Ph: (705) 755-1204  
Fx: n/a  
Email: n/a  
URL: [www.mnr.gov.on.ca/mnr/windpower/role.html](http://www.mnr.gov.on.ca/mnr/windpower/role.html)

*(The Wind Power Development on Crown Land Decision notice is posted on the Environmental Bill of Rights Registry at: [www.ene.gov.on.ca/envregistry/020073ep.htm](http://www.ene.gov.on.ca/envregistry/020073ep.htm))*

## **ADDITIONAL SOLAR ENERGY INFORMATION**

### **Canadian Solar Industries Association**

The Canadian Solar Industries Association (CanSIA) is an industry-based organization which promotes solar energy products and services. CanSIA members are bound by a Code of Ethics.

Rob McMonagle - Marketing Director  
Canadian Solar Industries Association  
2378 Holly Lane Suite 208  
Ottawa Ontario Canada K1V 7P1  
Ph: 1-866-522-6742  
Fx: 1-866-226-7429  
Email: [info@CanSIA.ca](mailto:info@CanSIA.ca)  
URL: [www.cansia.ca](http://www.cansia.ca)

### **Solar Energy Society of Canada (SESCI)**

The Solar Energy Society of Canada Inc. is a non-profit organization which advances the awareness, understanding and use of solar energy in Canada.

Solar Energy Society of Canada Inc.  
P.O. Box 33047 Cathedral P.O.  
Regina Saskatchewan Canada S4T 7X2  
Ph: (519) 451-3600  
Fx: n/a  
E-mail: [info@solarenergysociety.ca](mailto:info@solarenergysociety.ca)  
URL: [www.solarenergysociety.ca](http://www.solarenergysociety.ca)

## **ADDITIONAL EARTH ENERGY INFORMATION**

### **Canadian Association for Renewable Energies - GreenHeat Partnership**

The Canadian Association for Renewable Energies is a non-profit association promoting feasible applications of renewable energies. The Association publishes the 2003 Canadian Renewable Energies Directory, a comprehensive directory of renewable energy suppliers in Canada. The GreenHeat Partnership comprises a growing number of associations and companies that support the use of renewable energies for space conditioning and water heating.

GreenHeat Partnership  
Canadian Association for Renewable Energies  
435 Brennan  
Ottawa, Ontario Canada K1Z 6J9  
Ph: (613) 728-0822  
Fx: (613) 728-2505  
Email: [eggertson@renewables.ca](mailto:eggertson@renewables.ca)  
URL: [www.renewables.ca](http://www.renewables.ca)

### **Earth Energy Society of Canada**

The Society was established to promote the use of ground-coupled heat pumps in Canada. Its members include industry manufacturers and installers, as well as electric utilities, engineers, architects and others.

Bill Eggertson  
Earth Energy Society of Canada  
124 O'Connor Suite 504  
Ottawa Ontario Canada K1P 5M9  
Ph: (613) 371-3372  
Fx: (613) 822-4987  
Email: [Eggertson@EarthEnergy.ca](mailto:Eggertson@EarthEnergy.ca)  
URL: [www.EarthEnergy.ca](http://www.EarthEnergy.ca) ([imby.org](http://imby.org))

## **ADDITIONAL BIOMASS INFORMATION**

### **Canadian Bioenergy Association (CANBIO)**

CANBIO is a national, industry-driven, non-profit organization of individuals, businesses and non-governmental organizations interested in the development, promotion and use of bioenergy. Their mission is to promote industry and public support for increasing awareness, development and use of biomass energy.

Jim Richardson - Director  
Canadian Bioenergy Association (CANBIO)  
3330 White Oak Road  
London Ontario Canada N6E 1L8  
Ph: (519) 686-8895  
Fx: (519) 686-1132  
Email: [info@canbio.ca](mailto:info@canbio.ca)  
URL: [www.canbio.ca](http://www.canbio.ca)

## **COMMUNITY-BASED RENEWABLE ENERGY DEVELOPMENT INFORMATION**

### **Ontario Sustainable Energy Association (OSEA)**

OSEA is an umbrella association of individuals and groups working to develop sustainable energy projects in their communities. OSEA runs "Community Green Energy Workshops" around Ontario to help participants understand and identify opportunities for development of local green energy projects.

