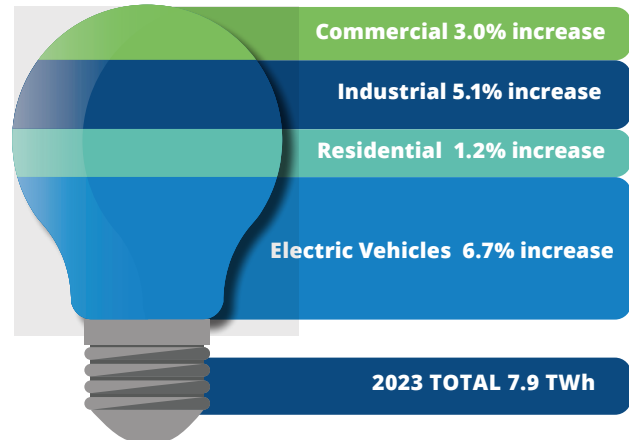


# INCREASING CAPACITY: BAY D'ESPOIR UNIT 8

Hydro is planning for the future and working hard to power the province with safe, reliable electricity—it's something we all need—and we will need more.

It is a time of transition for our electricity system, and it's our responsibility to guide our province forward. To do so, we are balancing cost, reliability, and the environment in our decisions.

The demand for new sources of reliable, renewable electricity is on the rise, driven largely by industrial development and electrification.



## Reliability and Resource Adequacy (RRA) Study

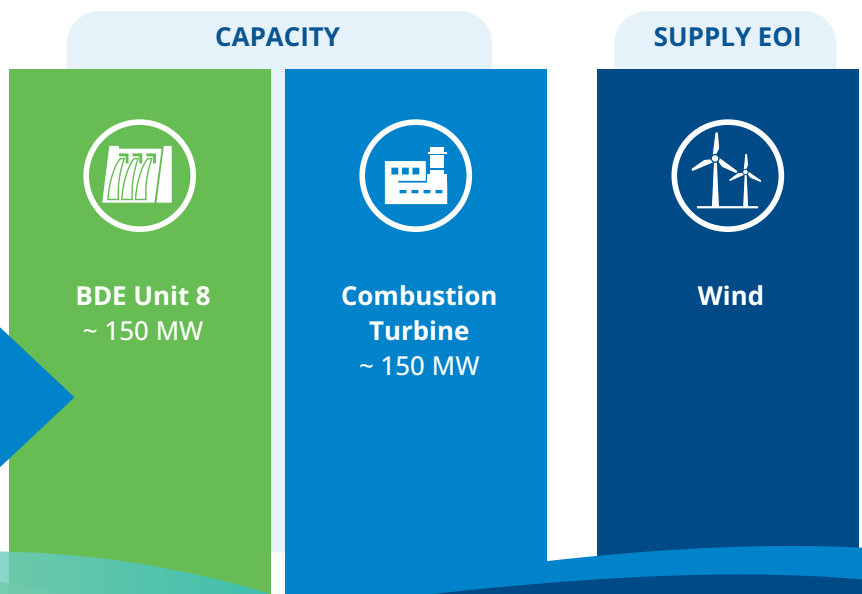
Newfoundland and Labrador Hydro began a Reliability and Resource Adequacy study in **2018** with a focus on planning to meet customer and system requirements over a **10-year planning horizon**.

An RRA update in **2024** proposed some major capital projects to meet forecasted growth, utilizing the best resource options to maintain reliability and add additional firm capacity supply for the island. This includes an expansion to **add an eighth generating unit** at the Bay d'Espoir hydroelectric generating station.

Scan the QR code for Hydro's plan to power the province!



Hydro is adding...



QUESTIONS? Connect with us:  
ProjectFeedback@nlh.nl.ca

## The WHYs

### **WHY an additional unit?**

Analysis has determined that an expansion to add an eighth generating unit will help meet growing demand for electricity, while supporting the reliability of service for customers.

### **WHY at the Bay d'Espoir Hydroelectric Generating Station?**

The Bay d'Espoir Hydroelectric Generating Station continues to be a core part of the province's electricity system. Utilities apply statistical modeling to forecast and plan for how much electricity is needed and which resources are available to best meet the expected demand across different scenarios, taking into account reliability, cost, and environmental impact. The addition of a new 150 MW hydroelectric unit (Unit 8) in Bay d'Espoir involves the minimum investment required to serve customer demand now and into the future.

## The WHAT

### **WHAT will the Project include?**

The Bay d'Espoir Unit 8 project will include the engineering, procurement, construction, installation, commissioning, and testing of all works associated with the Project, including:

- expansion of the existing Powerhouse No. 2 and new turbine installation;
- a new intake, intake building, penstock and ancillary services;
- a new 230 kV transmission line from the new Unit 8 step-up transformer to the existing Terminal Station No. 2, as well as station modifications; and
- new auxiliary mechanical, electrical, protection and control, telecontrol, and telecommunications and communications equipment.

### **WHAT role with the generating station play in the future?**

The Bay d'Espoir generating station has always been a central part of our province's electricity system, and it will continue to be well into the future. Over the coming years, Hydro is planning major investments in its long-term operation.