

Project overview

Substation background

- In Service since the 1970s
- Serves more than 3,600 customers in Pemberton and Sea-to-Sky region
- Supplied with electricity from one 230 kV transmission line from Bridge River generating facilities in Shalalth.



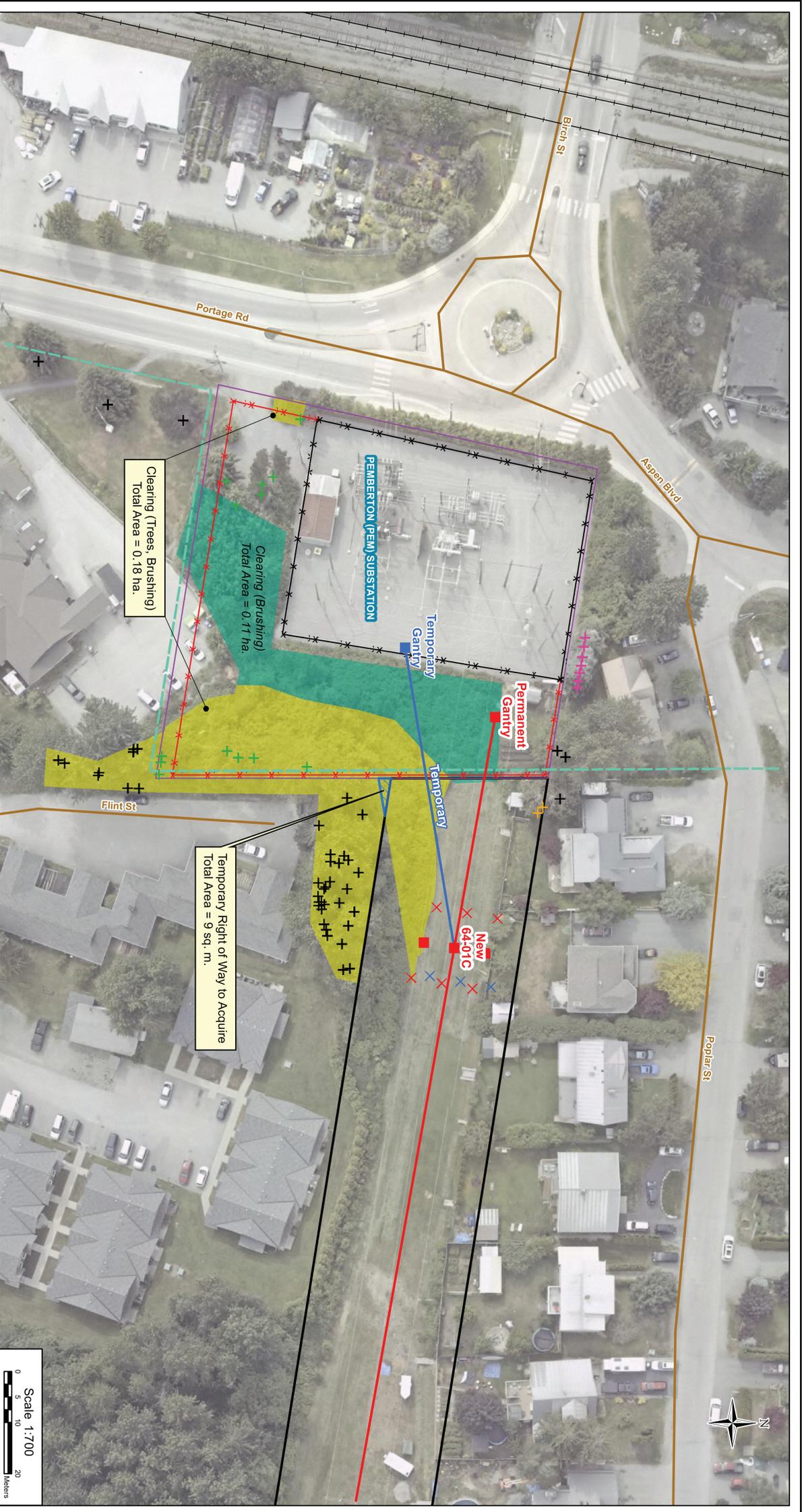
Project goals

We're planning to rebuild the substation in order to:

- Replace equipment near end-of-life.
- Remove electrical equipment containing PCBs.
- Improve station layout for future upgrades.



