

MARCH 18, 2025

Market Renewal Program (MRP): End-to-End Testing Q&A Session #4 with Market Participants

Cynthia Sidalak

Senior Advisor, Market Participant Readiness

Agenda

- Objective of the Q&A Session
- Current Status of End-to-End Testing
- Status of Test Scenarios and Potential Issues
- IESO's Classification for Submitted Issues
- Update on common issues reported during Weeks 3 to 6

Agenda (cont.)

- Common issues reported during Week 8
- Weeks 9 and 10 of End-to-End Testing
- Additional Resources
- Q&A Session
- Next Steps

Objectives of the Q&A Sessions

- To review the status and resolution of issues that have been reported during End-to-End Testing
- To address common questions participants are raising
- To provide participants the opportunity to ask general questions they may have about MRP testing

Current Status of End-to-End Testing

- End-to-End Testing resumed on March 10 after a brief pause from February 28 to March 7 to allow the IESO to complete additional preparations.
- Historical reports have been republished with corrected data after deploying a fix where possible
- Reports participants identified as missing have now been published where possible
- 78% of the test scenarios have been successfully executed by at least one market participant
- Many scenarios and reported issues are waiting for Market Participants to re-test and inform the IESO of the result
- Market Participants are encouraged to continue to report any potential issues to the IESO as soon as possible
- End-to-End Testing is scheduled to end on March 26, 2025.

Execution Status

A test scenario's execution status is considered **Passed** when:

- all test cases within that test scenario have been successfully executed by at least one market participant

Overall Status

A test scenario's overall status is considered **In Progress** when:

- 1 or more participant submitted issues are under investigation (an issue could be a question, a problem on the participant's side, a revision required in IESO documentation or a defect in IESO systems);
- 1 or more issues are pending a retest by 1 or more market participants; or
- participants are waiting for settlement statements (preliminary settlement statements issued 6 business days after the trade date in end-to-end testing).

A test scenario's overall status is considered **Complete** when:

- the execution status is marked "passed," and
- no issues under investigation or retests pending.

Status of Test Scenarios as of March 17, 2025

Test Scenario No.	Execution Status	Overall Status	Notes
TS01 - Financial Reference Level (FRL) Change Request	Passed	In Progress	<ul style="list-style-type: none"> 14 reported issues have been resolved and are waiting on market participants to retest
TS02 – DAM Failure	Passed	In Progress	<ul style="list-style-type: none"> 2 reported issues have been resolved and are waiting on market participants to retest
TS04 - Notice of Disagreement (NOD)	Passed	In Progress	<ul style="list-style-type: none"> 1 issue has been resolved and is waiting on market participant to retest
TS05 - Make-Whole Payment (MWP)	Passed	In Progress	<ul style="list-style-type: none"> 2 issues are being investigated.
TS07 - Market Power Mitigation (MPM)		In Progress	<ul style="list-style-type: none"> 2 reported issues have been resolved and are waiting on market participants to retest
TS08 - Intertie Curtailment		In Progress	<ul style="list-style-type: none"> Market Participant is in the process of executing this test scenario

Status of Test Scenarios as of March 17, 2025 (cont.)

Test Scenario No.	Execution Status	Overall Status	Notes
TS09 - Fuel Cost Compensation Form	Passed	In Progress	<ul style="list-style-type: none"> 3 reported issues have been resolved and are waiting on market participants to retest
TS11 - 1-Day Advance Approval Outage	Passed	In Progress	<ul style="list-style-type: none"> 1 issue is being investigated 1 issue is pending additional information from the tester
TS12 - Hourly Demand Response (HDR) Activation	Passed	In Progress	<ul style="list-style-type: none"> 2 issues are being investigated 1 reported issue has been resolved and is waiting on the market participant to retest 1 issue is pending additional information from the tester
TS13 - Operating Reserve (OR) Activation	Passed	In Progress	<ul style="list-style-type: none"> 1 reported issue has been resolved and is waiting on the market participant to retest 2 issues are being investigated

Status of Test Scenarios as of March 17, 2025 (cont.)

Test Scenario No.	Execution Status	Overall Status	Notes
TS14 – OR Shortfall	Passed	Complete	<ul style="list-style-type: none"> No issues were identified.
TS16 – GOG Commitment Terminated by the IESO	Passed	In Progress	<ul style="list-style-type: none"> 1 reported issue has been resolved and is waiting on the market participant to retest 2 issues are being investigated
TS17 - GOG Commitment Advancement and Extensions	Passed	In Progress	<ul style="list-style-type: none"> 1 issue is pending additional information from the tester 2 reported issues have been resolved and are waiting on the market participant to retest
TS18 - GOG Commitment withdrawn by MP with more than 4 hours advance notice	Passed	In Progress	<ul style="list-style-type: none"> 2 reported issues have been resolved and are waiting on the market participant to retest
TS19 - GOG Commitment withdrawn by MP with less than 4 hours advance notice	Passed	Complete	<ul style="list-style-type: none"> No issues were identified.

