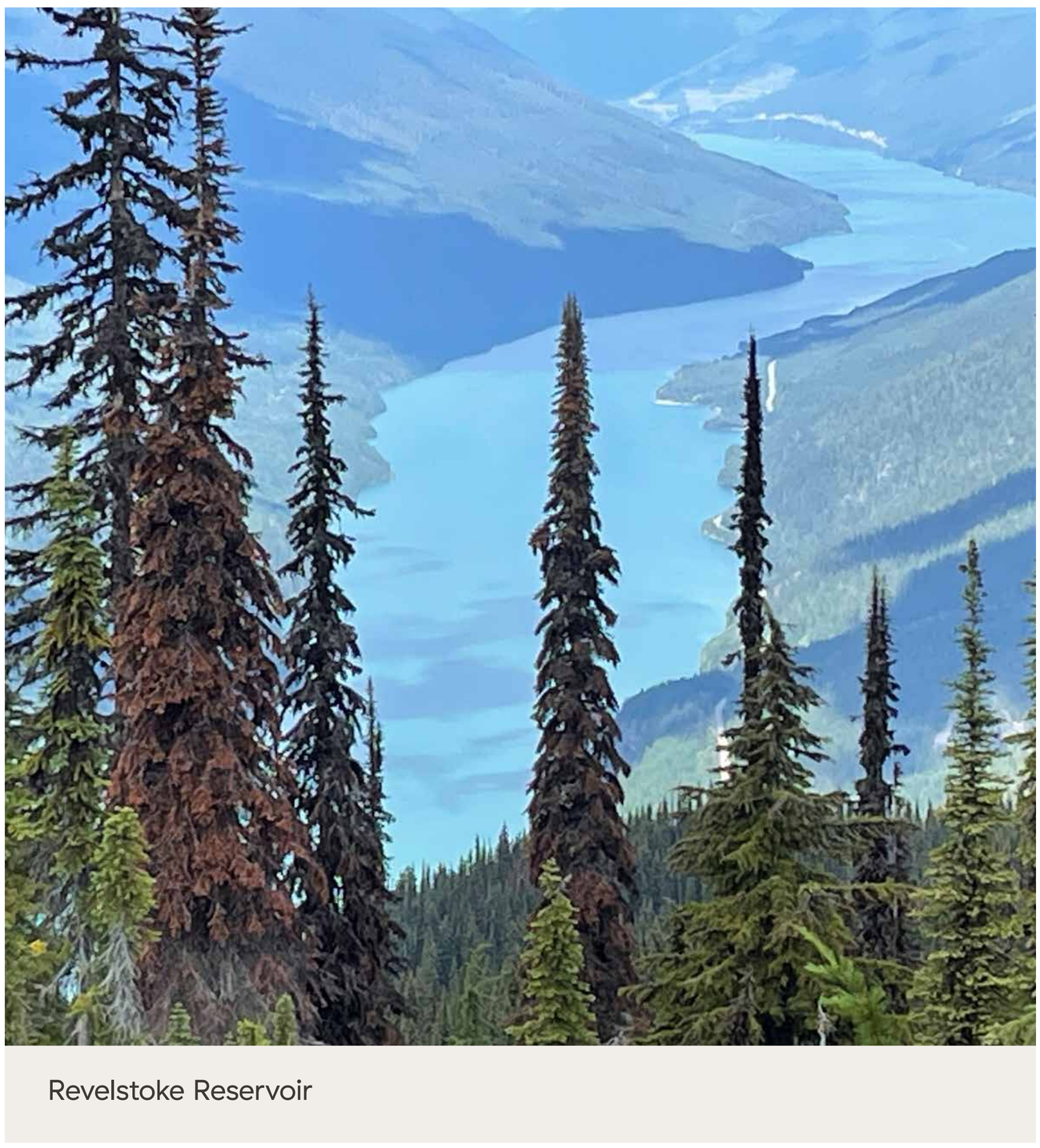
Welcome

We're adding a sixth generating unit at Revelstoke Generating Station to:

- Support electrification
- Meet peak demand
- Add renewable energy sources to our system

Please review the storyboards to learn more about the project.

Project team members are here to answer your questions.



Revelstoke Reservoir

BC Hydro recognizes that the Revelstoke facility is built on the unceded traditional territories of the syilx Okanagan Nation, Secwépemc, and ʔamakʔis Ktunaxa.

We acknowledge the impacts that BC Hydro's system and operations have had on these Nations and the land they have made use of since time immemorial. We share in the responsibility to act as stewards for the land and care for its resources.

Revelstoke Dam and Generating Station

Revelstoke Dam and Generating Station are located on the Columbia River, 5 kilometres upstream from the City of Revelstoke.

The facilities are part of our Columbia system with Revelstoke Reservoir and Mica Dam located upstream and the Hugh L. Keenleyside Dam and Arrow Lakes Reservoir downstream.

Revelstoke Generating Station was built to house six generating units; four units were installed at the time of construction in 1984 and the fifth was added in 2010.

Electricity generated by the plant is delivered to the grid by two parallel 500 kilovolt transmission lines that run from Revelstoke Generating Station to the Ashton Creek substation near Enderby.