Pemberton Substation site



Legend

Proposed BCH Transmission Pole	Proposed Temporary BCH Transmission Centre Line	Statutory Right of Way	Tree off BCH Property to Clear
Proposed BCH Guy Pole	Proposed Temporary Right of Way to Acquire	Roads	Tree on BCH Property to Clear
Proposed BCH Temporary Pole	Existing PEM Fence Line	Railway	Tree on BCH ROW to Clear
Proposed BCH Temporary Guy Anchor	Proposed PEM Fence Line	Existing Sewer Line	Vegetation Clearing - Brushing
Proposed Final BCH Transmission Centre Line	PEM Property Boundary	Tree off BCH Property to Limb	Vegetation Clearing - All

KEY MAP

CLIENT
BCHydro

PROJECT
TY-0485
PEMBERTON SUBSTATION REBUILD

TITLE	DATE	ANALYST	DWG NO.
PEMBERTON STATION REBUILD	14 March 2023	JL	250167_PEM_Substation_Map_2023_02_14_1A
	DWG FILE	AVC	DRAWING NO.
	250167_PEM_Substation_Map_2023_02_14_1A	AV	21001PEM - SKETCH
	SOURCES: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri	COORDINATE SYSTEM:	WOOD.
		NAD 1983 CRS UTM ZONE 10N	

Impacts and mitigation: Property

The project will require an expansion within existing property lines

THIS WILL INCLUDE:

- Vegetation removal around the substation
- Moving several Pemberton Health Centre parking stalls.



Impacts and mitigation: Studies

The following desktop and field studies are underway or completed:

- Property Survey (complete)
- Archeological Impact Assessment (complete)
- Soil Characterization (underway)
- Geotechnical Investigations (underway)
- Wildlife and Vegetation Studies (underway)

Construction

Working to minimize impacts:

TRAFFIC

- Traffic Management Plan
- Maintain Health Centre access

VEGETATION

- Minimize clearing



View from Pemberton Portage Road near Portage Road, looking north. Substation is to the right.

Construction

Planned outages are required to safely complete this work

- We are in the early planning stages.
- Dates and outage durations will be communicated when information becomes available.
- We will incorporate feedback from the Village, local businesses and residents, where practical.



First Nations

Consultation

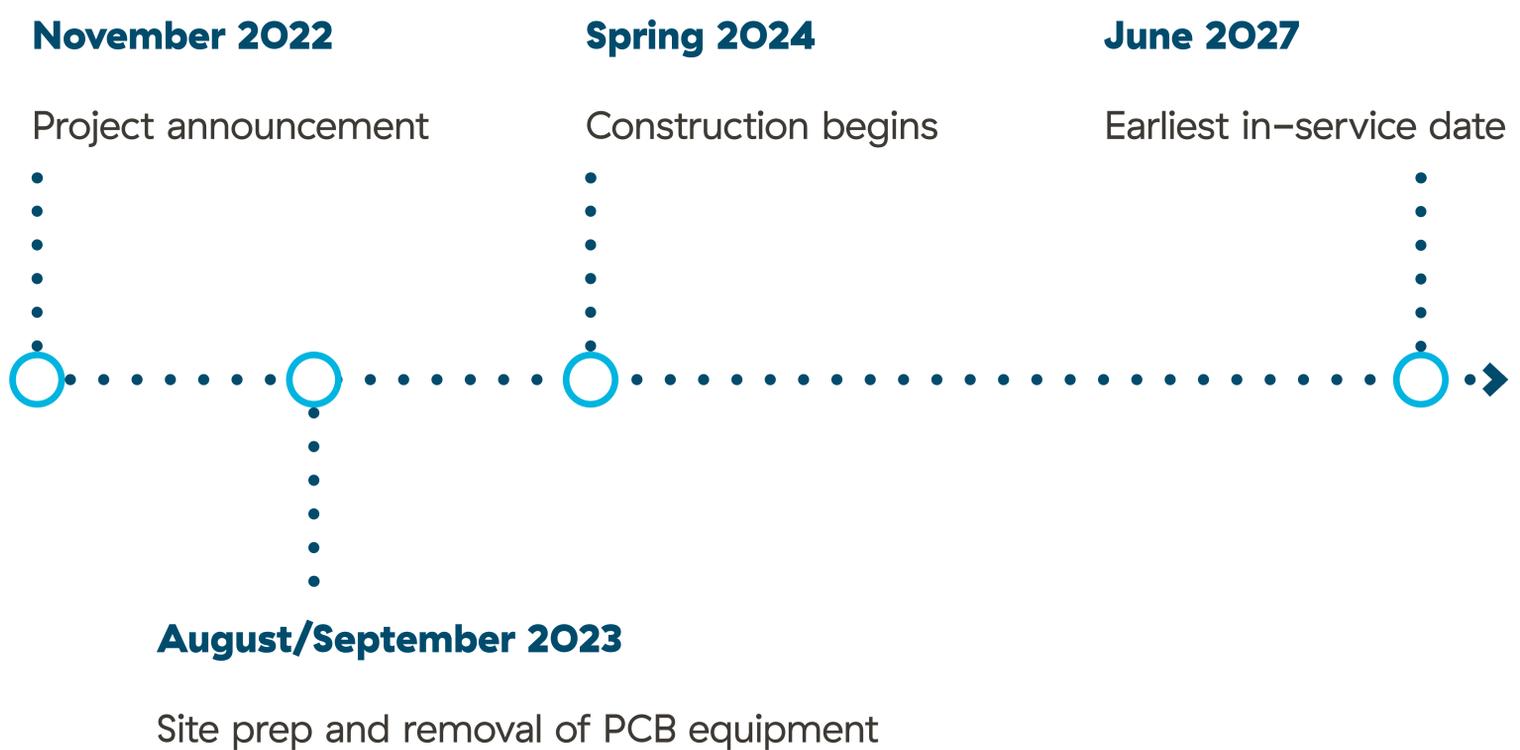
- Consultation began in early 2022.
- We're collaborating with Lil'wat Nation as directed through our protocol with St'át'imc Nation to understand and address their interests throughout the life of the project and find opportunities for their participation in work at different stages.