Status of Test Scenarios as of March 17, 2025 (cont.)

Test Scenario No.	Execution Status	Overall Status	Notes
TS20 – GOG Commitment Performance Failure	Passed	Complete	<ul style="list-style-type: none"> No open issues
TS21 - SEAL Constraint	Passed	In Progress	<ul style="list-style-type: none"> 2 reported issues have been resolved and are waiting on the market participant to retest
TS22 - MPM Global Threshold		In Progress	<ul style="list-style-type: none"> 2 issues are being investigated 1 reported issue has been resolved and is waiting on the market participant to retest
TS23 – Major Outage – EW Tie Binding	Passed	In Progress	<ul style="list-style-type: none"> 1 issue has been resolved and is waiting on the market participant to retest
TS24 – OR Clawback	Passed	Complete	<ul style="list-style-type: none"> No open issues
TS25 – Charge Type 144/145		In Progress	<ul style="list-style-type: none"> No activity logged in qTest yet
TS26 – Capacity Flag – Import/Export		In Progress	<ul style="list-style-type: none"> No activity logged in qTest yet
TS27 – Resettlement Statement	Passed	In Progress	<ul style="list-style-type: none"> No open issues Overall status remains in progress as market participants are currently testing this scenario

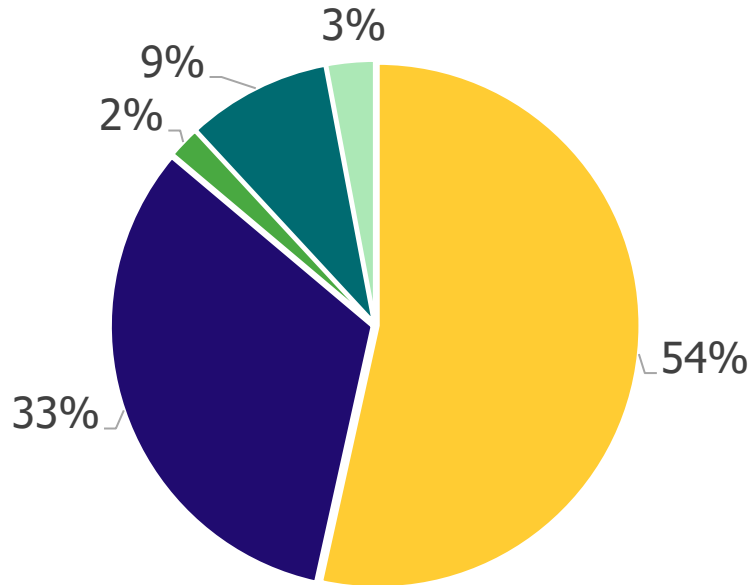
Current Status of Potential Issues in End-to-End Testing

Issue Status	Number of Issues
Being Investigated by the IESO	39
Ready to be Re-tested by the Market Participant	103
Waiting on additional information from the Market Participant	16
Closed	192
Total Number of Issues (as of March 12, 2025)	350

The types of issues being reported include (but are not limited to):

- system issues that are corrected by the IESO and/or its application vendors,
- clarifying questions on the process or market rules in effect,
- updates required to the IESO's training documentation and supporting materials for testing,
- updates to the test scenario documents or test steps
- access-related issues for user and/or API accounts, and
- current system issues/enhancements that are out of scope for testing under MRP.

Type of Issues being reported by Market Participants as of March 12, 2025



- System Issues that are corrected by the IESO and/or its application vendors
- Clarifying questions on the process or market rules in effect
- Updates required to the IESO's training documentation and supporting materials for testing
- Access-related issues for user and/or API accounts
- Current system issues/enhancements that are out of scope of testing under MRP

IESO's Classification for Submitted Issues

Priority	Description
Critical	The defect will result in the failure of IESO's software system and will prevent the IESO from executing the applicable business process. The defect must be resolved prior to MRP Go-Live.
High	The defect will result in the failure of a functional component of IESO's software system and no workarounds exist. A workaround needs to be developed that will have a material impact on the IESO's business process(es). The defect should be resolved prior to MRP Go-Live.
Medium	The defect will result in the failure of a functional component of IESO system(s). However, a workaround exists that will yield a desired result, and it does not have a material impact on the IESO's business process(es). The IESO will target to resolve the defect prior to MRP Go-Live. If this target cannot be achieved, the IESO will communicate to Market Participants if and/or when the defect will be resolved in a future deployment.
Low	The defect <u>does</u> not result in the failure of a functional component and does not affect the execution of IESO's business process. The IESO will communicate to Market Participants if the defect will be resolved in a future deployment or rationale on why the defect will not be resolved.



