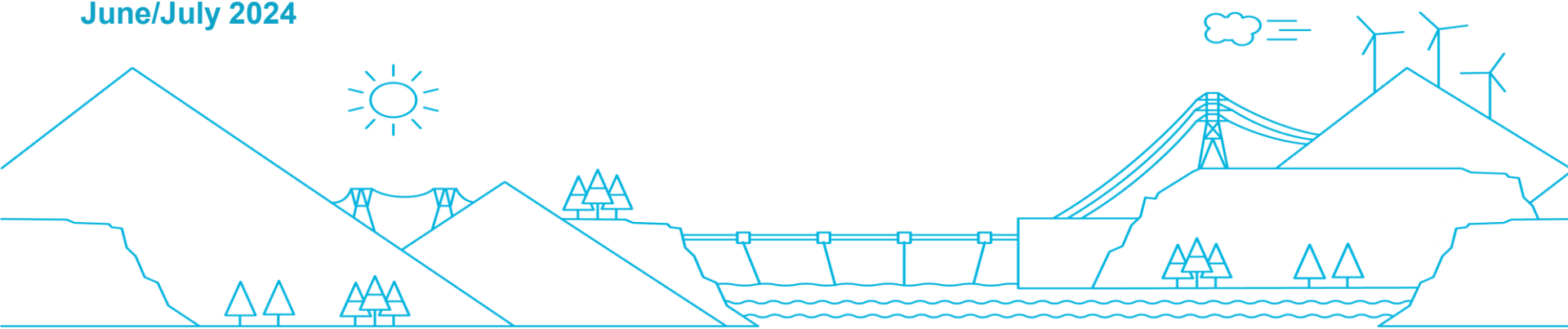
Integrated Resource Plan 2025

Phase one: gathering your input

June/July 2024



Presentation for local governments and BC Hydro customers and public

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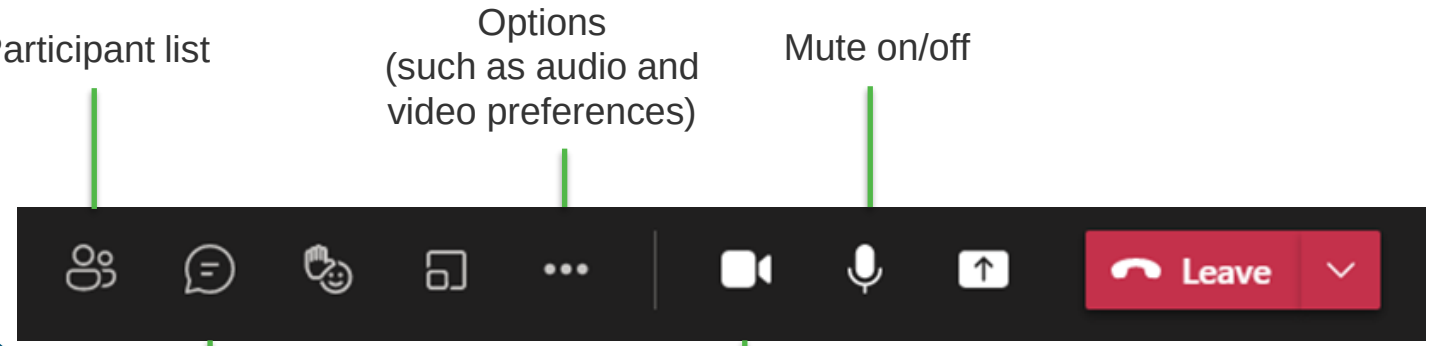
Agenda

Purpose: to learn what matters to you as we plan for the future of our power system

- What is an Integrated Resource Plan and where we're at in the schedule
- Getting started: the planning objectives
- Creating the plan: what decisions need to be made
- Wrap up and next steps

Teams meeting reminders

We'll be using a few basic tools, which you can find at the bottom of the screen



Utilize the chat to ask questions and provide feedback

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The Integrated Resource Plan

Actions we need to take now to meet future electricity needs

- BC Hydro's 20-year plan to meet future customer electricity needs
- Province-wide plan for our integrated system
- Considers Provincial legislation and policy (e.g., Clean Energy Act and the CleanBC Plan)
- Submitted to the BC Utilities Commission
- Projects are subject to separate consultation and approval processes
- Focuses on generation and transmission systems

What does the plan include?