Project Overview

The Revelstoke Generating Station Unit 6 project will install the sixth generating unit into an existing bay at Revelstoke Generating Station.

The project received an Environmental Assessment Certificate (EAC) from the BC Environmental Assessment Office (EAO) in 2018 following extensive consultation with First Nations and stakeholders.

- The EAC includes a Certified Project Description as well as the conditions which must be met for the project to proceed.
- The project has to substantially start construction by November 2028.
- We're working to implement the project conditions and advance the project.

We received a new water licence for the project in 2019 to operate the facility at peak capacity, as needed.

Construction will start in spring 2026 and the target in-service date is December 2032.

Project Benefits

Revelstoke Unit 6 will add 500 megawatts (MW) of generating capacity to BC Hydro's system to help support electrification, meet peak demand, and support the addition of renewable energy sources.

JOBS AND ECONOMIC BENEFITS

- Project construction will create 450+ person years of temporary employment and generate local spending of about $60 million for goods, materials, and service.

MAXIMIZING THE VALUE OF BC HYDRO ASSETS

- We're making optimum use of an existing facility by adding the sixth and final generating unit.
- This project will give us more flexibility in how we operate and manage our system in the event of outages and respond to periods of uncertainty (e.g., extreme weather events or unplanned outages).

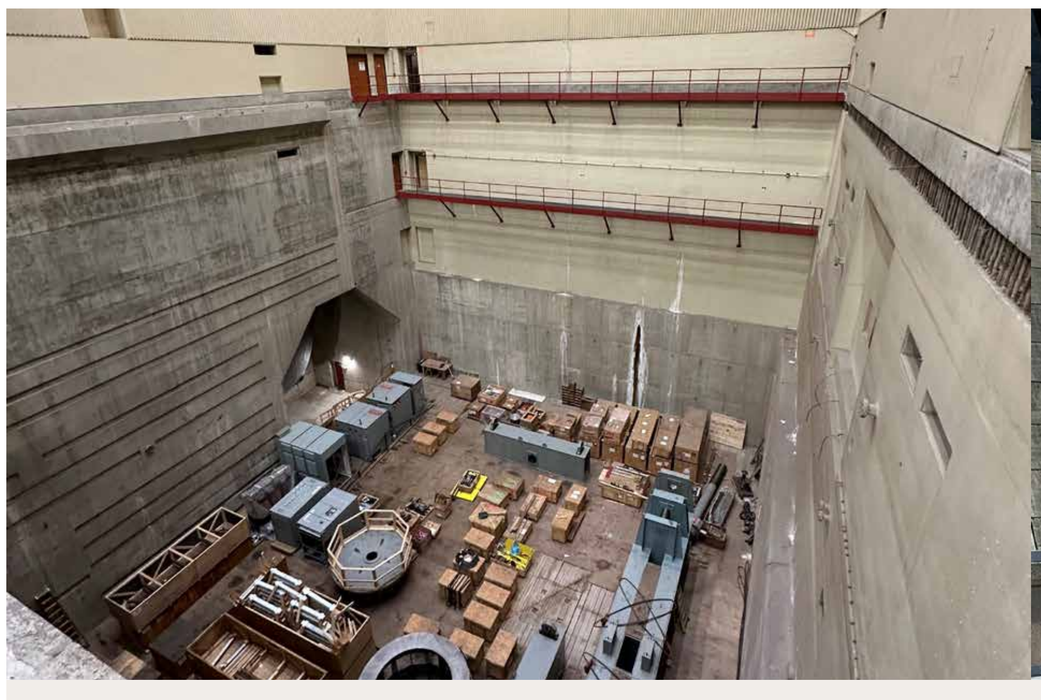
COST EFFECTIVE

- This is the most inexpensive way to add 500MW to our system.

MINIMIZE FOOTPRINT

- Revelstoke Unit 6 won't involve a significant change to the facility and construction activities will be within the existing facility footprint. The space for the generator is already built and it just has to be installed.

