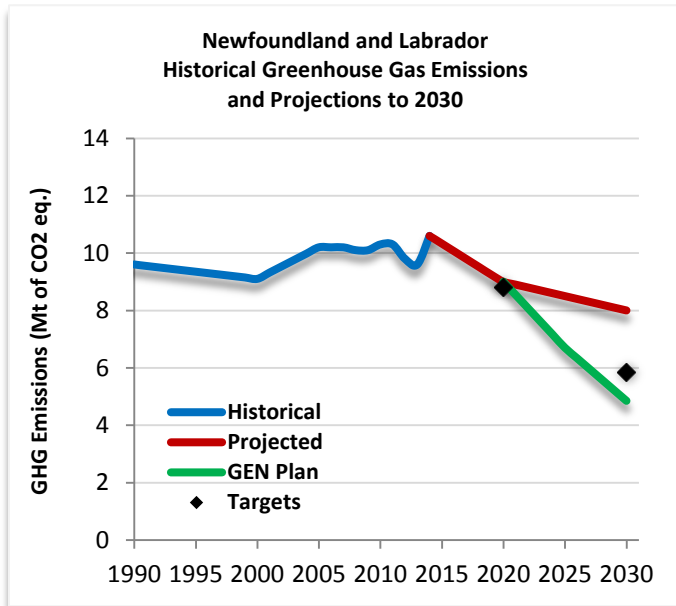


One Million Climate Jobs Challenge for Canada: 27,449 Climate Jobs in Newfoundland and Labrador

The Green Economy Network (GEN) has calculated that Newfoundland and Labrador could create 27,449 person-years of employment over a five-year period through a total public investment of \$2.02 billion in energy efficiency and conservation, renewable energy, and public transit. In addition, targeted public investment in these three priority areas will reduce Newfoundland and Labrador's annual greenhouse gas (GHG) emissions by up to 4.15 megatonnes (Mt). This action plan will help to transition the province to a lower-carbon economy, create a healthier environment, and strengthen communities, while reducing poverty and inequality.



Emissions

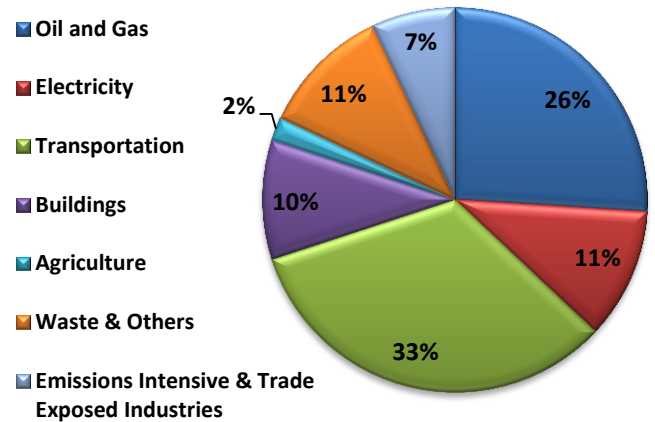
- Newfoundland and Labrador's total GHG emissions were 10.6 Mt in 2014, representing 1.4% of total national annual GHG emissions;
- While the province's contribution to national emissions is low, Newfoundland and Labrador has the fourth highest emissions per capita in Canada;
- Over 90% of Newfoundland and Labrador's population lives near the sea, facing exposure to many of the long-term impacts of climate change; and
- NL has committed to achieving GHG reduction targets of 10% below 1990 levels by 2020; and 35-45% below 1990 levels by 2030.

Unemployment

In 2016, Newfoundland and Labrador had an annual average of 36,100 unemployed workers and an annual average unemployment rate of 13.4%, the highest unemployment rate of any province and the second highest in Canada. In some areas, unemployment rates reached over 18% in 2016.

For references and additional information, please see <http://greeneconomy.net.ca/>

GHG Emissions for Newfoundland and Labrador by Canadian Economic Sector (2014)



Summary of Calculations for NL

| | \$Billions Invested Over 5-Year Period | Total Person-Years Created | GHG Emission Reduction (Mt CO ₂ eq) |
|--|--|----------------------------|--|
| Renewable Energy | \$0.987 | 12,636 | 1.9 - 3.3 |
| Energy Efficiency (incl. building retrofits) | \$0.900 | 13,140 | 0.3 - 0.7 |
| Public Transit (improvement and expansion) | \$0.132 | 1,673 | 0.12 - 0.15 |
| 5-Year TOTALS | \$2.02 | 27,449 | 2.3 - 4.15 |

Energy Efficiency and Conservation

Targeted public investment of \$900 million in energy efficiency and conservation over a five-year period could generate 13,140 person-years of employment in NL and reduce annual GHG emissions by up to 0.7 Mt.

