

POWERING A GREEN NOVA SCOTIA, TOGETHER

OUR PATH TO 2030

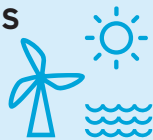
We're committed to delivering safe and reliable electricity to our customers across the province. We're also committed to transitioning to cleaner sources of energy so we can meet climate change goals.

We recognize that every dollar we invest in our operations comes at a cost to our customers. This means we always need to balance affordability with the investments required to provide reliable electricity for our customers.

WHAT WE'VE ACCOMPLISHED SINCE THE LAST RATE APPLICATION

\$5 BILLION COMMITMENT FROM NS POWER CUSTOMERS

in the last 15 years toward adding sources of clean, low-carbon energy to our system



REDUCED CARBON EMISSIONS BY 43%

since 2005

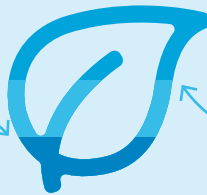


We've **INCREASED CUSTOMER CONVENIENCE** through projects like smart meters, which have been rolled out to nearly **500,000 HOMES.**

REDUCED USE OF COAL BY 44%

since 2005, and working to phase out coal generation by 2030

TRIPLED RENEWABLE ENERGY OUTPUT from 9% to 30% over the last decade



Forecast to soon reach approximately **60% CLEAN ENERGY**

Rates: **NO INCREASE SINCE 2014**

(non-fuel related)

AVERAGE FUEL RELATED INCREASES IN LINE WITH INFLATION SINCE 2014



Over the last five years, we've **REDUCED THE AVERAGE LENGTH AND FREQUENCY OF POWER OUTAGES.**

OUR INNOVATION INVESTMENT

\$100 MILLION

invested each year in improving reliability, including **innovative technology**—like intelligent devices to protect our system from faults, and monitoring technology to identify proactive device replacements.

135 BATTERIES DEPLOYED

across Nova Scotia through our Smart Grid battery storage pilot program



Testing **RESIDENTIAL AND GRID-SCALE BATTERIES** through the Intelligent Feeder project in Elmsdale, NS

OUR FIRST COMMUNITY SOLAR GARDEN IN AMHERST

generating 2,700 MWh of electricity per year—enough to power about 240 homes.



OVER 150 CHARGING STATIONS deployed across NS



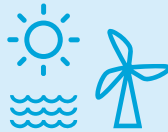
OVER 5,000 CHARGING SESSIONS via our EV smart charger pilot

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OUR PLAN

We're transforming an electrical system that took **OVER FIVE DECADES** to develop in less than 10 years.



One of the ways we can meet demand for low-carbon energy in an affordable way is **TRANSMISSION CONNECTIONS TO CLEAN POWER SOURCES** in other parts of Canada.

THE EASTERN CLEAN ENERGY INITIATIVE

(ECEI) is a plan to support our region's transition to cleaner energy by 2030 in a fair and affordable way to meet the goals set by government.

It will take a **PORTFOLIO OF SOLUTIONS** like new wind resources and grid-scale batteries to help us grow our use of clean energy.

UNDERSTANDING OUR RATE APPLICATION

To support our clean energy transition, strengthen and modernize our grid, and meet our renewable energy goals, big changes are necessary. It's why we've applied to the Nova Scotia Utility and Review Board (UARB) requesting a rate increase for 2022, 2023 and 2024. This is the first general rate application we've filed since 2012. The rate increase will support the changes we need to make to enable us to meet governments' environment goals and ensure we can meet our customers' growing demand for electricity today and into the future.

Change how we make, deliver and store electricity to enhance and improve reliability, reduce power outages and keep you connected.



- As we transition to cleaner sources of energy, we must also meet customer expectations for reliable electricity.
- Batteries and micro grids will allow us to store and use clean energy more effectively.
- We're working with regional utility partners and governments on plans to build transmission connections to clean energy sources in other parts of Canada.

Establish and combine the right technologies and green solutions that will help us meet our clean energy goals.



- The Smart Grid Nova Scotia project will help show the possibilities for use of community scale solar, commercial/ industrial battery configurations, electric vehicles and in-home battery installations.

Continue to strengthen and modernize our electrical system so that it can stand up to changing and severe weather and support the growing population in Nova Scotia.



- Nova Scotia's power grid runs through forest, fields, and rock, and sits on the edge of the North Atlantic Ocean.
- It's made up of close to 33,000 kilometres of power lines and approximately 500,000 poles. It's a complex system that continues to be exposed to severe weather that is getting more severe with time.
- Severe weather is the leading cause of power outages in Nova Scotia—and its impacts lead to weakened trees which fall into our lines.
- We are upgrading the power grid through innovative technologies and large-scale upgrades across the province.

Continue to work to remove carbon from electricity and transition our power plants away from coal, thus lowering emissions for our customers.



- Under current emissions legislation, by 2030 we will:
 - Reduce carbon emissions by 55 per cent relative to 2005 levels.
 - As we phase out coal fired generation and reach 80 per cent renewable energy, this will result in even more substantial emission reductions by 2030.
- Reduce sulfur dioxide emissions by 80 per cent from 2005 levels
- Reduce nitrogen oxide emissions by 73 per cent from 2005 levels
- Remove mercury

Deliver innovative energy solutions to keep our customers' convenience at the forefront.



- As we transition to renewable energy, we're also planning to support a more electrified world, where customers increasingly rely on electricity to live, work and thrive.
- We're making it easier and faster for customers to access information to make choices regarding their electricity use.
- We're also continuing to invest in technology and energy solutions to give customers more convenience, reliability, information and choice.

For more information about our rate application and path to 2030, visit nspower.ca/rateapplication

