

IESO Engagement

From: Christopher Adlam
Sent: May 21, 2021 1:31 PM
To: IESO Engagement
Cc: Chris Keefer
Subject: E-mail list on gas phase-out

I would like to be included in the list, referenced here:

<https://www.ieso.ca/en/Sector-Participants/Engagement-Initiatives/Engagements/Gas-Phase-Out-Impact-Assessment>

This conversation necessarily opens the door for discussion on the previously CNSC approved refurbishment of Pickering B, as there's absolutely no way that Ontario is going to eliminate gas with Pickering gone. Gas capacity was specifically procured for exactly that purpose: to replace the output from Pickering. Given OPG's apparent lack of interest in pursuing a Pickering refurbishment as well as the significant uprates and improvements happening as part of the Bruce refurbishment I think it prudent that the government considers what it would take in terms of a contract or contract extension with Bruce Power to have them take on Pickering. Given the output run-ups we've seen with unit 5 (560MW), myself, and the membership of Canadians for Nuclear see tremendous opportunity in not only extending Pickering operation through to the 2060's as presented in the aforementioned CNSC approved refurbishment plan, but increasing its output as part of those refurbishment efforts.

This also dovetails nicely with the SMR roadmap, as that should be well-sorted by the time units 1 and 4 are truly End of Life, allowing a potential for SMR development on the Pickering A site. Something like the Moltex SSR would be a great fit, utilizing the used fuel already present there, just as an example.

Given that Pickering at 3,100MW out-produces Ontario's ~5,000MW wind fleet by 5-fold during our highest demand summer months, it's clear that wind has absolutely no role in the elimination of gas, rather, it creates dependency on it. The only two sources that can eliminate gas are hydro and nuclear, and since Ontario's hydro expansion potential is limited, and nuclear provided 90% of the power necessary to eliminate coal, it's clear that maximizing the output and performance of our existing nuclear assets through life extension, uprate and refurbishment is the easiest way to set the stage for this goal. SMR's with hydro can close the deal.

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