Bridge (Shalalth) – Seton (Lillooet) Capital Investment Update

June 2023



Agenda

- Bridge River System Overview
- Capital Plan Update
- Access and Accommodation Studies
- Workforce
- Communications

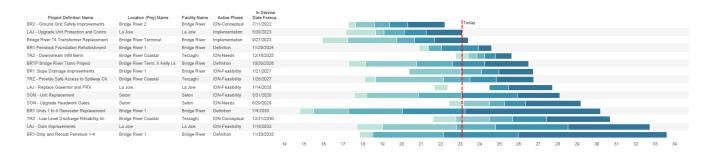


Bridge River System Carpenter Reservoir Gun Creek Gun Lake La Joie Dam Bridge River Terzaghi Dam Downton Reservoir Bridge 1 Powerhouse Bridge 2 Powerhouse Lillooet Seton Lake Seton Dam and Powerhouse Anderson Lake British Columbia Pemberton Lytton CS-3370



Capital Plan Summary

BC Hydro Capital Projects in the region



This timeline is being used for presentational purposes only. These are the planned projects for the area and are subject to change.

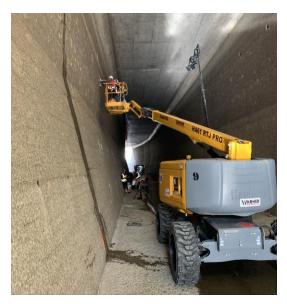


Overview of Seton Generating Station with Bypass Alignment





Capital Plan Summary - Seton



Crews extracting coring samples in Seton Canal, spring 2022

Seton Bypass Project

- The generator and turbine are nearing end of life
 - Generator was installed in 1956; the turbine was replaced in 1977
- A bypass will provide long-term benefits for water conveyance in the Bridge River system
- Project planning is currently underway
- It is subject to BC Utilities Commission (BCUC) approval
- Targeted completion for the bypass is 2027, unit replacement schedule is under review



Capital Plan Summary - LaJoie



LaJoie Dam with Downton Reservoir in the background and a 25 MW powerhouse in the foreground

LaJoie Dam Improvement Project

Recommended leading alternative: improve dam to full reservoir level

- The project will address dam safety risks related to aging and seismic vulnerabilities
- Received conditional endorsement from St'át'imc Authority for the leading alternative
- It is subject to British Columbia Utilities Commission (BCUC) approval
- Construction is targeted to begin 2027 and targeted completion is 2032
- Construction will require very low water levels in Downton Reservoir to enable the work



Capital Plan Update - LaJoie



Crews investigating at the toe of LaJoie Dam during the April 2022 drawdown

Downton Reservoir Drawdown, April 2022

- Upstream investigations were conducted for ~10 days
- Reservoir was lowered to 699m-700m (~10m below normal low levels) for one month
- Levels returned to normal operating ranges within 3 weeks
- Findings are being incorporated in design and construction planning



Capital Plan Update - LaJoie



LaJoie Dam powerhouse

Next Steps: Continue development and assessment of design options

- Undertake site investigations at the powerhouse and dam (including drilling at the dam)
- Carry out field studies (environmental, archaeological, etc.)
- Advance Access & Accommodations strategy



Capital Plan Summary – Bridge River 1



Aerial view of Bridge River Generating Station - Unit 1

Upgrading Bridge 1 Units 1 to 4

- Built in 1948, Generating Units 1 to 4 require upgrading as they are nearing end of life
- Certificate of Public Convenience and Necessity (CPCN) granted by the British Columbia Utilities Commission (BCUC) October 2022
- Construction is scheduled to begin in 2026
- Targeted completion is July 2030



Capital Plan Summary – Bridge River 1 and 2



The newly commissioned Unit 7 generator at Bridge 2

Bridge River Generating Station 1 Additional Key Projects:

- Units 1- 4 Penstock Internal Recoating planning currently underway, targeted completion in 2033
- Penstock Foundation Upgrade planning underway, completion targeted for 2024

Bridge River Generating Station 2 Key Projects:

