
From: Chad Warren [REDACTED]
Sent: Wednesday, February 05, 2014 3:52 PM
To: NL Public Utilities Board
Subject: Investigation and Hearing into Supply Issues and Power Outages on the Island Interconnected System

Chair and Members of the board,

I would like to submit the following item of concern, in regard to the power outages in early January 2014.

1) I ask the board to review the disallowance of net metering in the province to help reduce the overall load demand on our interconnected system.

During the rolling blackouts and full blackouts the interconnected system could not meet the electric demands of the people of this province. There are two sides of the same coin, to explain this. First, there wasn't enough generated power to meet the demand of the people and second, there was too much demand by the people for the amount of power generated.

The second point is the point I ask the board to add into their review of the events in early January. In this province you are either on the power grid taking 100% of your power needs from the system or you are 100% off the grid and rely on your own generation and storage for your needs. There are no policies in place for the people of this province to generate power via solar or wind and back feed it into the grid and then pull from the grid as needed.

Our company, Canadian Energy, an industry leader across Canada when it comes to renewable energy, and I can tell you with confidence that our province is the only one that doesn't have a program in place. Net metering isn't an option to the citizens of NL while their counterparts across Canada are offered this as an option.

By allowing net metering each citizen or business would have the option to generate power to meet their needs, thereby reducing the overall load demand on the entire system. Here is a sample of other programs and incentives across Canada;

**Alberta Consumer Incentives
Micro-Generation Regulation**

On February 1, 2008 the Government of Alberta issued the Micro-Generation Regulation. This regulation allows Albertans to generate their own environmentally friendly electricity and receive credit for any power they send into the electricity grid.

For more information visit the Alberta Utilities Commission (<http://www.auc.ab.ca/rule-development/micro-generation/Pages/default.aspx>)

Alberta Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

British Columbia Solar Incentives

Solar Hot Water Incentives

Solar BC offers a number of different incentive options for residential solar hot water heating. For more information visit Solar BC (<http://www.solarbc.ca/learn/incentives-costs>)

Incentive for Institutional Solar Hot Water Installations

The SolarBC Institutional Incentive is part of the SolarBC Program which is funded by the Government of British Columbia, and is delivered in cooperation with Natural Resources Canada's (NRCan) federal ecoENERGY for Renewable Heat program. This collaboration provides a one-stop service to B.C. applicants who plan to install a qualifying solar water system at an eligible property.

For more information visit NRCan (<http://www.ecoaction.gc.ca/ecoenergy-ecoenergie/heat-chauffage/bc-sbcii-isbsi-eng.cfm>)

Energy Conservation Sales Tax Exemptions

The Province of BC provides provincial sales tax (PST) exemptions on renewable energy equipment including solar energy equipment.

For more information visit the BC Ministry of Finance

(http://www.sbr.gov.bc.ca/business/Consumer_Taxes/Provincial_Sales_Tax/energy_conservation_exemptions.htm).

Standing Offer Program

BC Hydro implemented a Standing Offer Program to encourage the development of small and clean energy projects throughout British Columbia. The program is a process to purchase energy from small projects with a nameplate capacity greater than 0.05 megawatts but not more than 10 megawatts.

For more information visit BC Hydro

(http://www.bchydro.com/planning_regulatory/acquiring_power/standing_offer_program.html).

BC Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

Manitoba Solar Incentives

Solar Hot Water Program

Manitoba Hydro offers solar hot water incentives to eligible home owners. For more information visit Manitoba Hydro (http://www.hydro.mb.ca/your_home/solar_water_heating/index.shtml).

Net Metering Program

Contact Manitoba Hydro (<http://www.hydro.mb.ca/index.shtml>) to learn more about Net Metering.

Manitoba Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

New Brunswick Solar Incentives

Efficiency NB

The Province of New Brunswick offers a number of energy efficiency incentives and may pertain to solar energy installations, including residential, commercial, industrial and community projects. For more information visit Efficiency NB (<http://www.energycnb.ca/enb/home.jsp>).

NB Power Net Metering Program

NB Power has created a Net Metering Program which allows distributed renewable energy projects to connect to the electrical grid system. For more information visit NB Power.

New Brunswick Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

The Province of Newfoundland Labrador currently has no solar incentives.

Energy Efficiency Incentive Program (EEIP)

This program provides up to a 50% rebate to residents for new energy efficient products in addition to other energy efficiency incentives.

