

Introduction

The ecoNova Scotia for Clean Air and Climate Change (formerly known as the “Nova Scotia EcoTrust”) supports air emissions reducing projects through two programs that are open to application: the Environmental Technology Program and the Municipal Program. To learn more, visit www.gov.ns.ca/ecoNovaScotia

Update

- To date **39 projects** have been supported with **\$4.6 million** in grants; resulting in over \$13 million in project costs
- GHG emissions expected to be reduced by over **58,672 tonnes/yr** and air pollutants by over **231,579 kg/yr**

Funding Rounds 2 & 3 Results

The following projects will be supported through the ecoNova Scotia programs:

ENVIRONMENTAL TECHNOLOGY PROGRAM	MUNICIPAL PROGRAM
<p>Carbon Sense Solutions Inc. & Shaw Brick Will demonstrate technology that captures flue emissions (greenhouse gases and air pollutants) and store it in preformed concrete products. The process is also expected to improve the final product as well as reduce energy and water consumption. <i>ETP Grant: \$141, 718 Project Costs: \$344,831</i> <i>Emissions reductions: 20,000 tonnes/GHG/year if adopted throughout NS</i></p> <p>Eon WindElectric Ltd. Will design, develop and test a cost-effective residential wind turbine using readily available, off-the-shelf, robust components. Testing will be conducted to confirm efficiency. <i>ETP Grant: \$73,317 Project Costs: \$152,633</i> <i>Emissions reductions: 488 tonnes/GHG/year on projected sales of 300 units in NS</i></p> <p>Scotian Windfields Inc. Will demonstrate renewable energy battery storage systems in Nova Scotia as part of a larger wind project. <i>ETP Grant: \$ 350,000 Project Costs: \$ 1,770,000</i> <i>Emissions reductions: 425 tonnes/GHG/year; 6700 kg/SO₂/yr; 1350 kg/NO_x/yr</i></p>	<p>Annapolis County, Town of Bridgewater, Municipality of Cumberland, Municipality of Lunenburg, Town of Lunenburg, Town of Mulgrave, Pictou County, Town of Pictou, Town of Westville, Town of Yarmouth These 10 municipal units will complete an inventory of energy and air emissions directly attributed to municipal operations. They will also complete an audit of their operations which will identify opportunities to reduce energy use and emissions.</p> <p>Antigonish Municipality Will obtain a septage/sludge de-watering truck as part of an initiative to reduce diesel consumption from waste transportation, and eliminate methane emissions from septage lagoons. <i>MP Grant: \$150,000 Project Costs: \$300,000</i> <i>Emissions reductions: 157 tonnes/GHG/year; 81 kg/SO₂/yr; 1238 kg/NO_x/yr</i></p> <p>Town of Berwick Will install ‘energy monitors’ at 200 homes to demonstrate how understanding energy consumption (seeing real time usage) can lead to reductions. <i>MP Grant: \$64,000 Project Costs: \$147,500</i> <i>Emissions reductions: 2100 tonnes/GHG/year</i></p>

Funding Rounds 2 and 3: Results (continued)

SF Rendering

Will develop, test and market a grass-based pellet for use in residential and commercial boilers/stoves.

ETP Grant: \$ 142,057

Project Costs: \$ 284,114

Emissions reductions: 160 tonnes/GHG/year; 1718 kg/SO₂/yr; 420 kg/NO_x/yr

South Shore Fieldhouse Society

Will implement innovative design and heating/cooling/air circulation technologies at a new multi-sport fieldhouse serving South Shore Nova Scotia.

ETP Grant: \$ 160,000

Project Costs: \$ 514,903

Emissions reductions: 160 tonnes/GHG/year; 1718 kg/SO₂/yr; 420 kg/NO_x/yr

Thermo Dynamics Ltd.

Will design, develop and test improvements to the existing solar thermal panel system manufactured in Burnside. These improvements are expected to lower the cost per unit and increase the panels' efficiency.

ETP Grant: \$ 81,000

Project Costs: \$ 178,000

Emissions reductions: 25000 tonnes/GHG/year; 1700000 kg/SO₂/yr; 38000 kg/NO_x/yr based on sales of 10,000 panels in NS by 2020

TROPE Design Research Ltd.

Will design, test and commercialize a new window unit for buildings that more efficiently transfers heat from warm to cool areas.

ETP Grant: \$ 189,559

Project Costs: \$ 1,312,174

Emissions reductions: 3450 tonnes/GHG/year based on sales of 3000 units in NS by 2020

Université Sainte-Anne

Will replace their old oil-fired heating system with a combined solar hot water and biomass based system, demonstrating how the two renewable energy systems can work together.

ETP Grant: \$ 614,000

Project Costs: \$ 1,928,000

Emissions reductions: 1331 tonnes/GHG/year; 38000 kg/SO₂/yr; 100 kg/NO_x/yr

Halifax Regional Municipality- Energy Efficiency Upgrades

Will implement a comprehensive program of energy efficiency upgrades to 11 HRM facilities, including 8 fire stations. Money saved from these upgrades will be banked to finance further energy efficiency projects.

MP Grant: \$550,000

Project Costs: \$1,400,000

Emissions reductions: 2366 tonnes/GHG/year; 4069 kg/SO₂/yr; 371 kg/NO_x/yr

Funding Round 1: Update

Round One ecoNova Scotia projects are well underway. These projects include:

MUNICIPAL PROGRAM

Town of New Glasgow

Has implemented a complement of energy efficiency upgrades to town facilities and a business assistance program for area businesses.

Halifax Regional Municipality

Will conduct deep energy retrofits to the Metro Transit building in Burnside and the Sackville Sports Stadium, as well as install solar hot water heaters at the Centennial Pool.

Municipality of Yarmouth

Has upgraded the construction of their new municipal administration building to include geothermal heating/cooling and other energy efficiency upgrades.

ENVIRONMENTAL TECHNOLOGY PROGRAM

Nova Scotia Federation of Agriculture

Has developed and implemented a farm energy audit program.

Parrsboro Metal Fabricators (Kerr Heating Products)

Will design and develop a commercial scale biomass boiler.

Windsor Curling Club

Has upgraded their new facility to include efficient ice-making technology and heat recovery.



Contact Information

For more information on the ecoNova Scotia Environmental Technology Program or Municipal Program please visit our website at www.gov.ns.ca/ecoNovaScotia or contact us at:

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