

Welcome

Revelstoke 6 Project

We're here to share information about the project so you can see how it might affect you, your community, and the environment.

Is there anything else that needs to be considered?

Did we miss anything?

Is there something else you think we should do to enhance project benefits or reduce project impacts?

Overview of the project



- Revelstoke Dam was designed to hold six generating units, but only four were installed when the dam was built.
- BC Hydro recently added a fifth generating unit that began operating in 2010.
- While Revelstoke 6 probably won't be needed until about 2026, BC Hydro is pursuing regulatory approvals now in case the unit's capacity is needed sooner.
- The project involves work at Revelstoke Dam to install the sixth unit and construction of a new capacitor station near Summerland to deliver the additional power to the grid.
- The project also involves an additional water licence for 3,000 cubic feet per second to allow the facility to be operated at peak generation when needed. Although Revelstoke dam was licenced for six units when it was constructed, the newer units are slightly larger and can use more water.
- BC Hydro has applied for a water licence under the *Water Sustainability Act* which will be reviewed concurrently with the Application for an EA Certificate.

Revelstoke 6 project location



Revelstoke 6 project benefits

Jobs and Economic Benefits

Revelstoke Unit 6 would create over 400 person years of temporary employment and generate local spending of about \$45 million for goods, materials and services.

Meeting the needs of BC Hydro customers

Revelstoke Unit 6 would provide significant additional generating capacity to BC Hydro's system, approximately 500 megawatts to help meet peak demand periods.

Cost effective

Most of the investment was already made when Revelstoke Generating Station was built.

Low impact

Revelstoke Unit 6 would not involve any significant change to the facility and construction activities would be within the existing facility footprint.

Maximizing the value of BC Hydro assets

The addition of a sixth unit provides more operating flexibility.

New Capacitor Station project benefits

Jobs

Construction of the new capacitor station would create about 22 person years of temporary employment.

Meeting the needs of BC Hydro customers

The new capacitor station is needed to maintain reliability of the existing transmission system.

Cost effective

The alternatives are building a new transmission line or building two capacitor stations on other lines. These alternatives are much more expensive and higher impact.

New Capacitor Station consultation and engagement

- BC Hydro recognizes the importance of an open and meaningful consultation process through all Project phases.
- The Ktunaxa Nation, Okanagan Nation and Secwepemc Nation jointly prepared Part C of the Environmental Assessment Application with BC Hydro.
- BC Hydro is consulting with the Okanagan Nation through its Tribal Council, the Penticton Indian Band and the Westbank First Nation.
- Information about the proposed Capacitor Station has been shared with Summerland area stakeholders.
- BC Hydro continues to share information about the project. Join the project mailing list to receive updates.

Contact Jen Walker–Larsen

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Revelstoke 6 application seeks to answer questions

What are the construction activities?

Will Project construction or operation affect the environment or communities? How and how much?

How will the capacitor station be operated?

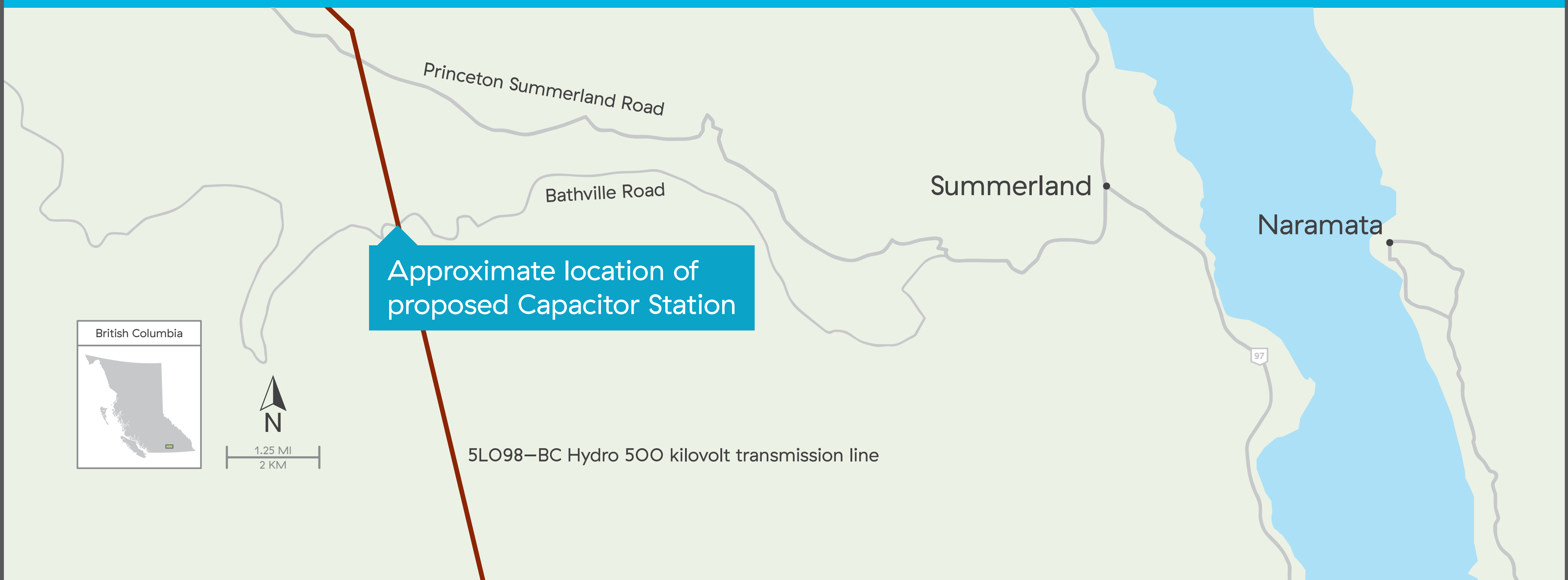
Can impacts be mitigated?

