

# Feedback Form

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## Market Renewal – Energy Project: Overview of Economic Operating Point Design, April 21, 2022

Feedback Provided by:

Name: Daniel Tadros

Title: Senior Market Specialist

Organization: Ontario Power Generation

Email: [REDACTED]

Date: October 7<sup>th</sup>, 2022

Item / Topic	Feedback
Market Renewal – Energy Project: Overview of Economic Operating Point Design – IESO Stakeholder Engagement, April 21, 2022	Upon further review of the presentation from the April 21, 2022 stakeholder engagement meeting, OPG is providing comments below.
(1) EOP Adjustment When RLP Binds	<p><b>Slide 14 (clarification):</b></p> <p>How does the EOP adjustment consider the 20 MW of energy between the Energy EOP (80 MW, as provided in the example), and the RLP (100 MW)?</p> <p>If EOP Intersection is 80 MW as shown in example table, should 80 MW be substituted into example equation instead of 20 MW, <b>as per below?</b></p> $= (100-80) \times (20-50)$ $= (20\text{MW}) \times (-\$30/\text{MW})$ $= -\$600$ <p>Can you please clarify if the offer price should be \$10/MW up to 80 MW (1<sup>st</sup> Energy PQ pair) and EOP intersection is at 80MW and thereafter \$50/MW for 81 MW to 160 MW (2<sup>nd</sup> Energy PQ pair)?</p>
(2) DAM Lost Cost EOP for Cascade Resources	<p><b>Slide 20 (clarification):</b></p> <p>There are three conditions listed for DAM lost cost EOP for cascade resources. The current wording can be ambiguous in the interpretation of application of conditions. Can the IESO provide clarity on how the conditions are applied (i.e. explicit in the operation of the AND and OR operators)?</p>
(3) Determining Profit Maximizing EOPs	<p><b>Slide 21 &amp; 22 (clarification):</b></p> <p>On Slide 21, G1 is offering energy in two laminations: 50 MW @ \$10/MWh, and 40 MW @ \$20/MWh, and the LMP is \$29/MWh. Based on this, should the EOP be evaluated at 90 MW since the LMP exceeds the highest lamination?</p> <p>However on Slide 22 the EOP is evaluated with 50 MW.</p>

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(4) RTM Lost Opportunity EOP Considerations	<b>Slide 24 (clarification):</b> Please provide Detailed Design Document reference that outlines the formula for EOP calculation for the three operating reserve classes.
(5) RTM Lost Opportunity EOP Considerations	<b>Slide 25 (correction):</b> Should the 10S OR EOP intersection be 20 MW (at \$18 LMP) since the LMP for 10S OR is \$18?
(6) RTM Lost Opportunity EOP Methodology	<b>Slide 26 (example):</b> <i>"Each resource's energy offers / bids for energy and operating reserve are jointly optimized in isolation vs. other resources".</i>  Can an example be provided during future engagement sessions?

## General Comments/Feedback

1. What is the post processing timeline for Economic Operating Point calculations?
2. Is the combined/net operating point of Energy and operating serve considered when calculating other types of Make Whole Payments, for example in RT-GOG calculations?
3. Please confirm if the following restrictions are imposed by Market Participants: slow ramp rate, forbidden region, commitment during MGBRT, Max # of starts per day?
4. In what condition would a non-quick start resource become ineligible for lost opportunity payments?