

CONNECTING TO OPPORTUNITIES

Taltson Hydro Expansion Project



The Taltson Hydro Expansion Project will expand the existing Taltson generating station and interconnect the Northwest Territories' existing hydro capacity to one hydro grid while providing access to clean energy in the mineral-rich Slave Geological Province.



Government of
Northwest Territories

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FAST FACTS

- The Taltson River system has 200 megawatts (MW) of electrical generation potential.
- A 60 MW expansion of Taltson could remove up to 240,000 tonnes of greenhouse gas emissions annually.
- New transmission lines will connect the Taltson system to the North Slave hydro system, which will help improve reliability for both.

PROJECT PHASES

1. Add 60 MW of capacity to the existing Taltson hydro system and connect to the Snare hydro system with a transmission line.
2. Provide clean hydro energy to the Slave Geological Province and resource sectors north and south of Great Slave Lake.
3. Connect the NWT electrical grid to Alberta or Saskatchewan.

PROJECT HIGHLIGHTS

- The project is part of a full-service infrastructure corridor concept (transportation/energy/communications) that would provide clean hydro energy to the mineral-rich Slave Geological Province.
- Initial expansion will add 60 MW of generation capacity to the existing 18 MW facility on the Taltson River and a transmission line into the Yellowknife area. The project will be designed to minimize environmental impacts and result in no new flooding.
- A single hydro grid will support industry and transportation sectors to transition away from fossil fuels by providing access to clean energy north and south of Great Slave Lake.
- Once built, an integrated hydro system connecting the Snare system in Yellowknife and the Taltson hydro system will stabilize electricity rates for 10 communities and over 70% of the NWT population.
- The project will provide partnership opportunities for Indigenous governments and job opportunities for Northerners.



CURRENT STATUS

- Work is underway to develop transmission and hydro plans, fulfill environmental responsibilities, engage stakeholders, finalize the project business case and establish strong Indigenous partner relationships.
- The Government of Canada has committed \$18 million to the project since 2018.
- In 2021, a Memorandum of Understanding was signed between the Government of the Northwest Territories, Northwest Territory Métis Nation, which includes the Fort Resolution Métis Government, Fort Smith Métis Council and Hay River Métis Government Council, and the Akaitcho Territory Government, which includes the Łutsel K'e Dene First Nation, Denínu Kúé First Nation, and Yellowknives Dene First Nation.
- Two technically viable transmission line routes are being advanced:
 - An approximately 805 km line, which travels west around the Great Slave Lake, following the existing highway right-of-way, and;
 - An approximately 320 km transmission line from Twin Gorges to Yellowknife, which includes 160 km of overhead transmission from Twin Gorges to the south shore of Great Slave Lake and 160 km of submarine cable to Yellowknife.

For more information contact us as
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