



Kitimat LNG Interconnection Study

June 2020 Community Survey Results Summary

AUGUST 2020

BCH20-592

 **BC Hydro**
Power smart

Introduction

Liquefied Natural Gas (LNG) is an important economic development opportunity for British Columbia. We're actively working to meet the electricity needs of proposed LNG facilities to support the CleanBC objective of greenhouse gas reductions.

The Kitimat LNG Project, a joint-venture between Chevron Canada Limited and Woodside Energy International (Canada) Limited, is proposing an LNG plant at Bish Cove. The proposal uses an all-electric plant powered by clean, renewable hydroelectricity from BC Hydro. They have entered into the formal interconnection process with us requesting electrical service from BC Hydro for Kitimat LNG. As with all interconnection requests, Kitimat LNG is funding BC Hydro's work on this stage of the interconnection process.

Previous Terrace to Kitimat Transmission Project (TKTP)

BC Hydro had initiated a project in 2013 to build a new transmission line on a new right-of-way between Terrace and Kitimat, on the west side of Kitimat Valley, and decommission the existing line on the east side of Kitimat Valley. At the beginning of 2018, BC Hydro determined it was more cost effective to refurbish the existing line and raise its height to meet the increased load anticipated at that time.

Kitimat LNG initiated interconnection request with BC Hydro in 2019. The amount of electricity requested for Kitimat LNG's all-electric facility far exceeds what the existing line is capable of providing. The original TKTP project with decommissioning of the lines east of Kitimat Valley would not have been sufficient to meet the combined loads of Kitimat LNG and other industrial customers.

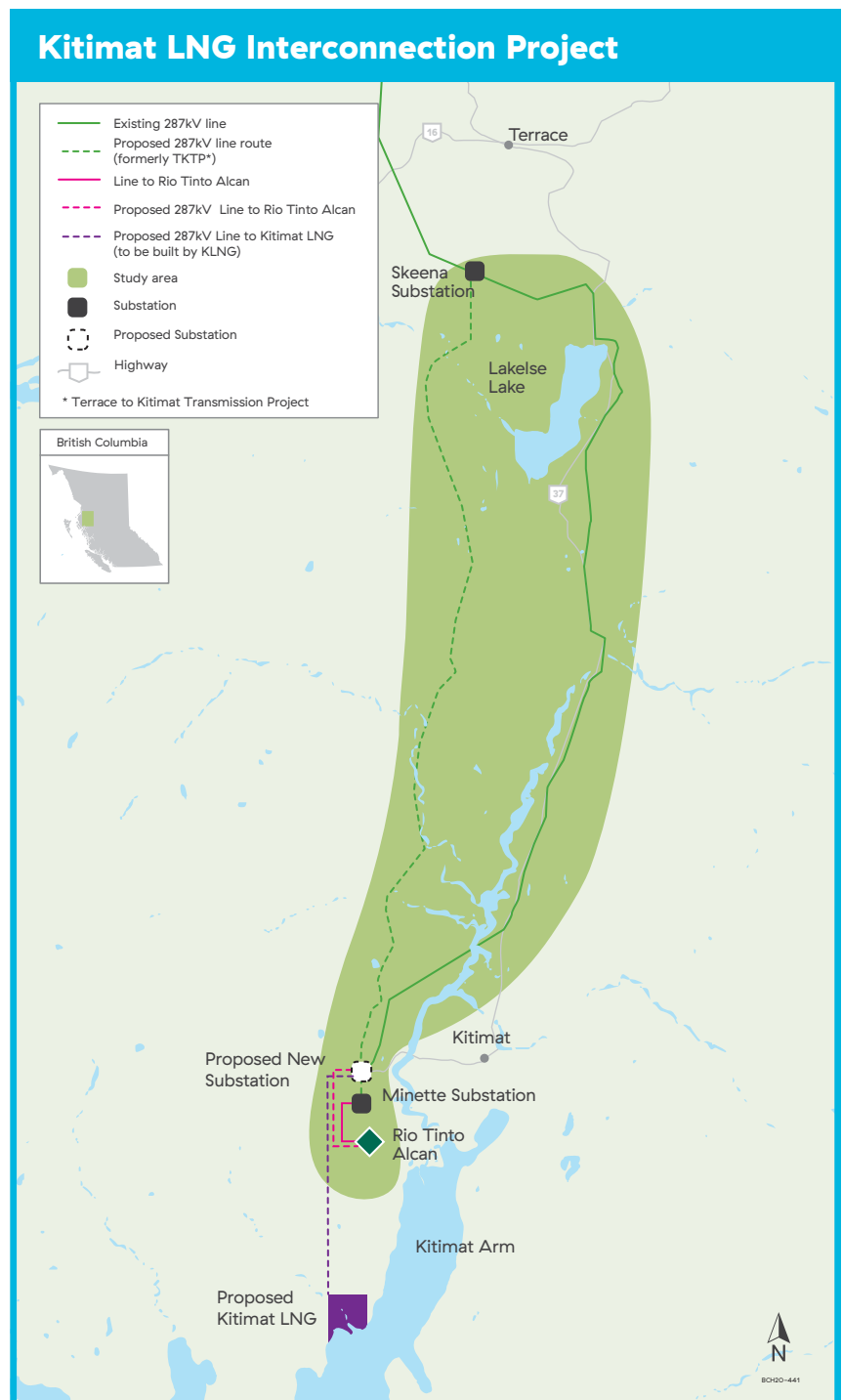
To meet Kitimat LNG's request, we would need to build a new transmission line while keeping the existing line on the east side of Kitimat Valley.