- Units 7&8 Unit 7 Generator completed November 2022

Power smart

Capital Plan Summary - Transmission



Transmission line 2L90 overlooking Seton Lake

Bridge River Transmission Project

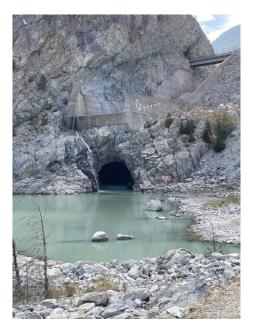
- The project is required for upgrades and repair work on an existing transmission line in the region (2L90)
- Spring 2023, four temporary heli-pads were installed to allow crews to access the area for upcoming investigations
- Certificate of Public Convenience and Necessity (CPCN) filed with the BC Utilities Commission (BCUC) July 2021
- An updated application will be filed in spring 2024
- Targeted completion for late 2026

Bridge River Transmission Substation – T4 Transformer Replacement Project

 T4 transformer anticipated to be in-service for December 2023



Capital Plan Summary - Terzaghi



Terzaghi spillway and low-level discharge outlet

Terzaghi Dam Spillway Chute Access Improvement Project

- Project will make the repair and inspection of the spillway safe for workers
- Construction is planned for 2024, targeted completion 2025
 - Intermittent road closures will be required along Mission Mountain Road

Terzaghi Dam Low Level Discharge Reliability Project

 The project will improve reliability of the low-level outlet system.

Power smart

Project is in early planning stages, targeted completion 2030

BC Hydro

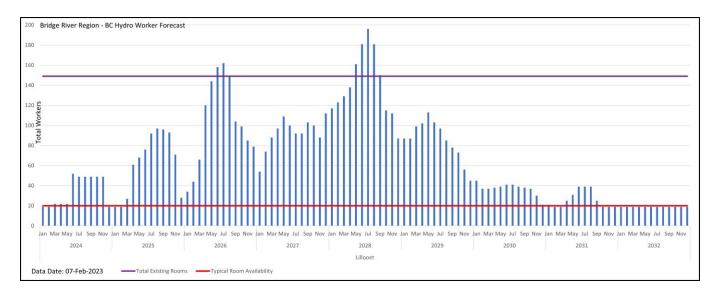
Access and Accommodation Studies



- In the Bridge River region we're studying:
 - Transportation
 - Access
 - Worker accommodation
 - Socio-economic impacts and business opportunities
- This is an important opportunity for local communities, organizations, businesses and the public to better understand how BC Hydro operates in the region and find collaborative solutions
- Expected study completion is 2024



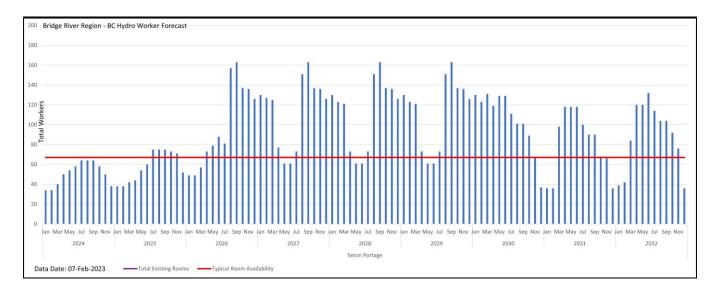
Workforce Forecast - Lillooet



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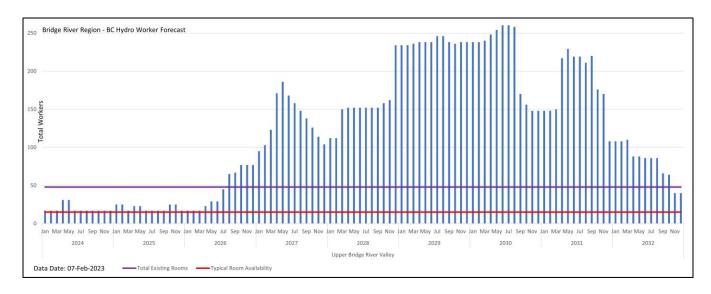
Workforce Forecast - Seton Portage



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Workforce Forecast – Upper Bridge River Valley



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First Nations - Consultation



Field work for the Bridge River Transmission Project

The Bridge River system is located entirely in St'át'imc Nation Territory.

In 2011, St'át'imc, BC Hydro and the Province signed an historic agreement that addressed past impacts and provides a framework for creating a new, more positive, relationship into the future.

As projects move forward, we're collaborating at various levels to better understand and integrate St'át'imc perspectives and interests into our planning, and to work together to identify meaningful economic and employment find opportunities across the projects.



Communications



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Questions?