The application assesses potential effects of Revelstoke 6 and the new capacitor station on:

- Ecological Communities
- Plants
- Amphibians and reptiles (Herptiles)
- Birds
- Mammals
- Economy
- Socio-community
- Traffic
- Land and resource use
- Human health
- Historical and archaeological heritage

New capacitor station

Construction and operation



Construction Activities

- The new capacitor station would be built on existing BC Hydro property along Bathville Road, approximately 19 kilometres west of Summerland.
- The capacitor station could require clearing of approximately three to four hectares of land located below or beside the existing transmission line.
- Construction of the station would take approximately 18 months.



Operation

- The capacitor station would operate remotely with regular routine field inspections and maintenance.

Capacitor station construction and operation

key ways it could affect the environment



Potential effect	Proposed mitigation
Land clearing impacts to rare plants and wildlife	<ul style="list-style-type: none">○ Follow Environmental Management Plans○ Complete surveys to identify rare plants prior to start of construction○ Restrict vehicle use and equipment storage to designated areas○ Complete vegetation clearing outside of the bird nesting season when possible. If during bird nesting season, conduct nest surveys and apply no disturbance buffer around any active nests
Contaminant spills—silt, fuel, lubricant, concrete or other substances introduced to the environment	<ul style="list-style-type: none">○ Follow Environmental Management Plans○ Maintain construction machinery and vehicles○ Spill kits in all machines and workers educated on their use○ Designated areas for maintenance and refueling
Introduction of noxious weeds	<ul style="list-style-type: none">○ Noxious weed survey and treatment, if required, prior to start of construction○ Utilize best management practices and standards○ Construction vehicles entering and leaving work sites will be washed thoroughly to remove weeds and seeds○ Manage site according to BC Hydro standards
Project traffic—wildlife mortality	<ul style="list-style-type: none">○ Require workers to adhere to strict speed limits○ Maintain logbook of wildlife sightings, including roadkills, and post warning signs at locations with frequent wildlife crossings

Capacitor station construction and operation

key ways it could affect you and your community



Potential effect	Proposed mitigation and benefits enhancement
<p>Project traffic</p> <p>Project construction traffic along Bathville Road—768 one way trips are anticipated to occur over 80 days during the construction period</p>	<ul style="list-style-type: none">○ Require workers to adhere to strict speed limits
<p>Visual quality</p> <p>The new capacitor station site and structures could potentially affect visual quality from one key viewpoint</p>	<ul style="list-style-type: none">○ Minimize disturbance of existing vegetation screening○ Apply and maintain built structure surface treatments
<p>Archaeological resources</p> <p>Although an Archaeological Impact Assessment did not identify any heritage resources at the proposed site, there is always some potential for ground disturbance to impact unknown archaeological sites</p>	<ul style="list-style-type: none">○ Under discussion with affected First Nations
<p>EMF and Human health</p> <p>The calculated electrical and magnetic field values from capacitor station operation are well within the World Health Organization established EMF thresholds</p>	<ul style="list-style-type: none">○ None proposed