Newfoundland Labrador Solar Incentives

Northwest Territories Solar Incentives

For more information visit the Government of Northwest Territories (http://www.enr.gov.nt.ca/_live/pages/wpPages/EEIP.aspx)

Alternative Energy Technologies Program

The Alternative Energy Technologies Program (AETP) is designed to promote the use of renewable energy sources in the NWT. The funding is split into three sections:

1. Community Renewable Energy Fund (CREF)
2. Medium Renewable Energy Fund (MREF)
3. Small Renewable Energy Fund (SREF)

For more information visit the Government of Northwest Territories (http://www.enr.gov.nt.ca/_live/pages/wpPages/aetp.aspx)

Nova Scotia Solar Incentives

Commercial/Industrial Solar Hot Water & Solar Hot Air Rebate

Conserve Nova Scotia provides a 15 % rebate of the installed cost of a solar water heating system for institutional, industrial or commercial use. The maximum provincial rebate is \$20,000. Also, Conserve Nova Scotia provides a 15 % rebate of the installed cost of a solar air heating system for institutional, industrial or commercial use. The maximum provincial rebate is \$20,000.

For further information please visit the (<http://www.conservens.ca/for-your-business/>).

Residential Solar Hot Water Heating Program

Homeowners that take part in this program will have opportunity to receive a 15% rebate up to \$20,000. There is also an opportunity to be eligible for Federal solar incentives under this program.

For more information visit Conserve NS (<http://www.conservens.ca/rebates/solar-hot-water-heating.asp>).

Residential Solar Air Rebate

Conserve Nova Scotia provides a 15 % rebate of the installed cost of a solar air heating system for residential use. The maximum provincial rebate is \$20,000. There is also an opportunity to be eligible for Federal solar incentives under this program.

For further information please visit the Conserve NS (<http://www.conservens.ca/rebates/solar-air-heating.asp>).

Nova Scotia Power Net Metering Program

To provide more options when it comes to renewable energy, Nova Scotia Power has launched a new program called "Net Metering". Residential and commercial customers are now able to connect small renewable energy generating units (100 kilowatts or less) to Nova Scotia Power's electrical grid.

The program provides Nova Scotians with a risk free way of meeting their own energy needs from renewable sources while still having the security of being able to draw from the provincial power grid when needed.

For further information please visit the Government of Nova Scotia (<http://www.gov.ns.ca/energy/electricity/net-metering.asp>).

Nova Scotia Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

Nunavut Solar Incentives

Nunavut Energy Retrofit Program

The Government of Nunavut offers a variety of Energy Retrofit Programs. For information visit them on their website (<http://cgs.gov.nu.ca/en/energy-services/nerp>)

Ontario Solar Incentives

Feed in Tariff (FIT) Program

This program pays solar energy producers a rate of 44.3 cents to 80.2 cents per kilowatt hour for grid tied solar power over a contract life of 20 years for projects under 10 megawatts.

For more information contact your local electrical distribution company for details and the Ontario Power Authority. (<http://fit.powerauthority.on.ca/>)

Home Energy Savings Program

To help homeowners save energy, save money and help reduce greenhouse gas emissions, the Ontario government has created the Ontario Home Energy Savings Program. More than \$2500 in available Federal and Provincial incentives is available for the installation of a solar domestic hot water system.

For more information visit the Government of Ontario.
(<http://www.mei.gov.on.ca/en/energy/conservation/homeenergyon/>)

Ontario Solar Thermal Heating Initiative (OSTHI)

This initiative complements the existing Federal ecoENERGY Renewable Heat Program for institutional, commercial and industrial projects. The program allows eligible project

For more information visit NRCan. (<http://www.ecoaction.gc.ca/ecoenergy-ecoenergie/heat-chauffage/on-osthi-ioscst-eng.cfm>)

Net Metering Program

Electricity consumers in Ontario who produce some of their own power may take advantage of “net metering”, an initiative of the Ministry of Energy. Net metering allows you to send electricity you generate from renewable sources to the distribution system for a credit toward your energy costs. In essence, it’s a “trade” of electricity you supply against electricity you consume.

For more information please visit the Government of Ontario
(<http://www.mei.gov.on.ca/en/pdf/renewable/NetMeteringBrochure.pdf>) and contact your local electrical utility company.

Electricity Retrofit Incentive Program (Commercial)

The Ontario Power Authority (OPA) through the Every Kilowatt Counts initiative has developed a commercial incentive program. Commercial building owners/tenants can retrofit their building with solar hot water heaters and other electricity saving equipment and receive a rebate from the OPA. For more information visit the OPA and the Electricity Retrofit Incentive Program.

Ontario Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

Prince Edward Island Solar Incentives

Office of Energy Efficiency

The Government of PEI provides a number of energy efficiency incentives through their Office of Energy Efficiency. For more information visit the PEI Office of Energy Efficiency.

