

## 2021 Long-term Outlook Scenarios – December, 2020

2021 Long-term Outlook Stakeholder Feedback



**Period of Comment:** December 15, 2020 through January 15, 2021

**Comments From:**

**Date:** 2021/01/15



Keeping with the mandate of providing safe, reliable and economic operation of the Alberta electricity system while facilitating a fair, efficient and competitive market for electricity, the AESO is developing the 2021 Long-term Outlook (LTO).

Given the challenges faced as a result of the COVID-19 pandemic and the low oil price, feedback provided to the AESO will be an important input into how we forecast Alberta's the near to long-term electricity. The AESO will use scenarios as a means of stress testing various market, technological, consumer behaviour, policy and economic outcomes, to assist stakeholders in understanding potential long-term future outcomes in the Alberta electricity market.

Please fill email your completed questionnaire to [forecast@aeso.ca](mailto:forecast@aeso.ca) by January 15, 2021.

We value stakeholder input and thank you for sharing your perspective. In alignment with our Stakeholder Engagement Framework ([link](#)) all stakeholder submissions, in their original state with personal information redacted, will be published online at [www.aeso.ca](http://www.aeso.ca)

Further stakeholder engagement on LTO scenarios and preliminary results can be expected as the AESO makes progress toward the anticipated publication date in Q2 of 2021.

Preliminary results will be based in part from stakeholder feedback received in June 2020.

The AESO thanks you for your time and appreciates your input.

The AESO is seeking comments from Stakeholders with regard to the following matters:

	Questions	Stakeholder Comments
1.	Do the proposed LTO scenarios cover a reasonable range of plausible future outcomes? Which scenario do you think is more likely? Which one is less likely?	
	Does the “Clean-Tech” scenario focus on the appropriate technologies and policies?	<ul style="list-style-type: none"> <li>- <i>Include federal proposed Healthy Environment Healthy Economy – e.g. carbon price of \$170/t in 2030 and CFS based December 2020 proposed regulations</i></li> <li>- <i>Allow model to repower of GN1, GN2, SD5 if economically feasible</i></li> <li>- <i>Additional storage capacity could be considered – Canadian Infrastructure Bank has a large project funded in Ontario.</i></li> </ul>
	Are there different scenarios that warrant inclusion?	<ul style="list-style-type: none"> <li>- <i>Increased transmission capacity with BC</i></li> <li>- <i>Include case with significant hydrogen production and electrification of oil and gas (see BC LNG)</i></li> <li>- <i>We could see these as stand-alone scenarios or part of existing scenarios</i></li> </ul>
4.	What long-term hydrocarbon demand projections do you think are reasonable for the Robust and Stagnant Global Oil & Gas Demand scenarios?	
5.	Are there additional generation technologies that warrant inclusion in the 2021 Long Term Outlook Scenarios?	
6.	Do you disagree with any of the assumptions in Slide 4 for any of the scenarios? If so, what would you propose?	

7.	<p>The AESO has not yet determined the quantum of change in the scenario variables. Do you agree directionally with the scenario assumptions? Do you have insights regarding the magnitude of scenario changes?</p>	<ul style="list-style-type: none"> <li>- <i>For technology assumptions see NREL ATB database</i></li> <li>- <a href="https://atb.nrel.gov/electricity/2020/data.php">https://atb.nrel.gov/electricity/2020/data.php</a></li> </ul> <p><i>Increased BC inertia could reference RECSI Study located here:</i></p> <ul style="list-style-type: none"> <li>- <a href="https://www.aeso.ca/market/market-updates/regional-electricity-cooperation-and-strategic-infrastructure-initiative-recsi/">https://www.aeso.ca/market/market-updates/regional-electricity-cooperation-and-strategic-infrastructure-initiative-recsi/</a></li> </ul>
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