An assessment of future customer needs and actions to meet that need

- Load forecast scenarios
  - Reference
  - Legislated Emissions Reductions
  - Historic Trend
- Conservation and energy management
- Potential investments in BC Hydro's existing infrastructure
  - Generation stations
  - Transmission lines
- Power acquisitions that may be needed and when

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Engagement schedule

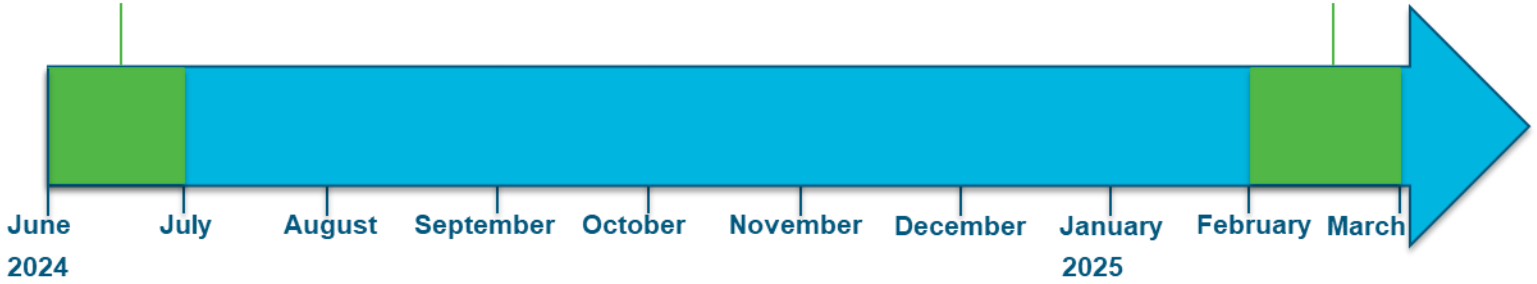
How engagement works into the plan development timeline

Virtual information sessions:

- What is an IRP
- How BC Hydro plans
- Reflections on the 2021 IRP
- Review of survey questions

In-person and Virtual Workshops:

- Regional focus
- Important planning objectives
- Resource Options



Getting started:

the planning objectives

Planning objectives

Continuing to provide clean, reliable power are key priorities

As we plan, we look at the lowest cost options to meet new demand, and we also consider other objectives:

- Keep costs down for customers

- Limit land and water impacts
- Limit greenhouse gas emissions through clean electricity

- Support the growth of B.C.’s economy

Two important terms to know

Energy

the amount of electricity we produce and consume throughout the year.