Sales Tax Exemption

There is a Provincial Sales Tax (PST) exemption on small-scale renewable energy equipment. Items which are exempt from provincial sales tax include solar thermal and solar photovoltaic systems.

For more information please visit the PEI Office of Energy Efficiency.

Net Metering

Newly established Net-Metering System Regulations make it more steam lined for Island homeowners, small businesses or farmers who have an interest in generating their own electricity to install small-scale generating systems (100 kilowatts or less).

For more information please visit the Maritime Electric
(http://www.maritimeelectric.com/environment/env_energy.asp).

Minimum Purchase Price Regulations

The Minimum Purchase Price Regulations establish the price which utilities must pay for power produced by large-scale renewable energy generators – that is those capable of producing more than 100 kilowatts of energy. The rate has been set at 7.75 cents per kilowatt hour with 5.75 cents of that as a fixed rate and 2.0 cents as a variable rate.

Solar photovoltaic systems are eligible under this regulation.

For more information please visit the PEI Government. (<http://www.irc.ca/document.asp?file=legislation/RenewableEnergyActMinimumPurchasePriceRegulations.asp>)

Quebec Solar Incentives

Energy Efficiency Programs

The Province of Quebec does not have any specific solar incentives however you can visit l'Agence de l'efficacité énergétique (www.aee.gouv.qc.ca/index.jsp) for energy efficiency information.

For additional information on energy efficiency programs and incentives please visit Hydro Québec website (www.hydroquebec.com)

Net Metering Program

Hydro Québec has a net metering option which allows households or entities to feed surplus power generated from distributed systems, such as solar PV systems, into the grid. For more information visit www.hydroquebec.com/autoproduction/en/mesurage_net.html

Quebec Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

Saskatchewan Solar Incentives

Energy Star Rebate for New Homes

Saskatchewan residents who build or purchase a newly constructed ENERGY STAR qualified or R-2000 home between after April 1, 2007 are now eligible to receive a number of rebates, including a \$1,000 rebate for the installation of a solar domestic hot water heating system.

For more information please visit SaskEnergy. (www.saskenergy.com/saving_energy/energystarnewhomes.asp)

EnerGuide for Houses Program

The Government of Saskatchewan has extended and enhanced the Saskatchewan EnerGuide for Houses retrofit grant program until March 31, 2011. Individuals who qualify under this new program also qualify for the Federal ecoENERGY Retrofit.

For more information please visit SaskEnergy. (www.saskenergy.com/saving_energy/energiguide.asp)

SaskPower Net Metering Rebate

Net metering offers SaskPower customers the opportunity to generate their own grid-connected power using environmentally-preferred technology up to 100 kW of nominal (nameplate) generating capacity.

SaskPower's Net Metering Rebate is available to SaskPower, Saskatoon Light & Power and City of Swift Current net metering customers for a one-time capital incentive equivalent to 20% of eligible costs (equipment and installation) for customers' environmentally-preferred generation systems to a maximum rebate payment of \$20,000 per net metering account. All Net Metering Rebate information and customer application forms are available on the SaskPower website.

Applications for the SaskPower Net Metering Rebate will be accepted by SaskPower, Customer Programs until **November 30, 2014**.

For more information please visit SaskPower. (<http://www.saskpower.com/efficiency-programs-and-tips/generate-and-move-your-power/net-metering-program/net-metering-rebate/>)

Solar Heating Initiative for Today (SHIFT)

The SHIFT program provides funding for new solar water heating systems to large, non-residential consumers of hot water in Saskatchewan. The program is available for businesses, industries, multiple-unit residential buildings over three stories, public institutions such as hospitals and schools, and municipal and provincial facilities. The SHIFT incentive matches the ecoENERGY for Renewable Heat incentive level combining to provide up to \$80,000 on eligible project costs.

For more information please visit NRCan (<http://ecoaction.gc.ca/ecoenergy-ecoenergie/heat-chauffage/sk-shift-eng.cfm>)

Saskatchewan Solar Companies and Organizations

For more information on solar companies and organizations visit the Member Industry Directory

Yukon Solar Incentives

Good Energy Program

The Government of Yukon does offers energy efficiency incentives and offers a \$500 rebate for the installation of a qualified solar hot water heating system through its Good Energy Program. This program is also tied to the Federal ecoEnergy Retrofit Program.

For more information visit the Yukon Government (<http://www.esc.gov.yk.ca/programs.html>).

Chad Warren



CANADIAN ENERGY