Revelstoke Unit 6



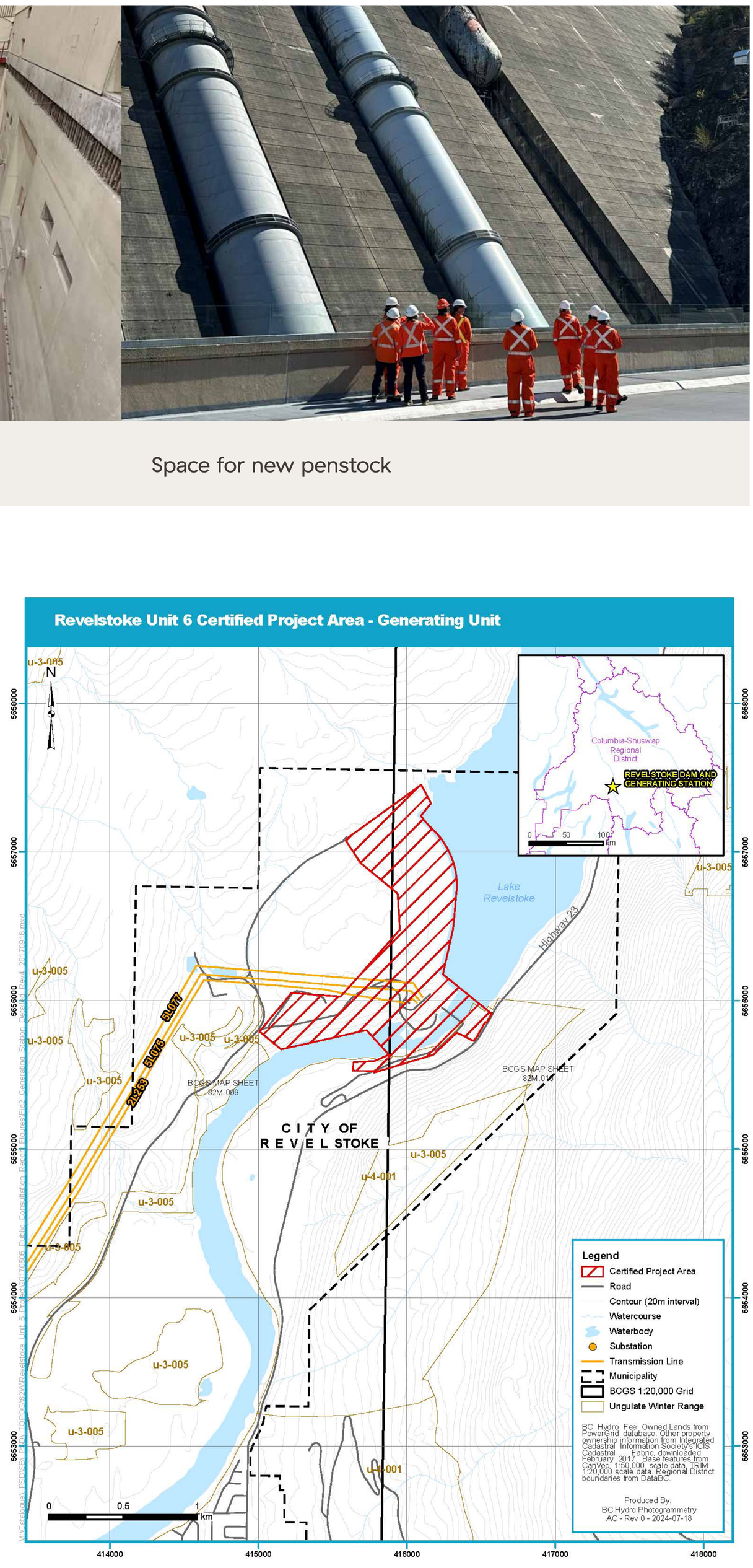
Existing turbine bay

Space for new penstock

Key project components:

- A 500 megawatt (MW) generating unit in an existing turbine bay at Revelstoke Generating Station
- A sixth steel penstock on the face of the dam
- A generator transformer, switchgear, and ancillary mechanical and electrical equipment in the existing powerhouse

The red hatched area in the figure to the right is where the key Revelstoke Unit 6 components will be located and where project activities will take place.



Revelstoke Unit 6

Key activities at the Generating Station site will include:

- Site preparation and construction of a new warehouse
- Penstock construction
- Civil construction
- Turbine and generator installation
- Gas Insulated Switchgear modifications
- Electrical and mechanical equipment supply and installation
- Testing and commissioning

Construction is expected to start in Spring 2026 with left bank rock fall fencing and a new permanent warehouse next to the existing warehouse.

Project work will take place within the fenced property boundary of Revelstoke Generating Station and use the same construction and laydown areas used for the Revelstoke Unit 5 Project.

Project traffic will use Westside Road and Highway 23N for site access.