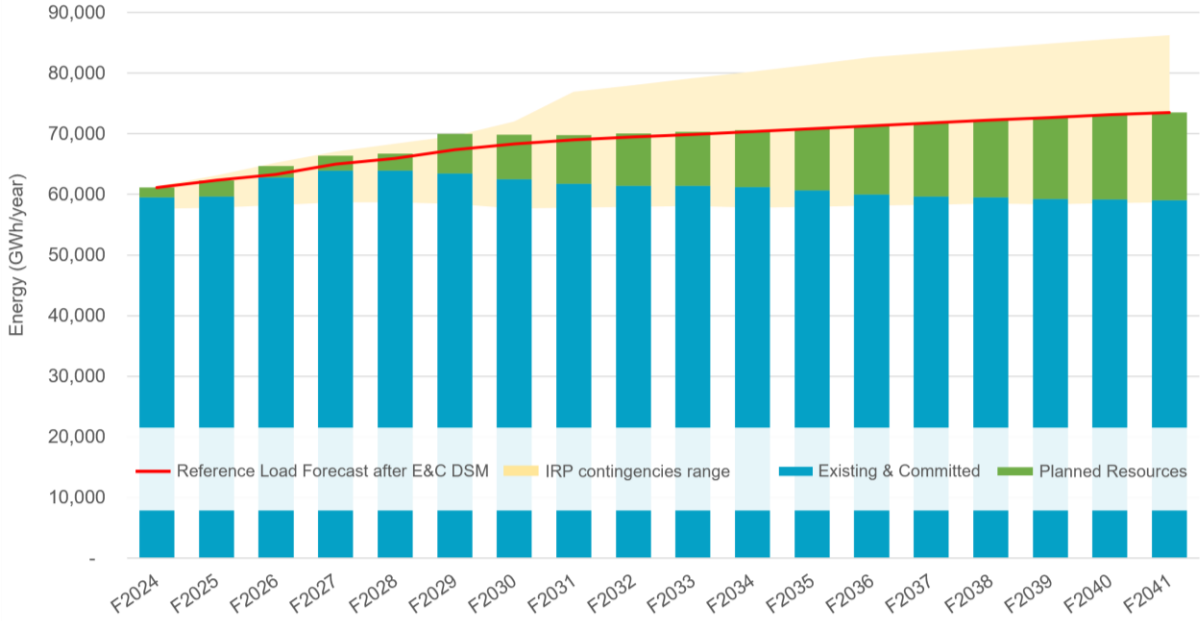
Capacity

the maximum amount of electricity that can be provided at any moment. Also known as “**peak demand**” from a customer electricity use perspective.

Peak demand is also important for planning as this determines the need for new infrastructure

Energy outlook of supply and demand

The last IRP developed plans to meet B.C.'s energy needs



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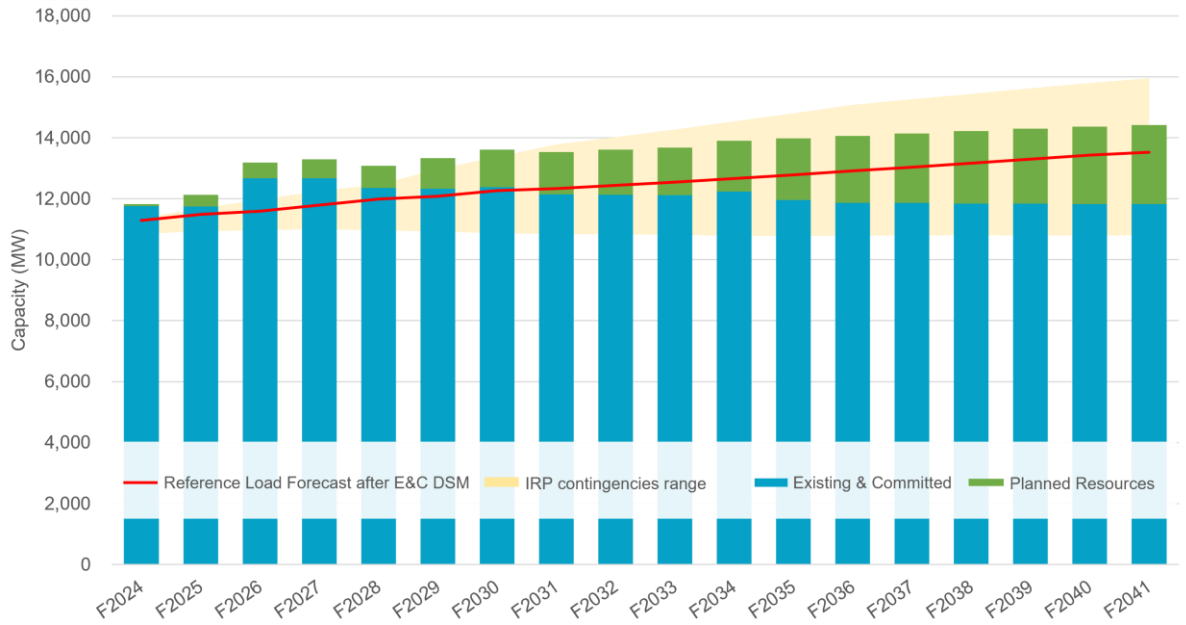
Capacity outlook of supply and demand

