

Fwd: Ivey Reseach

From: "Katona, Keley (ENERGY)" <keley.katona@ontario.ca>
To: "Imbrogno, Serge (ENERGY)" <serge.imbrogno@ontario.ca>
Date: Mon, 30 Jan 2017 10:18:34 -0500
Attachments: E2842D16-58A1-41AD-ABB0-9E5CCEA0C673.jpg (64.1 kB)

Any concerns with ESP working with Ivey on below?

From: Holburn, Guy [<mailto:gholburn@ivey.ca>]
Sent: January-27-17 5:03 PM
To: Hume, Steen (ENERGY)
Subject: Global adjustment payment modeling

Hi Steen,

We had a useful conversation with the IESO on Tuesday, and Jordan has since provided some helpful additional information.

We would like to pursue the GA modelling idea in more detail as we think this could be a very interesting opportunity to evaluate. To do so, we are hoping to obtain the data below. Barbara suggested we talk with the Ministry to obtain such data, and when I spoke to Kaili today she recommended liaising with you. Would you be able to assist here? Let me know if you would like to chat – 519 661 4247.

Thanks, Guy

1. Contracted capacity

- * Please could you provide the underlying data for the chart that illustrates the Projected Lifecycle for Total Contracted Capacity, by technology, on page 18 of the latest Progress Report on Contracted Electricity Supply: Q3 2016 (Fig. 5)? The chart shows for each year, 2005-2067, the amount of contracted capacity in MW by generation technology type.

2. Global Adjustment payments

- * Please could you provide the data for the Global Adjustment Breakdown chart on the last slide of the "About the IESO Markets Ivey Jan 2017" presentation that Jordan sent us (see Fig. 23 pasted below)? It would be helpful to have the data broken down by technology type (e.g. Nuclear, Hydro, Natural Gas etc), ie. to split out the "Nuclear (non-OPG) and Natural Gas" and "OPG - Regulated Nuclear and Hydro" amounts into the respective amounts by technology. Annual data from 2006 to 2016 would be ideal.
- * This may be replication, but please could you also provide the underlying data on annual global adjustment fees that the Auditor General referenced in her 2015 Annual Report (page 222). Specifically, the AG refers to \$37bn fees paid from 2006-2014, and another \$133bn fees projected for 2015-2032. It would be helpful to have this data for each year and broken down by components, e.g. GA attributable to nuclear, to natural gas, to wind, etc.

3. Average rates paid for generation

- * Could you provide an approximate average rate (or a range) for the rate at which power is procured for contracted capacity by each technology type. Some data is available for renewables procured through the RESOP/FIT/LRP programs (e.g. 13.5c/kWh for wind under FIT), and Bruce Power agreement documents indicate a price of 6.6c/kWh. It would be helpful to have the approximate average rates paid for natural gas, hydro, nuclear, wind and solar power production.

4. Export volumes

- * Could we get hourly export data from 2011-2016?