Next steps

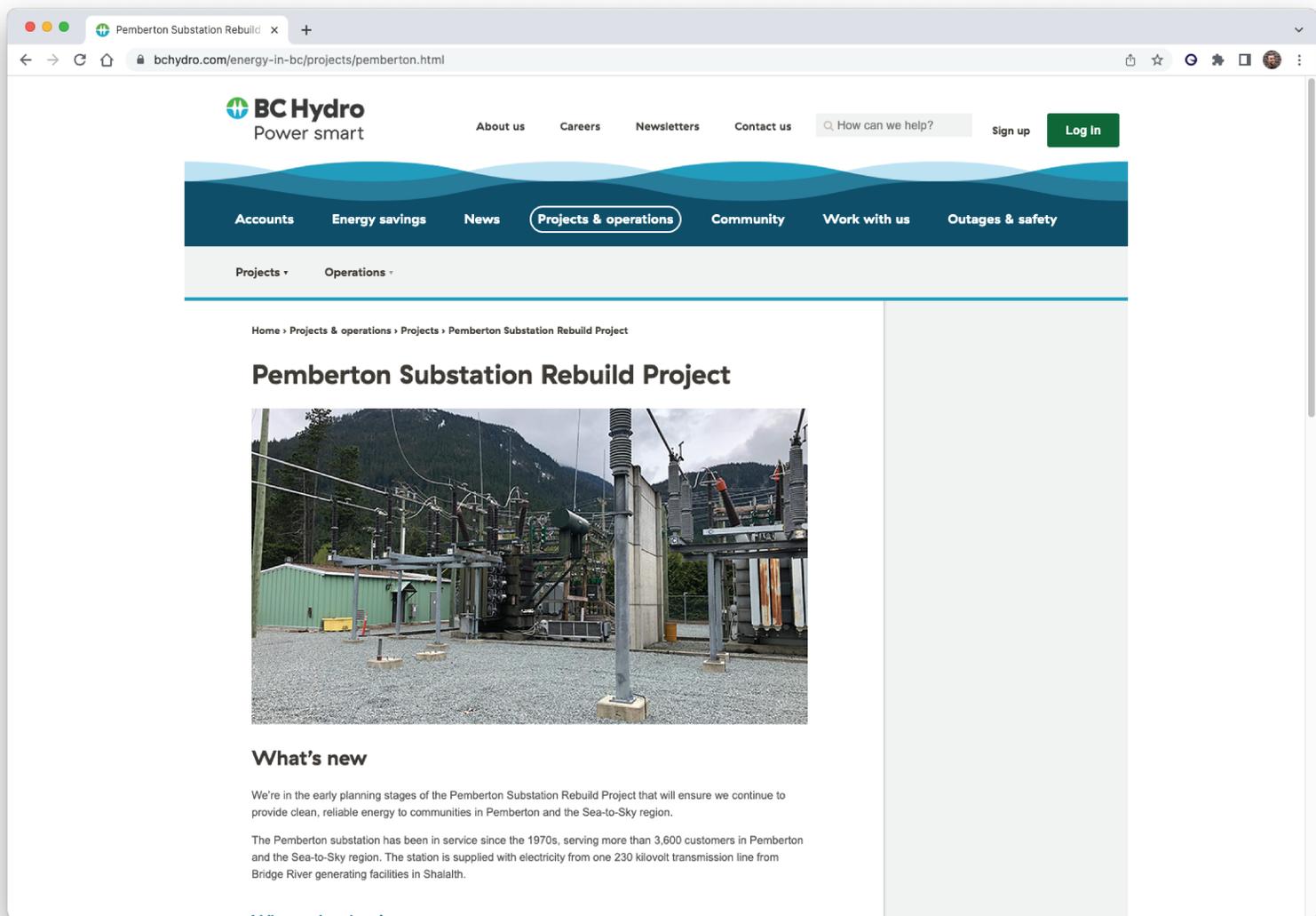
We are in the early planning stages of this project.

From now to the end of 2023, we anticipate completing the following:

- Geotechnical investigations, soil characterization, and wildlife and vegetation studies
- Substation design



Questions?



For more information on the Pemberton Substation Rebuild Project:

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Pemberton Substation Rebuild Project

 **BC Hydro**
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