

Clean Power 2040

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BC Hydro 2021 Integrated Resource Plan

Meeting Notes: Local Government Webinar – Vancouver Island, BC

Meeting	Local Government Webinar (Vancouver Island, BC) about the Integrated Resource Plan
Date	December 14, 2020
Location	Virtual Workshop (Webex)
Local Government Representatives	Maggie Baynham, District of Saanich Martin Davis, Village of Tahsis Rebecca Newlove, District of Saanich Mike Ownens, City of Port Alberni Adam Campkin, District of Saanich
BC Hydro Representatives	Bill Clendinning; Presenter Anne Wilson; Moderator Shaka Baker; Host Alex Tu; SME Ted Olynyk; Community Relations Karla Louwers; Community Relations Sharon Wasylik; note-taker Judy Dobrowolski; note taker

Presentation Summary

The webinar began with a traditional territory acknowledgement.

After introductions and discussing virtual meeting tools and etiquette, Bill Clendinning, Director of Energy Planning and Analytics at BC Hydro led the presentation for the webinar. The presentation is appended to the meeting notes.

What is an Integrated Resource Plan & consultation timeline

Bill Clendinning provided an overview of the Integrated Resource Plan (IRP) and the schedule for creating the plan for submission to the BC Utilities Commission.

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Planning objectives

Bill Clendinning explained the five planning objectives that BC Hydro is considering when reviewing topics for the IRP. He also explained two important terms to know when discussing the topics for the IRP: energy and capacity.

Integrated Resource Plan Choices

Bill presented the 20-year outlook of electricity supply and demand in BC, for both energy and capacity, and discussed choices BC Hydro will have to make in light of the outlook. The outlook, as shown on the graph, does not include:

- Upgrades to BC Hydro's integrated electricity system
- Conservation programs that could be employed.

Participants were invited to provide input regarding the choices and options presented.

During the first several years when we have sufficient supply of electricity to meet demand, choices presented were:

- Energy efficiency programs, voluntary time varying rates and voluntary demand response programs
- Expiring Electricity Purchase Agreements (EPA) and BC Hydro's potential options
- BC hydro's Small generation plants approaching end of life

Later in the planning horizon as gaps between supply and demand emerge, the following illustrative options were presented:

- Looking at ways that new technology, such as utility-scale batteries and pumped storage could help to store electricity for when customers need it.
- Upgrading our existing system, including expanding some of our larger facilities, like adding an additional generating unit at the Revelstoke Generating Station, and upgrading our power lines to help meet demand from customers.

Bill then discussed uncertainty and the various scenarios BC Hydro considers when evaluating the options presented above.

The webinar concluded by discussing the regional demand supply outlook and the options that the IRP may consider in the region.

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Participant Input

The following is a summary of the discussion that took place.

Planning Objectives

Grid security (1 comment) one participant asked if grid security should be included with the planning objectives.

Energy and Capacity: 20-year outlook of Supply and Demand

Load forecast (1 comment) one participant requested more information on what went into the load forecast and how it aligns with local government efforts and Clean BC around electrification, specifically, electric vehicle adoption by 2030 or shift away from gas heating.

Expiring EPAs (1 comment) a participant asked why the resources (blue bars) declined over time.

Grid resilience (1 comment) one participant questioned how much extra electricity BC Hydro keeps on the grid as a safety factor and as load and supply meet, how risky that is.

2030 to 2040: Getting ready to explore new resources

Develop fair rate structures (1 comment) a participant suggested that time varying rates, and rate structures generally, be modified to support the push for electrification so that it can become more affordable. Another participant noted a preference for options that would produce the least amount of impact for the surrounding community.

Tidal and Ocean Generation (1 comment) one participant asked if tidal/ocean current was being considered as a future resource.

Rooftop Solar and battery storage (1 comment) there were participants that expressed interest in whether local renewable generation includes implementation at the community and household scale, e.g. rooftop solar panels.

IPPs and EPAs (1 comment) a participant asked about the status of IPPs and EPAs.

Development of renewables (1 comment) another participant asked if there was a timeline to target 100% renewable electricity (including BC Hydro supply).

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New Conservation programs (1 comment) one participant asked if there was a potential for incentive to municipalities to store energy rather than generate it.

Vancouver Island Supply Demand Outlook

EV outlook (1 comment) One participant questioned the assumptions on electric vehicle growth such as a ramp up to 100% by 2050. It was also noted that Saanich has much more ambitious targets than the province and are aiming for 36% of personal vehicles (not sales) to be electric vehicles in the community by 2030. This considers that electric vehicles will have lower purchase costs than internal combustion engine cars by the mid-2020s, so a high update (greater than 50% of all sales) by the second half of the decade.