



ecoNova Scotia

FOR CLEAN AIR AND CLIMATE CHANGE

ecoNova Scotia for Clean Air and Climate Change (formerly known as EcoTrust) supports projects that reduce air emissions.

Projects and initiatives under ecoNova Scotia started rolling out in November, 2007 with the help of the Government of Canada. Support for projects will be available until March 31, 2011.

This report summarizes ecoNova Scotia's accomplishments so far. More detail can be found in the complete Annual Report, available at: www.gov.ns.ca/ecoNovaScotia.



Key accomplishments over the past year:

- 43 projects supported
- \$15.5 million committed
- \$54 million in projects costs leveraged
- Projected greenhouse gas emissions reductions of 161,000 tonnes/year¹
- Projected air pollutant reductions of 601,571 kg/year²
- This is the equivalent of taking 29,272³ cars off the road

ecoNova Scotia's projects will bring Nova Scotia 3.22% closer to its key goal:

Nova Scotia aims to reduce greenhouse gas emissions to 10% below 1990 levels by 2020.

We will need to eliminate about 5 million tonnes per year.

Every \$100 of ecoNova Scotia funds spent buys:

- Over 1.04 tonnes of GHG reductions each year
- Over 3.88 kg of air pollutant reductions per year
- Over \$350 in investment in Nova Scotia-based projects

These successes will be compounded over the next three years. As more projects are supported, more air emissions will be cut. Nova Scotia aims to have one of the cleanest, most sustainable environments in the world by 2020.

¹ By 2020

² Air pollutants include SO_x, NO_x, and PM

³ Based on EPA's assumption that the average car emits 5.5 tonnes/year: <http://www.epa.gov/OMS/climate/420f05004.htm>

ecoNova Scotia Success Stories:

CAPITAL HEALTH CONVERSION TO NATURAL GAS

Atlantic Canada's largest hospital complex will convert to natural gas from heavy oil with the support of ecoNova Scotia. This conversion created the 'anchor load' needed by the distribution company to bring natural gas to the Halifax peninsula. Now 229 other customers have also made the switch to cleaner energy, and many more will continue to do so in the coming years.

ecoNova Scotia Commitments

\$3.5 million

Total Project Costs

Up to \$6 million

Direct GHG Emissions Reductions

15,000 tonnes per year (projected)

Direct Air Pollutant Reductions

244,900 kg per year (projected)



Switching to natural gas will lower the hospital's carbon footprint and result in cleaner air in Halifax.

ENVIRONMENTAL TECHNOLOGY PROGRAM (ETP)

The ETP supports innovative projects that will usher in a new era of environmental technologies. Nova Scotia businesses, institutions and organizations can apply for grants of up to 50% of project costs.

ecoNova Scotia Commitments

\$2,094,333 in grants committed to 11 projects

Total Project Costs

Over \$7 million — all invested in Nova Scotia

Direct GHG Emissions Reductions

51,863 tonnes per year (projected)

Direct Air Pollutant Reductions

22,754 kg per year (projected)

Environmental Technology Program example:



Carbon Sense Solutions Inc. and Shaw Brick

Will demonstrate technology that captures air emissions in pre-formed concrete at Shaw Brick's manufacturing facility.

ecoNova Scotia Grant	\$141,718
Potential CO ₂ Emissions Reductions	20,000 t/yr.

MUNICIPAL PROGRAM (MP)

The MP supports projects initiated by Nova Scotia's 55 municipal units with grants of up to 50% of project costs.

ecoNova Scotia Commitments

\$2,501,266 in grants committed to 28 projects

Total Project Costs

Over \$5.5 million — all invested in Nova Scotian communities

Direct GHG Emissions Reductions

6,809 tonnes per year (projected)

Direct Air Pollutant Reductions

8,825 kg per year (projected)

Municipal Program example:



Halifax Regional Municipality (HRM) — Comprehensive Energy Efficiency Upgrade Project

HRM plans to complete sweeping energy efficiency upgrades to 11 of its facilities, including 8 fire stations, the police station, city hall, and the greenhouses at the famous Public Gardens. Measures to be incorporated include switching from oil to natural gas, lighting retrofits, insulation upgrades, etc. HRM will create an "energy-efficiency piggy-bank" to capture money these upgrades save, to invest in future energy saving projects.

ecoNova Scotia Commitments	\$550,000
GHG Emissions Reductions	2366 t/yr.
Air Pollutant Emissions Reductions	4440 kg/yr.

TIDAL ENERGY DEMONSTRATION PROJECT

ecoNova Scotia will support a project to demonstrate the viability of new tidal energy technology in the Bay of Fundy. If successful, tidal energy could supply as much as 10% of Nova Scotia's electricity needs.

ecoNova Scotia Commitment

\$5 million

Direct GHG Emissions Reductions

12,166 tonnes per year (projected)⁴

Approximate Costs for Facility Only

\$14 million

Direct Air Pollutant Reductions

8,825 kg per year (projected)

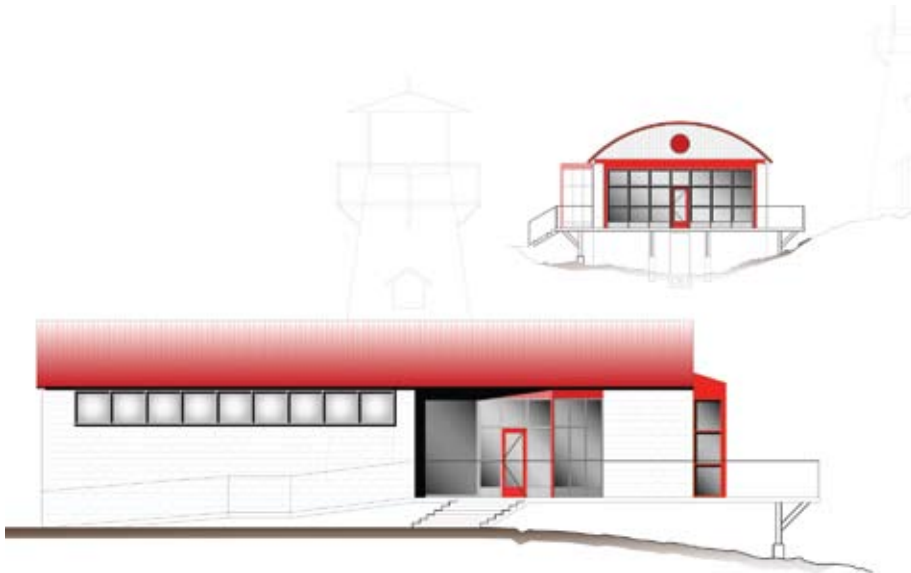


Illustration of the facility where the tidal energy project will be monitored.

Conclusion

ecoNova Scotia will continue to help Nova Scotia move towards a sustainable economy. Our successes of the past year will continue to benefit the province to 2020 and beyond — and we will build on these successes over the life of the program.

For more information on ecoNova Scotia and the projects it supports, please visit our web site:
www.gov.ns.ca/ecoNovaScotia

or contact us at:

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⁴ Based on technologies rated at a total of 4 MW and a capacity factor of 40%