

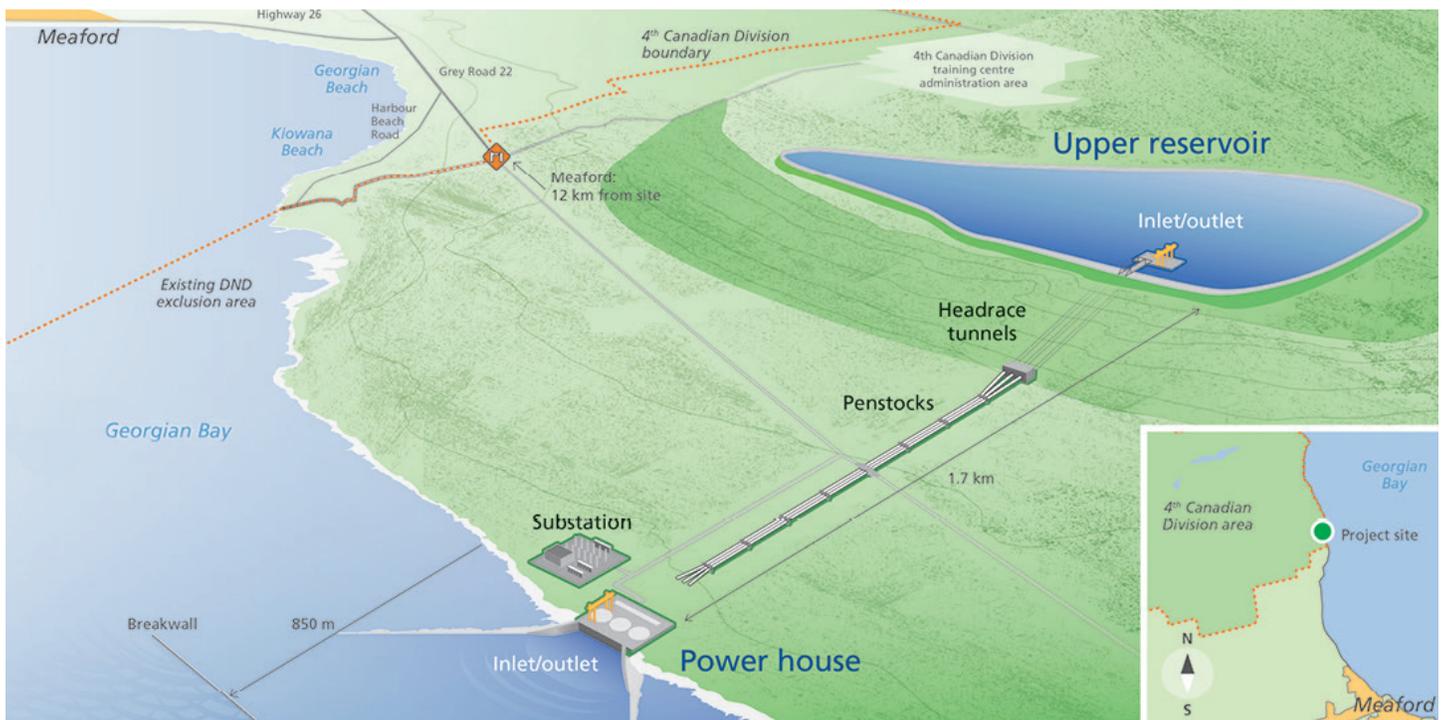
Proposed energy storage facility.

