

MIS Refresh

Response to Stakeholder Feedback

The IESO hosted an information webinar on October 6, 2015 to discuss the IESO's Market Information System (MIS) refresh project. The session was an opportunity to discuss project objectives, scope, timeline and potential opportunities to test the updated solution. The Market Information System contains the tools and processes that optimize the dispatch of Ontario's electricity system. Following the session, stakeholders were invited to provide feedback. The IESO received feedback from

Ontario Power Generation
TransCanada Energy Limited

The summarized feedback and the IESO's response are posted below.

Company	Feedback	IESO Response
Ontario Power Generation	While the project scope mainly entails upgrades to the MIS platform, mathematical libraries, software and hardware, OPG requests that the IESO provide additional information if any, on what impacts the upgrades will have to Market Participants. As an example, does the IESO expect any changes to EDAC outcomes due to the new platform?; will there be any impacts on Market Participants' interface (e.g. offer file formats)?	<p>IESO will conduct a pre-implementation audit to ensure results are in compliance with market rules.</p> <p>The MIS Refresh project will not have any impact on existing Market Participant's interfaces other than the Dispatch Advisory Reports (see below).</p> <p>For DACP, the computation engine version will be upgraded. It will still use the de facto industry standard: AMPL/CPLEX. The optimization problem formulation will not change and will remain in compliance with the market rules.</p>

Company	Feedback	IESO Response
Ontario Power Generation	<p>In the presentation, the IESO indicated it is exploring the possibility of using more than five Multi Interval Optimization (MIO) critical intervals in the upgrade implementation. The IESO stated Market Participants will have an opportunity to review the newly revised reports as a result of extending MIO critical intervals. If the reports are revised, OPG requests the relevant schemas and time to test the revised reports be provided by the IESO. Furthermore, in order to compare the impact of changing the number of MIO critical intervals, OPG also requests the IESO provide Market Participants with dispatch schedules that use the five critical intervals as well as the new number of critical intervals.</p>	<p>IESO is exploring the possibility of using new hardware and software computation engine to have a more accurate solution (see Market Rules Ch.7, App. 7.5 Sec. 3.11.3).</p> <p>Please also refer to Market Manual Part 4.3 Sec 1.4; there are currently 5 critical intervals within a study period of 55 minutes (11 intervals). As result of the MIS refresh project, the IESO may increase the # of critical intervals from 5 up to 11. The first critical interval is always the Dispatch interval and the remaining critical intervals are advisory intervals. The Dispatch Advisory Report will be updated to include additional intervals if we extending the MIO critical intervals to more than 5.</p> <p>Upon further investigation, the IESO has determined that providing one set of MIO dispatches based on 5 critical intervals and another set of MIO dispatches based on 11 critical intervals, concurrently, would be unrealistically difficult to achieve and won't be possible for this project.</p> <p>The Sandbox will be available in Q4 2017 for two weeks for Market Participants to review updated Dispatch Advisory Report if IESO increases the # of MIO critical intervals to more than 5 intervals.</p>

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TransCanada	Since the DSO is moving to the same platform (CPLEX) as the DAOS – does this mean that the RT and the DA scheduling systems will now be able to communicate? As you recall there are some issues with the DA scheduling because the RT and DA engines don't speak.	The IESO is unaware of any issues regarding the lack of communication between sequences or systems. If it is possible for TransCanada to provide more detail and context, the IESO may be able to look at the issue.
TransCanada	Will the new DSO on the new platform be capable of 3 part offers in the RT (as is currently in the DA)? If so, is the IESO looking to implement 3 part offers in the RT to coincide with the Nov. 2017 implementation?	<p>The upgrade to CPLEX makes it possible for the PDC, PDU, MIO, & RTU sequences to optimize with 3-part offers, similar to DACP. Such an upgrade would also require a change to the optimization problem formulation at the programming level and in the market rules (Chapter 7 and Appendix 7.5). This is however beyond the scope of the MIS Refresh project.</p> <p>While the IESO has committed to exploring the possibility of implementing a real-time unit commitment program with three part offers and multi-hour optimization, it is unlikely such a solution would be in place by November 2017.</p>