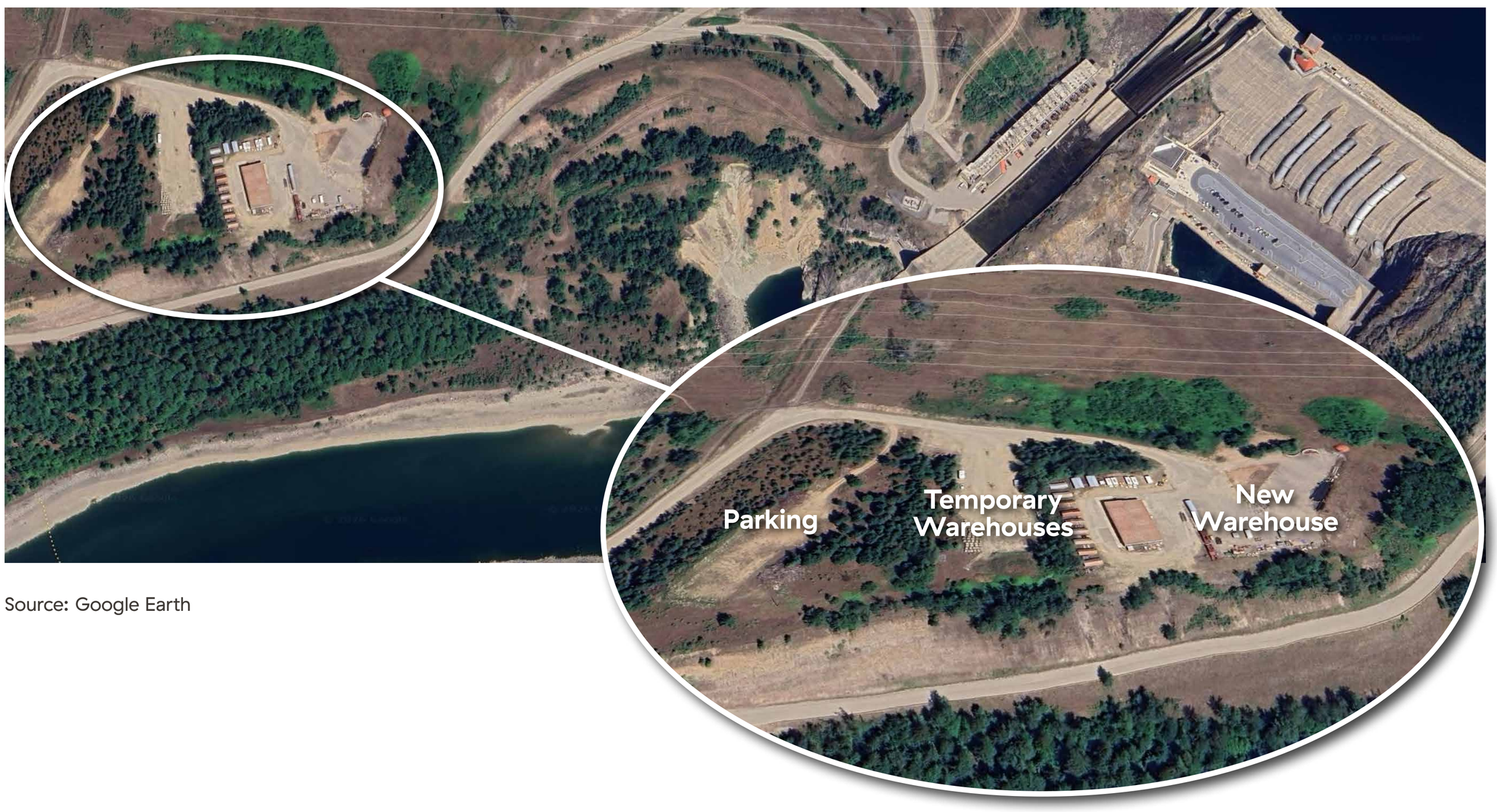
Permanent Warehouse

We'll build a permanent warehouse to store spare parts and equipment currently stored in the Unit 6 pit inside the generating station and in the existing warehouse.

In future, we'll also store spare parts for Unit 6 in the warehouse.

Once the warehouse is complete, we'll use the existing warehouse for contractor staging during REV 6 construction and for other capital work.

The new warehouse will be located in the same area as the existing warehouse.



Source: Google Earth

The contract for the new warehouse will be awarded in April 2026 and work will proceed as follows:

Spring – Summer 2026	Warehouse design, material procurement, and site investigations (e.g., geotechnical and site surveys)
Fall 2026	Start site preparation and civil construction, including concrete work and underground support services
Spring – Summer 2027	Complete construction of underground support services as well as structural, mechanical and electrical work

The workforce at site will peak at about 35 people in Fall 2026 and at about 55 workers in Spring 2027.

Workers will stay in the community, using existing accommodations.

The site will be accessed via Westside Road.

Left Bank Rock Fall Fencing

We'll install rock fall fencing on the left bank to ensure that construction can proceed safely by preventing rocks from falling into the penstock work zone.

The left bank is located below Highway 23 and adjacent to the face of the dam as shown in the figure below.

Source: Google Earth

To protect the work area and workers we'll install three fences on the upper left bank and full pinned mesh screen on the lower section.

We plan to award the contract for the rock fall fencing in April 2026 and work is planned to take place between June and October 2026.

Helicopters will be used to drop supplies to staging areas on and near the left bank.

The visitor centre at the dam will remain open during construction; however, a portion of the parking lot will be used for trailers and setup.

Approximately 13 workers will be involved in installing the rock fall fencing.

Workers will stay in the community, using existing accommodations.

Site access will be via Highway 23.

