

NOVA SCOTIA'S EXCITING PATHWAY TO 90% RENEWABLES AND A COMPLETE COAL PHASE-OUT

Nova Scotia needs to set a pathway toward building the electricity grid of the future that cuts carbon, creates jobs and leaves no one behind.

Nova Scotia needs to move away from dirty coal-powered electricity, and toward energy efficiency, local renewable energy and transmission links with our neighbours.

NOVA SCOTIA NEEDS TO SET NEW GOALS FOR OUR ELECTRICITY SECTOR FOR THE YEAR 2030.

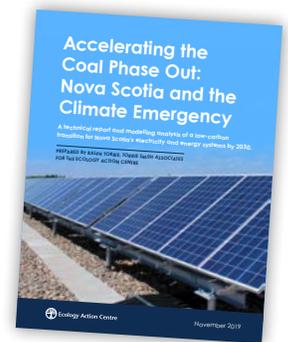
 **Renewable Electricity**

 **Complete Phase-out of Coal-Fired Electricity**

 New, ambitious targets to improve energy efficiency, reduce energy bills and make Nova Scotians more comfortable in their homes

NOW, NOVA SCOTIA HAS A PATHWAY TO GET US THERE!

In November 2019, the Ecology Action Centre commissioned an extensive technical report titled, *Accelerating the Coal Phase Out: Nova Scotia and the Climate Emergency*.



It is the first report of its kind in Atlantic Canada, and it outlines the exciting pathway for Nova Scotia's electricity system.

KEY MEASURES AND RESULTS FROM THE LOW-CARBON PATHWAY IN THE REPORT INCLUDE:

SUBSTANTIAL INCREASES IN ENERGY EFFICIENCY PROGRAMMING

 80% of residential and commercial buildings receive deep-energy retrofits

 continued efficiency gains in lighting and other appliances

 shifts away from oil and natural gas heating

 major shifts to heat pumps for space heating and hot water



Overall **electricity demand dropping** by about 7% in the province between 2019 and 2030



By 2030 25% of personal vehicles will be plug-in hybrid, and 15% fully battery-**electric vehicles**.



The addition of about 120 MW / 480 MWh of **energy storage**.



A generation mix of about 43% wind, 5% solar, 43% hydro and 9% natural gas by 2030.



A doubling of **wind power** in Nova Scotia, with the addition of 600 to 800 MW.



Significantly increasing **solar power** in Nova Scotia, with the addition of 480 MW.



Building a second **transmission link** to New Brunswick, and importing about 200MW of existing hydroelectricity capacity from Quebec.

ACHIEVING THIS PATHWAY WOULD RESULT IN THE GHG EMISSIONS REDUCTIONS WE NEED!

The report also performs a conservative, **high-level economic analysis** on the key measures, with a result of net annual **cost of about \$200 million**.

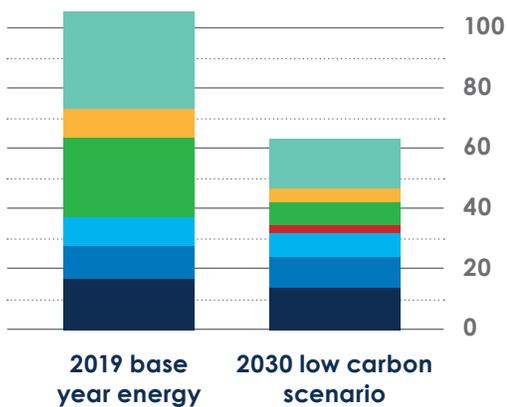


To put this in context, \$200 million is about half of one percent of Nova Scotia's annual economic output, or about **10% of the revenue the government collects every year in sales tax**.

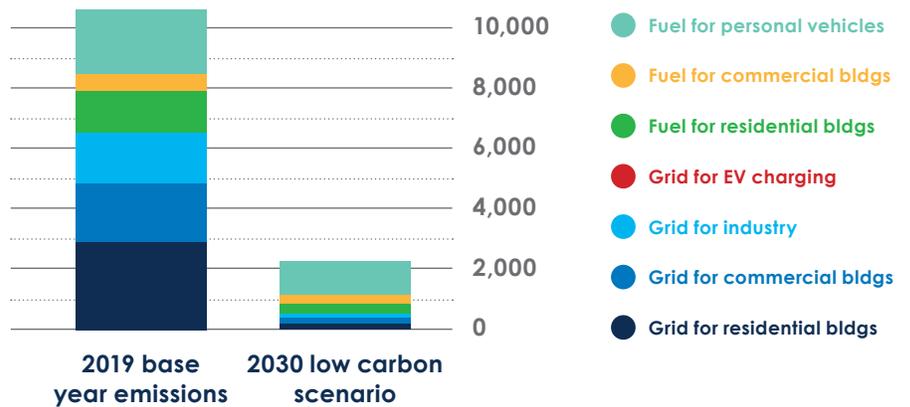
Significant overall **greenhouse gas emissions reductions** in Nova Scotia result from the low-carbon pathway in this report. Including the emission reductions in the scope of this report lead to a provincial total of more than **69% below 2005 levels by 2030**.



Energy in scope, PJ



Emissions in scope, kilotonnes CO2e



Nova Scotia needs to set new goals to move toward this exciting pathway. Now is the time to seize this opportunity by legislating ambitious, equitable and inclusive climate goals so all Nova Scotian communities can prosper in a sustainable economy, and experience a high quality of life.



**TOGETHER, WE CAN REDUCE EMISSIONS,
CREATE THOUSANDS OF JOBS AND LEAVE NO ONE BEHIND.**



Read the full report and find out more about phasing out coal electricity in Nova Scotia at:
www.ecologyaction.ca/ElectricityReport

A companion report that outlines the job-creation aspects of this transition, released in September 2019 can be found at: www.ecologyaction.ca/GreenJobsReport