

Mactaquac Life Achievement Project (MLAP)

The MLAP is a vital investment in New Brunswick's secure energy future, ensuring this cornerstone of our grid continues to provide clean, reliable power for generations to come.

What is Mactaquac Generating Station's role in powering our province?

A run-of-the-river hydro facility with an installed generation capacity of 672 MW, Mactaquac is the second-largest generating station in NB Power's portfolio, playing a vital role in our fleet.

It provides:

- **30 per cent** of the province's legislated renewable energy requirements
- **20 per cent** of New Brunswick's peak electrical capacity needs

What is the goal of the MLAP?

Commissioned in the late 1960s with a 100-year life expectancy, Mactaquac

Generating Station's concrete structures have experienced unexpected deterioration due to alkali-aggregate reaction (AAR), which is not unique to Mactaquac. This natural chemical process causes the concrete to expand slowly, resulting in structural misalignment and cracks that impact critical equipment, including spillway gates and turbines.

Also, aging mechanical and electrical equipment must be replaced, and improvements must be made to fish passage systems.

Were other options explored?

There was no "do nothing" option and without intervention, the station would require increasingly costly maintenance and would likely cease

operations decades earlier than its original lifespan of 1968.

After evaluation of several alternatives, including full decommissioning or the construction of a new facility, and a comprehensive public engagement process, it was determined that rehabilitating the existing station is the best path forward.

What are the project benefits?

The MLAP will ensure Mactaquac continues to provide value through clean, low-cost and carbon-free generation.

The project also offers significant economic benefits in terms of local jobs, materials, housing and construction costs.

As a cornerstone investment in New Brunswick's energy future, MLAP will sustain Mactaquac's role as a critical source of renewable electricity, supporting the province's long-term reliability, energy security and economic goals.

Who are the project partners?

The MLAP is moving forward following three years of expert research, including input from science, engineers, the public and First Nations.

Partners include First Nations, construction companies and the Province of New Brunswick.

How will aquatic life be protected?

NB Power is dedicated to ongoing collaboration with Fisheries and Oceans Canada and Indigenous groups to develop modern, effective strategies for protecting Atlantic salmon and aquatic life at the Station and throughout the construction process.



What is the project's timeline?

To maintain grid stability throughout the project, we will take a phased approach. The overall timeline is:

- **Summer 2026** - Essential site preparation to begin
- **2027** - Construction to begin pending all necessary approvals
- **2028-29** - Removal and replacement of the first generating unit
- **2030-2036** - Generation unit rebuilds
- **2037-38** - Project completion

Will traffic be impacted on area roads and waterways?

We're committed to ensuring this is a safe work site for all staff and contractors, as well as the public. Any impacts due to construction will be shared well in advance to ensure limited impacts.

What will the MLAP cost?

Financial statements reflecting overall project costs will be publicly available in quarterly and annual reports. However, current estimates, including interest and inflation over the life of the project, are expected to be between \$7.6 and \$9 billion. This is a complex project that requires the evaluation of many activities and details, and we have engaged a third-party expert to help refine the project cost.

To find out more:

nbpower.com/mactaquacproject
mactaquac@nbpower.com