Project Scope

This interconnection study includes:

- A new substation near the existing Minette Substation in Kitimat;
- A 287 kilovolt line from Skeena Substation in Terrace to the new substation;
- A 287 kilovolt line connecting the new substation to the existing Minette Substation; and,
- A 287 kilovolt line from the new substation to Rio Tinto Alcan.

We're in the study phase of this interconnection process to identify the best way to provide power to the Kitimat LNG project. Consultation with Indigenous Nations for the project has been initiated and will be ongoing.



How will this survey be used?

This survey forms one piece of information being gathered at this early stage to inform Kitimat LNG’s investment decisions.

The survey was conducted online from June 1 to June 30. Emails were sent out to ~100 previous TKTP stakeholders with a link to the survey and survey link was added to the project website. We received 30 survey responses.

Additional public consultation will occur as information on the project is available.

Survey Results

QUESTION 1

Before today, had you heard of the Terrace to Kitimat Transmission Project (TKTP), which proposed to add a new transmission line from Terrace to Kitimat?

		Total
Total		30
1	Yes	90%
2	No	10%

QUESTION 2

TKTP was cancelled because we’re able to refurbish and raise the height of the existing line on the east side of the Kitimat Valley.

To meet the needs of Kitimat LNG’s proposed facility, we’re now looking to connect the Skeena Substation in Terrace to a proposed new substation near Kitimat with a new 287 kilovolt transmission line; one option we’re studying is reviving the previously cancelled TKTP, which involved building a new 287 kilovolt line on the west side of the Kitimat Valley. The existing line on the east side of the Kitimat Valley would remain.

As we begin this study we’d like to know your thoughts on the following:

	Strongly Agree	Somewhat Agree	Neither Agree nor Disagree	Somewhat Disagree	Strongly Disagree	Strongly + Somewhat Agree
I support having a line on the west side of the Kitimat Valley (the original proposed TKTP route) to power Kitimat LNG, in addition to the existing line.	37%	13%	17%	7%	27%	50%
I support having a line on the east side of the Kitimat Valley, parallel to the existing line.	33%	17%	33%	7%	10%	50%
It’s important to me that the reliability of electricity to Kitimat is increased.	50%	20%	20%	10%	0%	70%
It’s important to me that BC Hydro’s infrastructure footprint is minimized.	50%	30%	20%	0%	0%	80%

QUESTION 2 FOLLOWUP

Why did you pick [your Q2 selection] regarding a line on the west side and [your Q2 selection] regarding a line for the east side of the Kitimat Valley?

Summary of comments:

- Six comments support a second line on the west side of Kitimat Valley. The reasons cited include redundancy and reliability, environmentally sensitive areas to the east, minimizing visual impacts, and lower footprint on the west side. One commented that it would provide better electrical power security for the town and appreciates the redundancy and separation of the two lines.
- Five comments support running another line parallel to the existing line on the east side of Kitimat Valley. The reasons cited are primarily environmental including the east side being an existing corridor that is already disturbed, protection of wild space for wildlife, and lower footprint in the valley overall. One commenter mentioned past TKTP consultation claimed that the west side was a better route and that refurbishment was difficult.
- Six comments were indifferent to the side of the Kitimat Valley for the new line. Commenters mentioned the need for increased reliability to help business competitiveness on the international market, build the line the side of the valley with better cost effectiveness, limiting size of project footprint and the need to have power for future projects. One commenter discussed the industry commitment to ensure liquified natural gas production is green and extracted using renewable electricity from BC Hydro.
- Five comments proposed alternative concepts for consideration:
 - Constructing a structure on the east side that can hold both lines (ie. Double circuit the existing line).
 - Constructing the west side line as a double circuit to eliminate east side line.
 - Supply Kitimat LNG with Kemano power only and not connect to BC Hydro.
- Additional two comments are conditional on which side has lower impact to environment and wildlife.

QUESTION 3

Do you have any additional comments that you'd like to share with us?

Summary of comments:

- Asking BC Hydro to support local businesses to ensure electrical security.
- Requesting map of where the proposed new substation will be and the line from that substation to Kitimat LNG.
- Asking BC Hydro to justify the use of any non-local firms for study work, if any.
- Impressed by BC Hydro's commitment to the environment during the TKTP study.
- Asking why BC Hydro did not plan for Kitimat LNG earlier.
- Upset about BC Hydro needing to build dams and other infrastructure to power LNG industry that may not guarantee reduction in greenhouse gases in Asian from burning coal.