Those plans provide sufficient capacity resources for the same period



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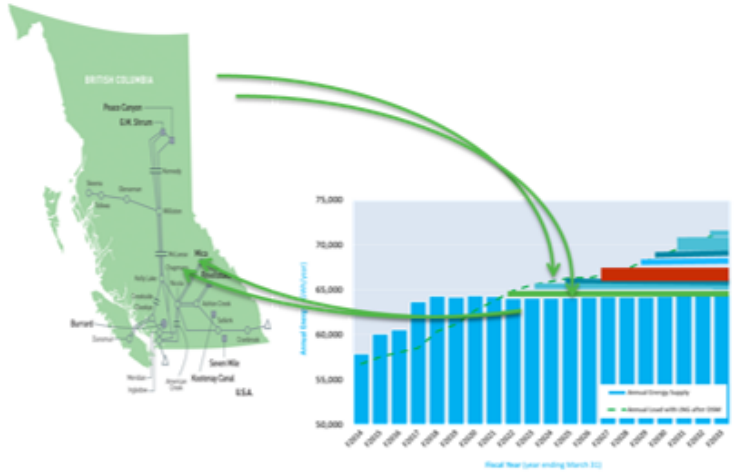
Creating the plan: what decisions need to be made

Process to develop the 2025 IRP

Starts with computer modelling, then moves through people balancing our objectives

Use computer modelling

Model picks resources to fill the gap in lowest cost way



Structure decisions

Portfolios of resources

Assess planning objectives in addition to cost and include consultation input

	Portfolio 1	Portfolio 2	Portfolio 3
Keeping costs down			
Reducing greenhouse gases			
Limiting land / water impacts			
Supporting B.C.'s economy			

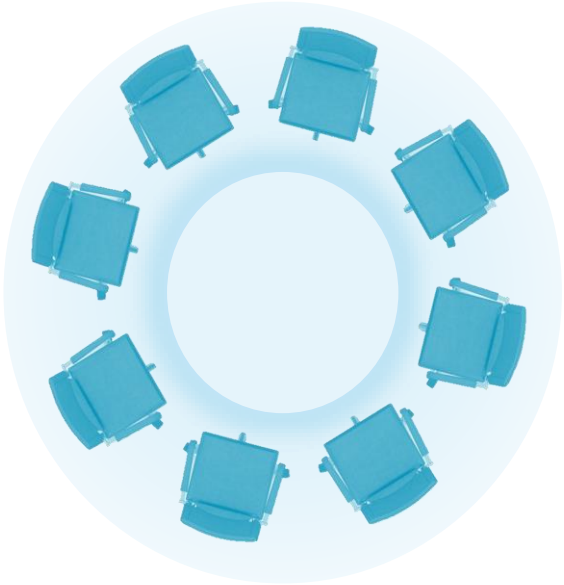
Exploring new resources

There are several ways to meet future electricity needs, each with their own benefits and costs

	Greater conservation and customer involvement	New or renewed local power sources	Upgrades to existing BC Hydro system
Capacity	• Demand response • Time varying rates	• Utility scale batteries • Pumped hydro storage • Geothermal	• Revelstoke Generating Station Unit 6 • Transmission upgrades
Energy	• Expanded energy efficiency programs • Customer local generation	• Onshore wind • Solar • Small hydro storage • …and others	• Upgrades to existing smaller facilities

Your input, feedback and questions

The section is open for discussion and your contribution



As we start drawing up a draft plan:

- What are your interests?
- How do you see the future electricity needs of our customers?
- What are your views on the different ways we could serve those future needs?
- What do you want us to be thinking about?

Next steps and ways to engage

Please complete the survey at bchydro.com/2025irp

Questions or comments can also be shared at integrated.resource.plan@bchydro.com

Engagement and consultation Phase II (on the Draft Plan) will begin in early 2025