Other 2026 Activities

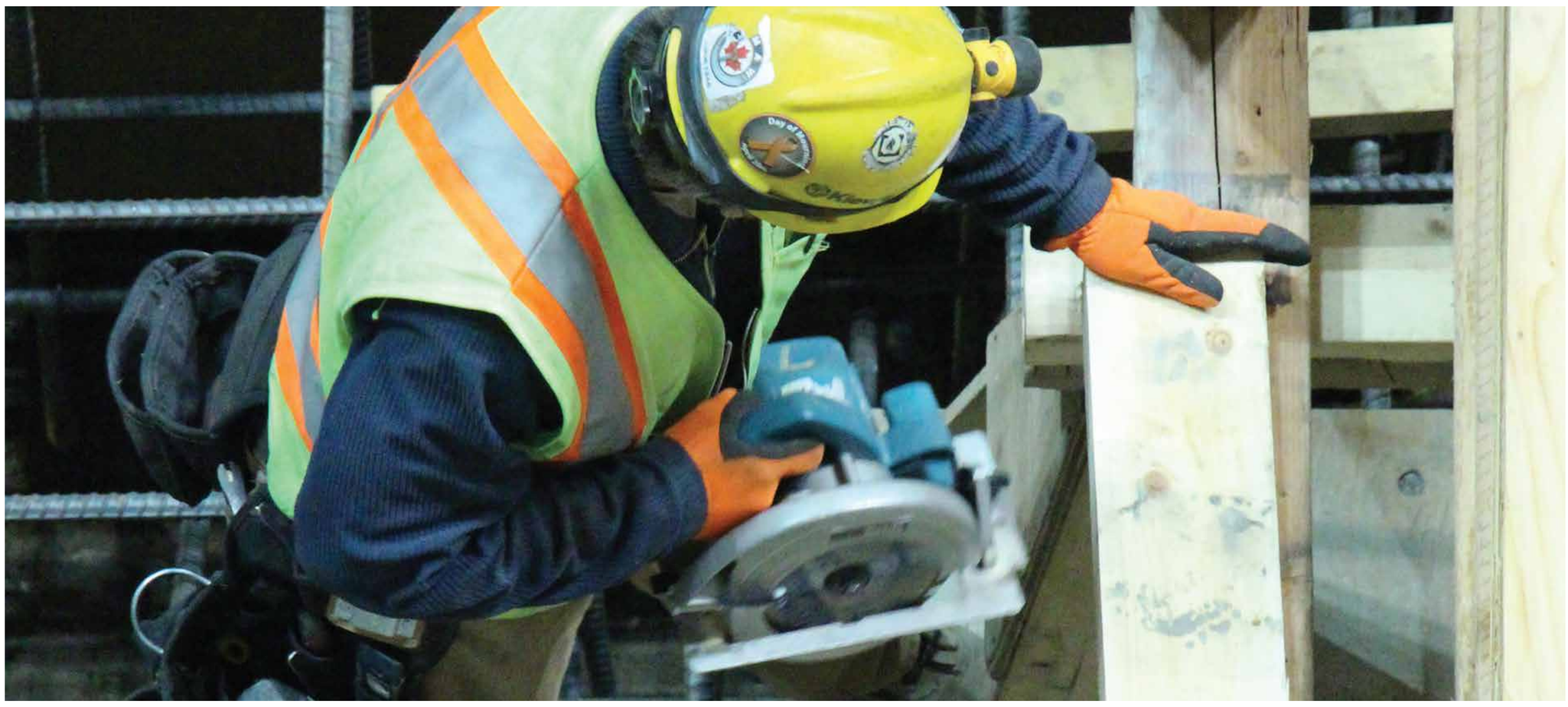
In 2026 we will

- Install construction offices and trailers at a number of sites:
  - near the visitor centre at the dam
  - in the warehouse area
  - in other areas as needed
- Upgrade the parking lot at the visitor centre so that we can plow the roof in the winter
- Issue the Penstock Construction Request for Proposals on BC Bid in the spring
- Advance the contract for turbines and generators which is expected to be in place in Fall 2026

Rev 5 penstock work

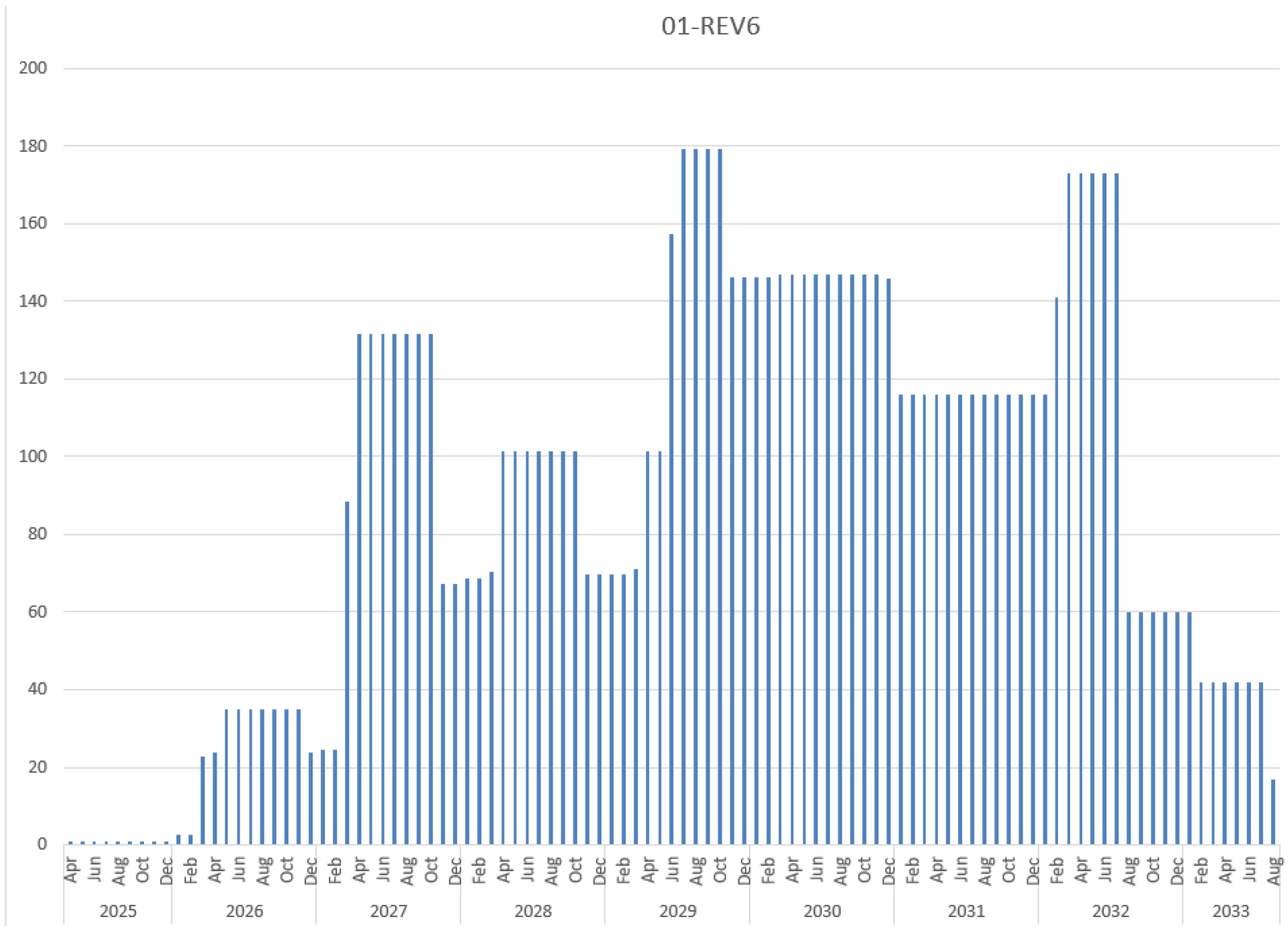
In Spring 2027 we will issue the Civil Works Request for Proposals on BC Bid.