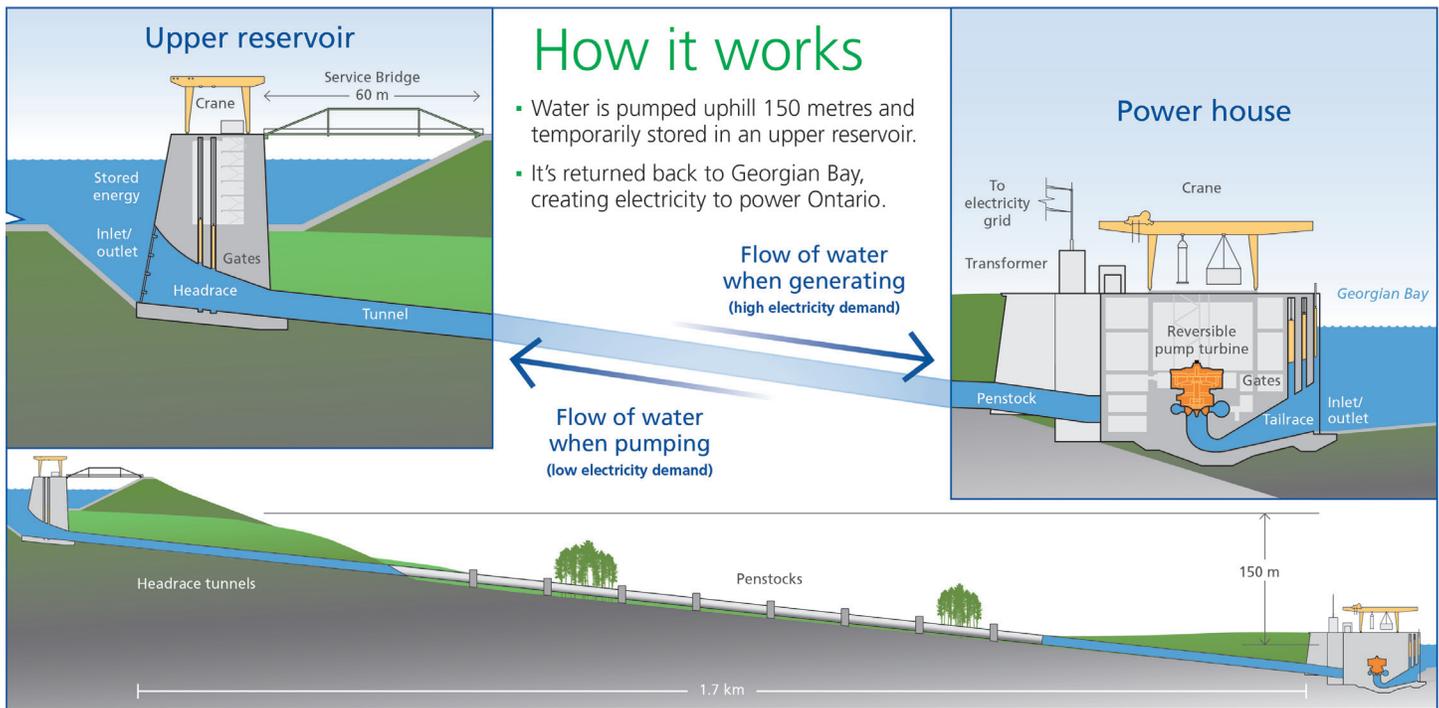
A proposal to cost-effectively address Ontario's future energy needs

TC Energy is proposing to develop an energy storage facility that would provide 1,000 megawatts of flexible, clean energy to Ontario's electricity system using a process known as pumped storage. The proposed facility would be co-located on the existing Canadian Army's 4th Canadian Division Training Centre, north of Meaford, Ontario. It would be designed to store emission-free energy and provide energy to Ontarians when they need it most.

The proposed project is a clean, affordable and flexible energy solution that would help meet Ontario's future energy needs and reduce costs for Ontario ratepayers. A proven, versatile technology, energy storage offers solutions to a number of existing challenges facing Ontario's electricity system. It would be a reliable resource to maintain the balance between supply and demand and manage the fluctuations caused by the integration of intermittent solar and wind generation.

This diagram is for illustrative purposes only and is subject to change.





Project benefits

- **Ratepayer benefit:** Would reduce costs of electricity for Ontario ratepayers by an estimated \$250 million/year, representing billions of savings over the facility life while increasing reliability and reducing future greenhouse gas emissions.
- **Economic impact:** \$3.3 billion private sector investment.
- **Purchase of local goods and services:** Approximately 65 per cent of the \$3.3 billion cost is construction - resulting in significant local labour and supplier opportunities, in addition to the supply of services such as food, accommodation, fuel, hardware, parts, gravel, etc.
- **Job creation:** Over 800 construction jobs over four years in addition to long-term operational jobs and supplier opportunities.
- **Community investment:** Our Build Strong program provides valuable tools and resources to first responders, helps fund educational programs, supports important community needs, and strengthens environmental stewardship and sustainability through local and regional investments. In 2018, TC Energy invested more than \$22.5 million in over 1,660 initiatives across 744 communities.
- **Climate benefits:** Stores clean emission free energy and uses it to reduce gas generation from fossil fired facilities, resulting in the reduction of **500,000 tonnes/year** in greenhouse gas emissions, which is equivalent to removing about **150,000 cars** off the road each year.

Transmission line

TC Energy will be considering several transmission routing options and technologies through the environmental assessment processes and will be undertaking an extensive engagement program with communities and stakeholders to understand interests and concerns.

Our commitment to the environment

The project, if progressed, will be subject to several regulatory approval processes, including an Environmental Assessment under the Ontario Ministry of the Environment, Conservation and Parks and a federal Impact Assessment under the Impact Assessment Agency of Canada. These assessments will include studies of a wide range of biophysical, social and cultural elements, such as fisheries, wildlife, vegetation, water, archaeology, infrastructure and services, and communities and their economies. The findings from these studies will be used to identify project-specific mitigation and inform detailed project design.

About TC Energy

With more than 65 years' experience, TC Energy is a leader in the responsible development and reliable operation of North American energy infrastructure including natural gas and liquids pipelines, power generation and gas storage facilities.

Find out more at TCEnergy.com.

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