Status update on outstanding common issues reported during Weeks 3 and 4 of End-to-End Testing



Scenario 1 – Financial Reference Level (FRL) Change Request

Common Issues Reported for Test Scenario 1

Reported Issue	IESO Priority Ranking	Issue status
When Market Participants submit the Service Price adder or Alternate Fuel Cost prices, it specifies CAD but it does not specify the unit of measurement.	Low	<ul style="list-style-type: none">The IESO has deployed the enhancement in the Sandbox environment.The Quick Take: How to Submit Temporary Reference Level Change Requests for End-to-End Testing is currently being updated by the IESO. The IESO will communicate to Market Participants when the document has been updated.



Status update on outstanding common issues reported during Weeks 5 and 6 of End-to-End Testing

Common issues reported during Weeks 5 and 6 of End-to-End Testing

Reported Issue	IESO Priority Ranking	Issue status
Charge Types CT1100 is not being included in non-dispatchable generators' settlement statements	Critical	<ul style="list-style-type: none">• The IESO has deployed a fix to ensure that CT1100 should be included in non-dispatchable generators' settlement statements• All settlement statements for all trade dates issued on and after March 10th will show CT1100 for non-dispatchable generators.
User is seeing their resources being reported twice in the <i>Dispatch Data Report for Day-Ahead Scheduling Process</i>	High	<ul style="list-style-type: none">• This has been fixed, Market Participants who reported this issue have been informed via qTest to re-test.

Common issues reported during Weeks 5 and 6 of End-to-End Testing (cont.)

Reported Issue	IESO Priority Ranking	Issue status
The field placement for AQEW and AQEI for Charge Type CT 1900 and 1904 in the settlement statement are in the incorrect fields	High	<ul style="list-style-type: none">• This IESO has deployed a fix to ensure that the AQEW is now in column 24 and AQEI is in column 25.• All settlement statements for all trade dates issued on and after March 10, 2025 will reflect the correct field placement for AQEW and AQEL.
<i>The Variable Generation Foregone Energy Calculation Inputs</i> Report is not being generated when the settlement statements are published	High	<ul style="list-style-type: none">• The IESO is currently investigating this issue and will communicate to Market Participants when this has been fixed.

Common issues reported during Weeks 5 and 6 of End-to-End Testing (cont.)

Reported Issue	IESO Priority Ranking	Issue status
The <i>Day-ahead Market Operating Reserve Offer Report</i> only shows the hours where the Market Participant has submitted an offer	Medium	<ul style="list-style-type: none">• The <i>Day-Ahead Market Operating Reserve Offer Report</i> should show all hours regardless if a Market Participant submitted an offer.• This has been fixed, Market Participants who reported this issue have been informed via qTest to re-test.




Week 8 of End-to-End Testing

Week 8 of End-to-End Testing

Week 8 (Low System Demand)	March 10, 2025	March 11, 2025	March 12, 2025	March 13, 2025	March 14, 2025
				<i>IESO will be changing the Sandbox base conditions to a High System Demand</i>	
		<i>S2- DAM Failure (for trade date March 12)</i>			<i>S27 - Resettlement Statement</i>
			<i>S13-Operating Reserve (OR) Activation</i>		
			<i>S11 - 1-Day Advance Approval Outage</i>		

High System Demand in the Sandbox Environment

- The IESO changed the base conditions in the Sandbox Environment from low demand to high system demand starting March 13.
- The changes required to update the conditions took place starting on **March 13 at 20:00 EST** through **March 16 at 24:00 EST**.
- Market Participants will be able to access the applications and receive operational reports and settlements but Market Participants may notice missing or unrealistic data for the March 13 to 16 trade dates.
- The March 16 DAM continued to run for the March 17 trade date.
- Market Participants are not required to submit data issues they identify in their reports and/or settlements during this time frame.



Common Issues reported during Week 8 of End-to-End Testing

Common issues reported during Week 8 of End-to-End Testing

Reported Issue	IESO Priority Ranking	Issue status
Make-Whole Payments for PSU resources do not reflect mitigation in the settlement statement and data files	High	<ul style="list-style-type: none">The IESO is working on a fix and will communicate to Market Participants once it has been deployed in Sandbox.
The <i>Day-Ahead Schedule Report</i> does not display the reliability constraint codes which is inconsistent with the <i>Realtime Energy and Operating Reserve Dispatch Report</i>	High	<ul style="list-style-type: none">The IESO is working on a fix and will communicate to Market Participants once it has been deployed in Sandbox.