Project Workforce



Construction of Revelstoke Unit 6 will create 450+ person years of temporary employment.

Worker requirements for the project are forecast to be as shown in the figure below.



Requirements will be refined as project planning advances.

Traffic

During construction, there will be an increase in traffic in the Revelstoke area and, in particular, along Westside Road.

A number of steps will be taken to address this increases including:

TRAFFIC MANAGEMENT PLAN

- We've developed and will implement a Traffic Management Plan (TMP) based on the Province's 2020 Traffic Management Manual for Work on Roadways.
- This Plan includes measures for traffic control, restricting access to active construction sites, public communications, wildlife mortality prevention, incident management and response.

PUBLIC COMMUNICATIONS PLAN

- Along with the TMP, and similar to what we did for Revelstoke Unit 5, we're developing a Plan to:
  - communicate traffic related information to the public, emergency response providers, and other Westside Road users
  - work with Ministry of Transportation and Transit (MoTT) to address concerns related to Ministry infrastructure, as required

MONITORING AND ADDRESSING ROAD CONDITIONS

- We'll monitor Westside Road conditions during construction and work with the City to determine if funding for repair or maintenance or other mitigation is needed as a result of project road use.

Housing

Incoming workers and BC Hydro staff relocating to Revelstoke will require housing during construction and will be housed in the community.

COLLABORATING TO ADDRESS HOUSING NEEDS

- We're working with the City of Revelstoke (City) and the Revelstoke Community Housing Society (RCHS) to reduce potential impacts on accommodation supply.
- To support this objective, BC Hydro has provided funding to RCHS to advance planning for housing units.

ONGOING ENGAGEMENT

- We will continue working with the City, RCHS, and others to identify options for housing our workforce and to identify any unforeseen impacts on local housing during project construction.

In 2026, workers will be housed in existing accommodation in the community. We anticipate that the 2026 workforce will peak at about 50 workers in Fall 2026.

FUTURE PROJECTS

- We will be undertaking other projects in the Revelstoke area and will review housing options for these projects as planning advances.

Employment

Revelstoke Unit 6 construction will provide employment opportunities for:

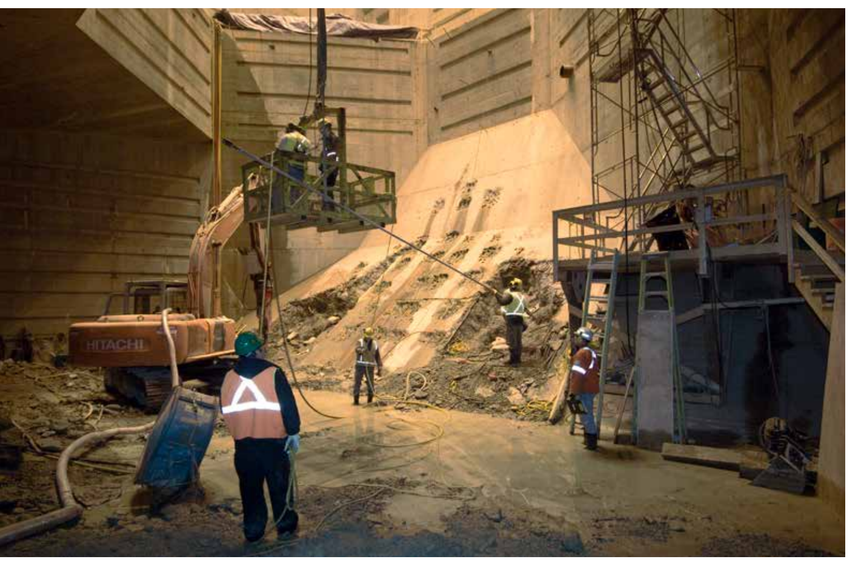
- Labourers
- Electricians
- Communication, Protection and Control (CPC) Technologists
- Winders
- Millwrights
- Equipment Operators
- Crane Operators
- Metal Workers
- Carpenters
- Machinists
- Boilermakers
- Iron Workers
- Pipe Fitters
- Cement Masons
- Painters
- Other Miscellaneous Trades
- Contractor's Staff
- BC Hydro Staff
- BC Hydro Apprentices

