



HYDRO STORAGE ENHANCEMENT
PART OF OUR

Future-Focused Portfolio

We need a mix of energy projects to meet Yukoners' demand for electricity, and to build a sustainable, reliable and affordable energy future for Yukon.

The result is our future-focused portfolio, a collection of different energy projects that will support Yukon's growth. As we continue to work on other pieces of the portfolio, we want to hear from you about our proposed Southern Lakes Enhanced Storage Project.



Future-Focused Portfolio



learn more and have your say

Call: 867-393-5333

Email: communications@yec.yk.ca

Visit yukonenergy.ca/southernlakes for a full schedule of community events and open houses, as well as more information, studies and reports.

Let's make the most of
what we have together.

That's the power of Yukon.



yukonenergy.ca/southernlakes



making the most of what we have



SOUTHERN LAKES ENHANCED STORAGE PROJECT

Yukon Energy is committed to renewables. Yukoners have told us they are too.

As we work to build new long-term sources of renewable electricity, we're committed to making the most of the renewable sources we have now.

The Southern Lakes Enhanced Storage Project will help us use more renewable hydroelectricity each winter and reduce the amount of liquefied natural gas and diesel we need to use.

We've spent a long time researching this project and collecting public input. We would like to hear your final comments on this project before we make a decision about whether to move this project forward for assessment by the Yukon Environmental and Socio-economic Assessment Board.

PROJECT DETAILS

The Southern Lakes Enhanced Storage Project is a renewable option that would:

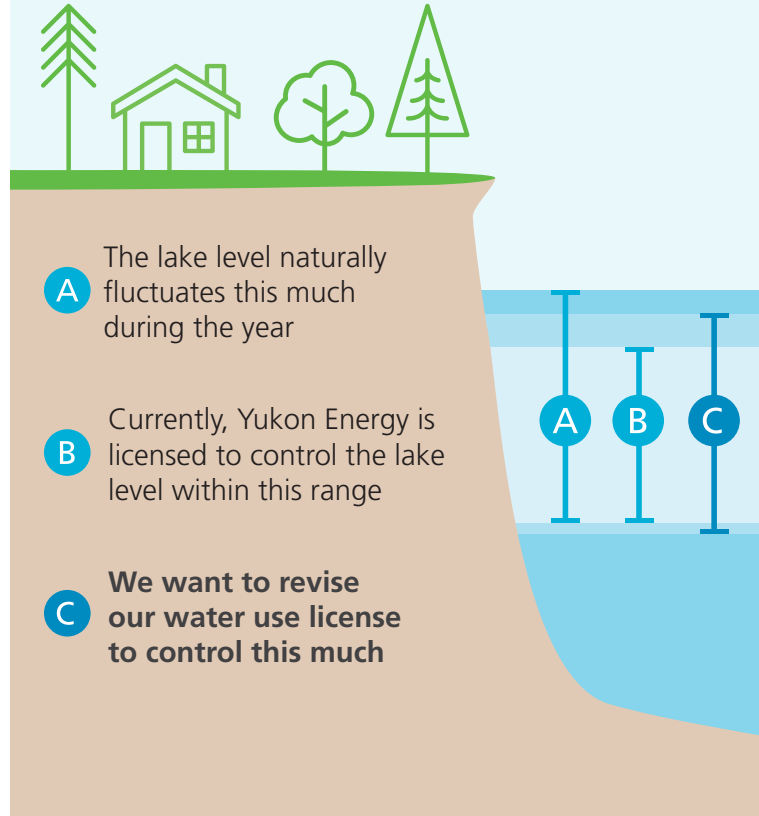
- generate an additional 6.5 gigawatt hours of renewable electricity each winter (enough to power some 500 homes)
- reduce greenhouse gas emissions by about 3,100 tonnes a year
- save Yukoners about \$1 million per year at current diesel and LNG prices
- require no new infrastructure

The project would see us storing more water in Marsh, Tagish and Bennett lakes in the fall and early winter to be used during the winter at our Whitehorse hydro plant. It would require no new dams and Yukon Energy would manage water levels within their natural range using our existing Marsh Lake control structure.

What you would see is that, in the fall and early winter, water levels would look about the same as they do in late summer. The rest of the year, the lakes would look just as they normally do.

We've spent the last ten years researching, studying, collecting data, reviewing impacts and proposing solutions to address the potential issues. We're convinced that holding some of summer's water for an additional two to three months in fall and early winter is manageable and will help us generate more renewable electricity in winter months.

PROPOSED CHANGE



more to consider



GROUNDWATER

Some property owners in the Southern Lakes already experience issues with groundwater affecting their septic fields/tanks, basements/crawlspace, and sumps. Yukon Energy would address those issues by covering reasonable costs for raising septic fields, anchoring septic tanks and/or installing/upgrading sump pumps.



FISH, WILDLIFE, WATERFOWL AND WETLANDS

In researching this potential project, studies looked at more than 200 species of plants and animals and revealed the project would have minimal effects on fish, wildlife and waterfowl. Research also showed there would be no harm done to wetlands in the area.



EROSION

There is already naturally occurring erosion in some areas of the Southern Lakes. This erosion will continue with or without the enhancement project.

If the Southern Lakes Enhanced Storage Project goes ahead, Yukon Energy has committed to building engineered protection along the shoreline of properties that may be affected by the project. The protection is intended to be effective, long lasting, and will cover the lots within affected shoreline areas.



TRADITIONAL LAND USES AND HERITAGE RESOURCES

We recognize the strong traditional and cultural connection between local First Nations and the Marsh, Tagish and Bennett lakes. Yukon Energy will have further discussions with the Carcross/Tagish First Nation, Kwanlin Dün First Nation and Ta'an Kwäch'än Council to understand and mitigate any impacts of the proposed project on traditional and settlement lands in the project area.