Common issues reported during Week 8 of End-to-End Testing (cont.)

Reported Issue	IESO Priority Ranking	Issue status
Prior to March 11, 2025, the <i>Real-Time Reference Quantity Values</i> Report was reporting data for -28 calendar days, not -14 calendar days	High	<ul style="list-style-type: none">The IESO resolved this issue on March 10, 2025. The IESO is unable to republish any <i>Real-Time Reference Quantity Values Report</i> that was published prior to this date. As a workaround, Market Participants should subtract an additional 14 days from the “For” date for reports that were created between January 20, 2025 and March 9, 2025. (<i>i.e. March 9, 2025 report has data for Feb 9, 2025</i>)
Two additional rows were added to the csv format for the <i>Day-Ahead Market Operating Reserve Offer</i> Report	High	<ul style="list-style-type: none">This has been fixed to remove the two additional rows to the csv format for the <i>Day-Ahead Market Operating Reserve Offer Report</i>.

Common issues reported during Week 8 of End-to-End Testing (cont.)

Reported Issue	IESO Priority Ranking	Issue status
The market settlement floor price is different than what was discussed with Market Participants as -\$2000 is being shown in the settlement files when it should be -\$100	High	<ul style="list-style-type: none">This issue is currently being investigated by the application vendor. The IESO will communicate to Market Participants once it has been resolved.
External congestion is being calculated differently between the <i>Predispatch Hourly Intertie Energy LMP</i> Report and the <i>Realtime 5-Min Intertie Energy LMP</i> Report	High	<ul style="list-style-type: none">This issue is currently being investigated by the application vendor. The IESO will communicate to Market Participants once it has been resolved.

Common issues reported during Week 8 of End-to-End Testing

Reported Issue	IESO Priority Ranking	Issue status
The <i>Predispatch Commitments Report</i> does not reflect Extend commitment instructions and Withdrawals	High	<ul style="list-style-type: none">This has been fixed as of Mar 10, 2025. Market Participants can retest the report.

Weeks 9 and 10 of End-to-End Testing

Week 9 (High System Demand)	March 17, 2025	March 18, 2025	March 19, 2025	March 20, 2025	March 21, 2025
		<i>S5 - Make Whole Payment</i>			
	<i>S8 - Intertie Curtailment</i>				
			<i>S12 - Hourly Demand Response - HDR Activation</i>		
			<i>S21-SEAL Constraint</i>		
			<i>S7- Market Power Mitigation (MPM)</i>		
			<i>S23 - Major Outage - EW Tie Binding</i>		
			<i>S18-GOG Commitment withdrawn by MP with more than 4 hours advance notice</i>		
			<i>S19-GOG Commitment withdrawn by MP with less than 4 hours advance notice</i>		

Week 10 (High System Demand)	March 24, 2024	March 25, 2024	March 26, 2024
	<i>Exploratory Testing</i>		

Additional Resources

- Updated [FAQ document for End-to-End Testing](#) to provide a list of delayed reports that have now been published and, answers questions about what Economic Operating Point values are provided to participants

Sandbox Environment after End-to-End Testing

- The Sandbox environment will be open for End-to-End Testing until end of day (EOD) March 26
- Preliminary Settlement statements will be produced for all End-to-End Testing trade dates up to and including March 26
- Final settlement statements will be produced for all End-to-End Testing trade dates up to and including March 19
- The IESO will update the [Settlement Schedule for the End-to-End Testing Phase](#) with the additional trade dates for End-to-End Testing up to and including trade date March 26.

Sandbox Environment after End-to-End Testing (cont.)

- All operational and settlement reports produced during End-to-End Testing will be available in the Sandbox IESO Reports site for 90 days from the date they were produced
- The Sandbox environment will remain open after March 26 but will be being prepared for the cutover test and other activities and therefore some functionality may not be available and outages may occur without notice; operational and settlement reports will not be produced



Q&A Session

Next Steps

- The Wrap-Up Meeting For End-to-End Testing will be scheduled on April 4, 2025.
- An email will be sent in advance from the IESO Market Renewal mailbox notifying when Market Participants can register for the Wrap-Up Meeting.
- This presentation deck will be published on the [Market Participant Testing](#) page.
- Market Participants are reminded to submit their test results and defects using qTest or the Issue Log Templates by March 26.
- Contact IESO Customer Relations if you have any questions that are specific to your organization and resources.

Thank You

ieso.ca

1.888.448.7777

customer.relations@ieso.ca

engagement@ieso.ca



[@IESO Tweets](https://twitter.com/IESO)



linkedin.com/company/IESO