The Project will hire construction tradespersons, operators, labourers, technicians, administration staff and supervisors under the provisions of the Columbia Hydro Constructors (CHC) Agreement which will be used for most workers for Revelstoke Unit 6.

This union agreement:

- Gives first preference to workers living within a 100 km radius of the project site and second preference to those living in the Columbia basin
- Has hire provisions for qualified workers who are First Nations
- Has equity hire provisions for women in non-traditional roles, visible minorities, and/or disabled

BC Hydro will also hire staff directly to work on the project. All jobs with BC Hydro will be posted on **bchydro.com**



Columbia Hydro Constructors

Boilermakers Lodge 359	
Boilermaker Welder	Boilermaker Fitter
Bricklayers & Allied Craft Workers Local 2	
Terrazzo Mechanic	
CMAW Local 1346 and BCRCC Local 1907 (Carpenters)	
Carpenter	
Cement Mason Local 919	
Cement Mason	
IBEW Local 993 (Electricians)	
Inside Wire	Winder
Ironworkers Local 97	
Ironworker (Rebar)	
CSWU Local 1611 (Labourers)	
Security Guard	First Aid Attendant
Labourer	Vibrator
Swamper	High Scaler
Driller's	Groutperson
Driller's Helper	
Millwright Local 2736	
Millwright	
MoveUp Local 378 (Office & Technical)	
Clerk (clerical)	Inspectors
Quantities Technician	Environment Technician
Surveyor	
Operator Engineers Local 115	
Front End Loader	Concrete Pump Operator
Overhead Crane Operator	Boom Truck
Crane Operator	Forklift
Oiler/Crane Apprentice	Zoomboom
Painters	
Painter	
Plumbers & Pipefitters Local 170	
Fitter	Sprinkler Fitter
Welder	
Sheet Metal Local 280	
Sheet Metal Worker	Sheet Metal Welder
Teamsters Local 213	
Warehouse Person	Bus Driver
Boom Truck	Pick up Truck
Zoomboom	

Actual positions will be determined as the contractors are hired.

Each classification should not be considered a full-time position. For example, one teamster may perform all the positions listed.

There will also be apprentices for all the Trade Qualification required trades (e.g., electricians, mechanics).

How to get a job with Columbia Hydro Constructors

You can apply directly to CHC or apply to join a union.

Applying with CHC

You will be able to apply for work directly with CHC closer to the CHC work starting on site. CHC's email address will be provided approximately six months before CHC work commences on the project. Resumes will not be accepted until then.

Joining a Union

Each union will have different criteria for joining, but generally:

- Fill out an application to join, listing experience, schooling, tickets, etc
  - Applicants need to have a BC Provincial Trade Qualification Ticket or an Interprovincial Red Seal ticket if the trade requires it
  - It's a benefit to have general certificates, for example, WHIMIS, First Aid, Fall Arrest, etc.
- Union will review application and accept or not depending on the workers capabilities, demand for workers and existing union membership
- If accepted, the person would have to pay an initiation fee normally around $200 to $500, and monthly due
- If a trade union, the worker would be placed on the out-of-work list to be dispatched to job's throughout BC or beyond
- When the person starts working, the company will deduct hourly working dues and remit to the union on their behalf

Training

BC Hydro is:

Working with major employers, educational institutions and economic development agencies to support alignment of recruitment and training initiatives, including:

- Discussions with Chamber of Commerce
- Discussions with School District 19 regarding work experience, job shadowing, etc
- Discussions with Okanagan College regarding trades programs to support the project
- Potential apprenticeship positions with contractors hired for the project or with BC Hydro

Working with First Nations to implement a Training, Employment and Procurement Plan with measures to enhance hiring and retention of First Nation' members, including:

- Helping connect First Nations candidates with job opportunities
- Supporting career development through BC Hydro's Indigenous Career Exploration Program
- Establishing a scholarship or bursary program to support First Nations community members acquiring skills and training for the project
- Supporting First Nations' businesses being prepared for project procurement opportunities

Providing a financial contribution to support project related training:

- Establishing a scholarship or bursary program to support secondary school students acquiring skills and training for the project
- Support the Youth Work in Trades Program and Youth Train in Trades Program at Revelstoke Secondary School and other interested secondary schools within 100km of Revelstoke
- Provide work experience opportunities to secondary students to gain 100 hours of worksite experience at the Revelstoke Generating Station
- Supporting Okanagan College in providing trades programs in the region to support the project

Procurement

Construction work for the Revelstoke Unit 6 Project will be completed by independent contractors through several large contracts awarded according to BC Hydro's procurement policies. It is estimated that Revelstoke Unit 6 will result in local spending of about $60 million for goods, materials and services.