- Buildings are directly responsible for 10% of NL's annual GHG emissions;
- Almost 21% of households in Atlantic Canada are considered to be energy poor based on their within-the-home energy expenditure;
- Nearly 60% of Newfoundland and Labrador's housing stock was built before 1980; and
- Over 84% of the province's housing stock is still in need of energy efficiency retrofits.

Investments in home and building retrofits will save a significant amount of energy, reduce GHG emissions, reduce energy poverty, create opportunities to complete apprenticeships, and generate employment.

One Million Climate Jobs Challenge for Canada: 27,449 Climate Jobs in Newfoundland and Labrador

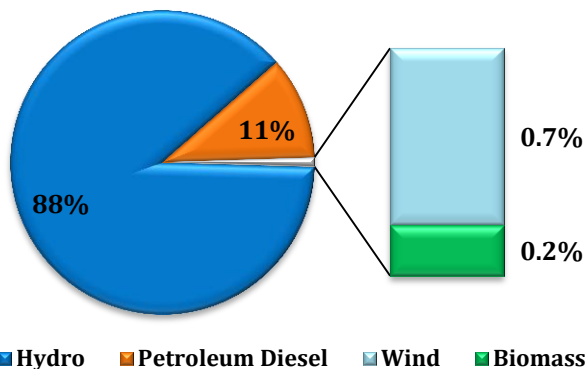
Types of Jobs in Energy Efficiency and Conservation:

- Architect
- Boilermaker
- Carpenter
- Civil Structural Engineer
- Community and Social Services
- Construction Equipment Operator
- Construction Labourer
- Education and Health Services
- Electrical Engineer
- Electrician
- Energy Efficiency Auditor
- HVAC Installer
- HVAC Technician
- Ironworker
- Office and Administrative Support
- Pipefitter
- Plumber
- Roofer
- Service Industry Occupations
- Steelworker
- Weatherization Installer/Technician

Types of Jobs in Renewable Energy:

- Boilermaker
- Community and Social Services
- Construction Worker
- Drilling Equipment Operator
- Education and Health Services
- Electrician
- Engineer
- Excavator
- Heavy Equipment Operator
- Ironworker
- Land Surveyor
- Machinist
- Mechanic
- Office and Administrative Support
- Pipefitter
- Plumber
- Service Industry Occupations
- Scientist
- Sheet Metal Worker
- Steelworker
- Surveyor
- Welder

Newfoundland and Labrador
Installed Capacity Mix (2016)



Renewable Energy

With a total public investment of \$987 million in renewable energy, GEN has calculated that 12,636 person-years of employment could be created in NL over five years. In addition, this investment will result in an annual GHG emission reduction of up to 3.3 Mt.

- Newfoundland and Labrador's installed energy capacity mix includes almost 90% renewable energy;
- While over 85% of electricity is generated through hydropower, there are still many communities in NL that rely on diesel;
- Newfoundland and Labrador has the highest onshore wind potential in all of Canada, and the third highest renewable potential in both tidal and wave energy; and
- The province currently has no installed capacity in tidal and wave energy.

The transition to a renewable energy economy must be a Just Transition that respects the rights of Indigenous Peoples, revitalizes communities, and ensures that workers in carbon-intensive industries are protected and able to support their families.

Public Transit

With an investment of \$132 million in public transit, GEN has calculated that 1,673 person-years of employment would be created in NL. Targeted public investment in public transit will also reduce Newfoundland and Labrador's annual GHG emissions by up to 0.15 Mt, with the potential for greater emissions reductions over time

- Nearly 90% of workers in St. John's commute by personal vehicle

Targeted investments in public transportation will introduce more comprehensive and accessible services while making fares more affordable for low-income families. Implementing these priorities as part of a public transportation strategy will ensure that underserved communities and individuals – including (but not limited to) women, people of colour, Indigenous Peoples, youth and students, seniors, and persons with disabilities – will benefit from increased access to health services, education, recreation, and employment, including the employment opportunities that are created through the creation and expansion of transit services.

Types of Jobs in Public Transit:

- Automotive Technician
- Bus and Transit Driver
- Civil Engineer
- Community and Social Services
- Construction Equipment Operator
- Construction Labourer
- Education and Health Services
- Electrician
- Industrial Engineer
- Machinist
- Mechanic
- Mechanical Engineer
- Metal Fabricator
- Office and Administrative Support
- Service Industry Occupations
- Transportation Planner
- Urban Planner
- Welder

This plan for NL lays the foundation for tackling climate change while creating jobs. It also provides a strategy to address poverty and inequality. The proposals outlined in this plan will not only serve displaced workers from polluting industries, but will also create opportunities for workers from industries suffering the impacts of climate change, the unemployed, the working poor, as well as Indigenous Peoples, racialized communities, women, youth, LGBTI individuals, and persons with disabilities. Let's act now to make this plan for Newfoundland and Labrador a reality, get people back to work, and give our children the future that they deserve.