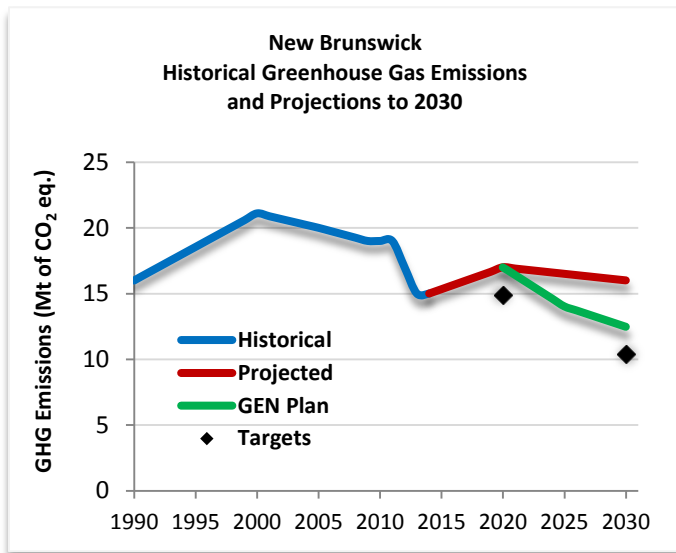


# One Million Climate Jobs Challenge for Canada: 23,478 Climate Jobs in New Brunswick

The Green Economy Network (GEN) has calculated that New Brunswick could create 23,478 person-years of employment over a five-year period through a total public investment of \$1.73 billion in energy efficiency and conservation, renewable energy, and public transit. In addition, targeted public investment in these three priority areas will reduce New Brunswick's annual greenhouse gas (GHG) emissions by up to 4.5 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

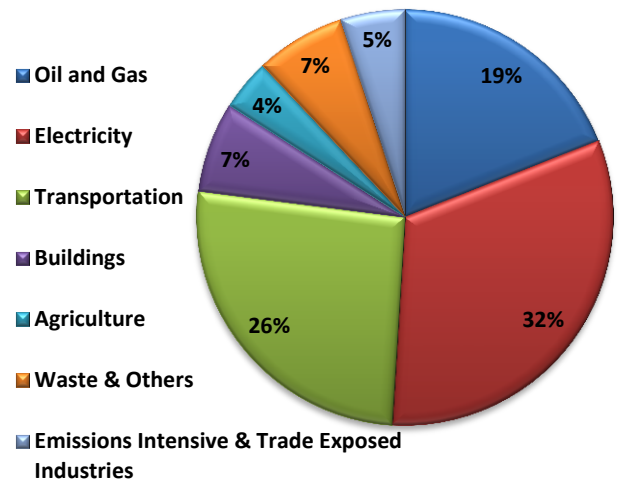
- New Brunswick's total GHG emissions were 14.9 Mt in 2014, representing 2.0% of total national annual GHG emissions;
- While the province's contribution to national emissions is low, New Brunswick has the fifth highest emissions per capita in Canada;
- Although there has been an overall reduction in GHG emissions in New Brunswick in recent years, industrial and transportation emissions have increased; and
- New Brunswick 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, New Brunswick had an annual average of 37,100 unemployed workers and an annual average unemployment rate of 9.5%, the third highest average annual unemployment rate of any province and the fourth highest in the country.

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

GHG Emissions for New Brunswick by Canadian Economic Sector (2014)



## Summary of Calculations for New Brunswick

	\$Billions Invested Over 5-Year Period	Total Person-Years Created	GHG Emission Reduction (Mt CO <sub>2</sub> e)
Renewable Energy	\$0.779	10,019	2.6 - 3.7
Energy Efficiency (incl. building retrofits)	\$0.75	10,950	0.2 - 0.6
Public Transit (improvement and expansion)	\$0.198	2,509	0.18 - 0.23
<b>5-Year TOTALS</b>	<b>\$1.73</b>	<b>23,478</b>	<b>2.98 - 4.53</b>

## Energy Efficiency and Conservation

Targeted public investment of \$750 million in energy efficiency and conservation over a five-year period could generate 10,950 person-years of employment in New Brunswick and reduce annual GHG emissions by up to 0.6 Mt.

- New Brunswick has the country's third highest rate of energy consumption per square metre;
  - Almost 21% of households in Atlantic Canada are considered to be energy poor based on their within-the-home energy expenditure;
  - Nearly 60% of New Brunswick's housing stock was built during the 1970s and 80s; and
  - Over 86% 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: 23,478 Climate Jobs in New Brunswick

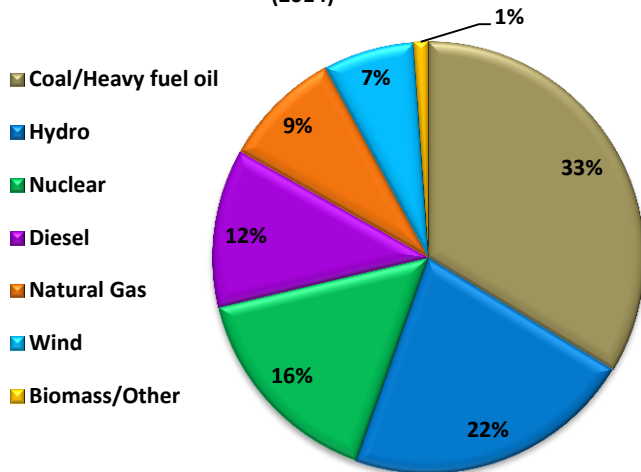
## Types of Jobs in Energy Efficiency and Conservation:

- 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

New Brunswick  
Installed Capacity Mix  
(2014)



## Public Transit

With an investment of \$198 million in public transit, GEN has calculated that 2,509 person-years of employment would be created in New Brunswick. Targeted public investment in public transit will also reduce New Brunswick's annual GHG emissions by up to 0.23 Mt, with the potential for greater emissions reductions over time

- Nearly 90% of workers in Moncton and Saint John 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.

## Renewable Energy

With a total public investment of \$779 million in renewable energy, GEN has calculated that 10,019 person-years of employment could be created in New Brunswick over five years, where the majority of employment would be in the tidal, wave, and wind energy sectors. In addition, this investment will result in an annual GHG emission reduction of up to 3.7 Mt.

- Electricity accounts for 32% of New Brunswick's annual GHG emissions;
- The amount of renewable energy on New Brunswick's grid hit record highs in 2015-2016, increasing from a 29% to a 42% share of total installed electrical capacity;
- New Brunswick has the third highest offshore wind potential in all of Canada, and has the fourth highest renewable potential in 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.

## 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 New Brunswick 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 New Brunswick a reality, get people back to work, and give our children the future that they deserve.