LaJoie Dam Improvement Project

Lillooet Open House

December 2020
Agenda

- Introduction and housekeeping
- Bridge River System Overview
- Presentation: LaJoie Project
  - Project Overview
  - Schedule
  - Economic Opportunities
  - Q & A
BC Hydro is making significant capital investments in the Bridge River system facilities.
LaJoie Dam Upgrade

Lillooet Open House
November 2020
Project Overview

• We’re in the early planning stages of the LaJoie Dam Improvement Project.
• Parts of the dam are nearing the end of their life.
• Upgrades are needed to ensure the facility continues to operate safely.
• We’re currently considering alternatives to address these concerns.
Why is this project important?

- The LaJoie Dam is at the top end of the system and has a major influence in the watershed
- It is the biggest project in the Bridge River capital plan
LaJoie Dam Improvement Project

1036 m long

87 m High
Seismic Issues

A large earthquake would cause extensive damage or failure of intake tower

- Could occur at ~ 5,000-yr earthquake

Reduced Operating Level

Conduits assessed to be ok

Water passage under dam could be blocked

- No ability to draw reservoir down after earthquake
Project Alternatives

The LaJoie Dam Improvement Project is in the early stages.

The following alternatives are currently being considered:

• Do Nothing (deferral).
• Return to normal reservoir levels
• Stay at reduced reservoir levels
• Decommission the dam
Project Alternatives

Truescape Demo
Identifying a Leading Alternative

• Safety
• Environment
• Cost
• Socio-economic
• Stakeholders
• Geotechnical/Engineering
Economic Opportunities

- As we’re at the very early stages of the project, we haven’t identified what opportunities will be available.
- We’ll share more information as we move forward with our planning.
Timeline

- **Spring 2021**: Identify recommended leading alternative
- **Spring 2024**: Confirm preferred alternative
- **Summer 2026**: Complete Preliminary design
- **Summer 2032**: Earliest in-service date
- **April 2022**: Confirm leading alternative
- **Spring 2026**: Submit Certificate of Public Convenience and Necessity application
- **Summer 2027**: Earliest start construction
Current Activities

- Identifying “leading alternative” (by spring 2021)
- Ongoing desktop studies:
  - Flow modelling
  - Archaeological overview
  - Environmental overview
Next Steps

Consultation and engagement will be ongoing throughout the LaJoie Dam Improvement Project. If you have any questions or comments on our project work, you can reach us at:

Email: projects@bchydro.com

Phone: 1 866 647 3334

You can also find the latest project information on our website - www.bchydro.com/bridgeriver
Questions?