Based on the experience of the Revelstoke Unit 5 and Mica Units 5 and 6 projects, the following types of goods and services could be supplied to the Project, at least in part, by local and First Nations owned and operated enterprises:

- Accommodation
- Restaurant
- Grocery store
- Snow removal
- Aggregates
- Busing, trucking, and other transportation
- Avalanche monitoring and risk reduction
- Paving and asphalt repairs
- First aid
- Waste water removal
- Crane inspection and testing
- Vegetation removal
- Concrete
- Catering services
- Miscellaneous equipment rentals
- Miscellaneous electrical services
- Ground penetrating radar (GPR) scanning
- Surveying services
- Excavation services
- Security services
- Safety equipment and consulting
- Miscellaneous building supplies
- Miscellaneous plumbing services
- Water treatment services
- Construction management and engineering

We are working:

- To enhance procurement of materials, goods and services supplied by local suppliers by working with suppliers to identify ways to increase the involvement of local businesses in economic opportunities associated with the project
- With First Nations to develop a First Nations Training, Employment and Procurement Plan

Information on how to access procurement opportunities, including for those items identified in the table above, will be available on the project website (www.bchydro.com/revelstoke6) as the project advances.

Environment and Archaeology

We developed the following plans in consultation with BC Ministry of Water, Land and Resource Stewardship and First Nations to address potential project effects. The plans have been approved by the Environmental Assessment Office for implementation.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

- Provides environmental requirements, standard protocols, and mitigation measures that will be required at minimum to reduce potential for adverse environmental effects during construction

WILDLIFE PROTECTION PLAN

- Describes mitigations that will be implemented for the protection of wildlife and wildlife habitat during project construction and operations

ARCHAEOLOGICAL AND HISTORICAL HERITAGE RESOURCES PLAN

- Provides performance-based heritage requirements, standard protocols, and mitigation measures to reduce potential effects to heritage resources during construction and operations

INDEPENDENT ENVIRONMENTAL MONITOR TERMS OF ENGAGEMENT

- Sets out the role, responsibilities, qualifications of the independent environmental monitor
- Describes communications and reporting processes and requirements

Environment and Archaeology

The following plans will be developed in consultation with the BC Ministry of Water, Land and Resource Stewardship and First Nations prior to the start of operations.

OPERATIONS ENVIRONMENTAL MANAGEMENT PLAN

- Will address management of human–wildlife conflict, invasive plants, access, and emergency response

WATER MONITORING PLAN

- Describes monitoring to be implemented during operations – discharge from the Revelstoke Dam; water levels in Revelstoke Reservoir, mid–Columbia River and Arrow Lakes Reservoir; channel and bank erosion

FISH AND FISH HABITAT MONITORING AND MITIGATION PLAN

- Provides standard protocols and mitigation measures to reduce the potential for adverse effects to fish and fish habitat during operations

Schedule and Next Steps

Task	Timing
Community Monitoring Committee first meeting	February 2026
Confirm how accommodation will be provided	Spring 2026
Construction starts	Spring 2026
Next Open House	Fall 2026
Left bank rock fall fencing and new warehouse	2026
Warehouse completion, start of penstock and intake operating gates	2027
Project construction substantially started	November 2028
Project in-service	Target – December 2032

View of Pit 6 area showing currently stored equipment and the existing bottom stub for the Unit 6 penstock.

Potential effects of Revelstoke Unit 6 Operation on Revelstoke Reservoir

Revelstoke Reservoir will continue to be operated within its normal range and show only minor changes with a sixth generating unit.

Potential effects of Revelstoke Unit 6 Operation on the Columbia River Downstream of Revelstoke Dam

Average flows downstream of Revelstoke Dam will remain the same with Revelstoke Unit 6 but the pattern of discharge will differ slightly from current operation.

Flow	Volume	How Often These Will Occur Compared to Now
Low	Below 12,000 cfs*	About the same amount of time
Medium	12,000 to 60,000 cfs	Less often
Higher	Over 60,000 cfs	More often
High	Over 75,000 cfs	Less than 1% of the time

*cubic feet per second

During high flows the water level would be up to 0.5 m higher immediately below the dam and the level would decrease with distance downstream to where it wouldn't be measurable:

- Typical high July reservoir levels – 8 km downstream
- Typical low January reservoir levels – 15 km downstream

Thank you for attending!

Please complete a comment form and leave it at the entrance table or email us at projects@bchydro.com with your comments and questions.

We'll continue to keep you informed as the project advances.

If you have any additional questions or comments about the project please feel free to contact us or visit the project webpage:

- **Email:** projects@bchydro.com
- **Phone:** 1 866 647 3334
- **Webpage:** www.bchydro.com/revelstoke6