

SOUTHERN LAKES ENHANCED STORAGE CONCEPT

March 2016 Update

Yukon Energy is committed to providing you with regular updates about our research into increasing water storage in some of the Southern Lakes. The concept would see us holding back more water in Marsh, Tagish and Bennett lakes in the fall, so it could be used later in the winter for renewable electricity generation when it is most needed.



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Over the past several months Yukon Energy has been involved in a focused engagement process with local residents and First Nations.



PUBLIC ENGAGEMENT:

Last summer/fall, we had two rounds of meetings with 40 property owners in six neighbourhoods who could potentially see erosion impacts as a result of the concept. The property owners selected their preferred mitigation options that would minimize any potential erosion related to the concept.

We also had telephone conversations and face-to-face meetings with more than 150 residents potentially affected by groundwater issues. 71 properties were physically surveyed to confirm infrastructure elevations and 12 properties were evaluated by an engineer for geotechnical/structural potential effects.

Engagement with Carcross/Tagish First Nation (C/TFN):

Yukon Energy and the Carcross/Tagish First Nation have together developed a Memorandum of Understanding and work plan to support their investigation and understanding of the concept.

We shared with C/TFN all the data from studies done related to the concept. The First Nation has done a thorough review of those documents and we are working together to identify additional research that may be required.

Yukon Energy participated in two public workshops put on by C/TFN over the summer and fall and has conducted several technical meetings with the First Nation to review concept material.

Engagement with Kwanlin Dun First Nation (KDFN):

Yukon Energy provided KDFN with data and reports from studies done related to the concept. The First Nation is in the process of doing a technical review of the studies.

Next Steps:

We will continue working closely with the Carcross/Tagish and Kwanlin Dun First Nations and will keep local residents informed as to our progress.

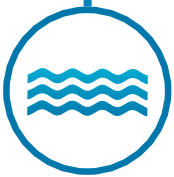
WHY WE FEEL THIS IS A GOOD PROJECT FOR YUKON:

The concept provides a renewable energy option that:

- Provides a reliable source of winter energy that is the least expensive renewable energy option currently available to Yukon Energy;
- Could save Yukoners up to \$2 million a year at today's diesel prices (up to \$1.5-million annually of blended LNG/diesel at today's prices);
- Displaces nearly 3,600 tonnes of GHG emissions each year under average water conditions, assuming a split of 75% gas and 25% diesel generation;
- Maximizes production from existing assets and natural resources;
- Provides a lasting benefit to some landowners who are already impacted by water levels in the Southern Lakes. Project mitigation would address existing problems with shoreline erosion and high groundwater;
- Is reversible – it just requires a change to our water licence; and
- Has a lower environmental impact than a greenfield hydroelectric project.

For those who advocate for us using less diesel or natural gas, this is a project that would reduce the amount of fossil fuels we would need to use.





Be informed

Click on the “Southern Lakes Enhanced Storage” button on yukonenergy.ca to find the studies and read all the reports that have been done on this concept.



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