Paul Gipe  
Executive Director  
Ontario Sustainable Energy Association  
401 Richmond Street West Suite 401  
Toronto Ontario Canada M5V 3A8  
Ph: 416-977-4441  
Fx: 416-977-7411  
Email: [info@ontario-sea.org](mailto:info@ontario-sea.org)  
URL: [www.ontario-sea.org](http://www.ontario-sea.org)

### **WindFall Eco-Works**

WindFall Eco-Works is a York Region based non-profit, multi-partner, environmental organization. The group's future plans include the development community-based renewable energy generation projects.

Brent Kopperson  
WindFall Ecology Centre  
500 Water Street  
Newmarket Ontario L3Y 1M5  
Ph: 1-866-280-4431  
Fx: 905-953-5107  
Email: [info@windfallecoworks.com](mailto:info@windfallecoworks.com)  
URL: [www.windfallecoworks.com](http://www.windfallecoworks.com)

### **Hearthmakers Energy Co-operative**

The group recently received \$55,000 in federal start-up funding under Agriculture and Agri-Food Canada's "Canadian Agricultural Rural Communities Initiative" to study the possibility of developing community-based renewable (wind) energy on Wolfe Island near Kingston.

Hearthmakers Energy Co-operative  
99 York Street  
Kingston Ontario Canada K7K 1P9  
Email: [hearthmakers@care2.com](mailto:hearthmakers@care2.com)  
Ph: 1-866-547-8122  
Fx: (613) 547-4228  
URL: [www.hearthmakers.com](http://www.hearthmakers.com)

### **Positive Power Co-operative Inc.**

The Co-operative is aiming to develop community-based wind energy in Hamilton - Halton - Haldimand.

Curt Hammond  
Chair  
Positive Power Co-operative Inc.  
14 Woodward Avenue  
Dundas Ontario Canada L9H 4J5  
Ph: (905) 971-5366  
Fx: (905) 971-0963  
Email: [info@positivepowerco-op.com](mailto:info@positivepowerco-op.com)  
URL: [www.positivepowerco-op.com](http://www.positivepowerco-op.com)

### **Grey Bruce Renewable Energy Co-op**

A not-for-profit community cooperative corporation currently involved in helping to finance local large-scale wind energy turbines through the sale of "Green Tags" (each "Green Tag" supports the development of one MWh of wind power).

Green Tags Ontario  
Grey Bruce Renewable Energy Co-operative  
Box 593  
Owen Sound Ontario Canada N4K 5R4  
Ph: 1-866-546-8414  
Fx: n/a  
Email: [gbrec@greentagsontario.com](mailto:gbrec@greentagsontario.com)  
URL: [www.greentagsontario.com](http://www.greentagsontario.com)

### **Private Power Magazine**

An Ontario-based publication providing information to people interested in producing their own electricity from small-scale renewable energy generation.

Private Power Magazine  
Warren Publishing Co. Ltd.  
330 Guelph Street Unit #8  
Georgetown Ontario Canada L7G 4B5  
Ph: 1-800-668-7788  
Fx: 1-800-265-1140  
Email: [order@farmersfinder.com](mailto:order@farmersfinder.com)  
URL: n/a

### **Toronto Renewable Energy Co-operative**

TREC, in partnership with Toronto Hydro Energy Services, is leading a community initiative, Windshare, to develop wind turbines on Toronto's waterfront. The first wind turbine began operating in February, 2003.

Dave Timm  
Toronto Renewable Energy Co-operative  
401 Richmond Street West Suite 401  
Toronto Ontario Canada M5V 3A8  
Ph: (416) 977-5093  
Fx: (416) 977-2157  
Email: [dtimm@trec.on.ca](mailto:dtimm@trec.on.ca)  
URL: [www.windshare.ca](http://www.windshare.ca)

### **Citizens For Renewable Energy**

Provides a source of the latest information on clean energy through our quarterly newsletters and through periodic workshops.

S. (Ziggy) Kleinau  
Co-ordinator  
Citizens For Renewable Energy  
R.R. #4,  
Lion's Head Ontario Canada N0H 1W0  
Ph: (519) 795-7725  
Fx: (519) 795-7725  
Email: [cfre@web.ca](mailto:cfre@web.ca)  
URL: [www.web.net/~cfre/index.html](http://www.web.net/~cfre/index.html)