

Release Plan for IT Changes

Target Plan for Release 51.1, June 2024

Changes to IESO systems planned as part of Release 51.1 are described below. Unless noted otherwise, the planned deployment dates are:

- Sandbox Build on April 25, 2024
- Non-Real Time Build on May 29, 2024
- Real-Time Build on June 5, 2024

For the annual 2024 IESO IT Release Schedule web page, [click here](#).

Any modification from a previous release plan is noted in the description. More information about the IT Release Plan is found at the end of this document. Questions or concerns about IESO Release Plans can be sent to the email address, pending.changes@ieso.ca or directed to IESO Customer Relations.

ID103226 – Capacity Auction Enhancements 2023 – Implementation of the new Testing Framework and Settlement Changes

Type of Change

Non-Real Time, Category 2.

Stakeholder & Document References

Enhancements to the Capacity Auction and Resource Adequacy were introduced and reviewed over a two-year period through regular engagement meetings with stakeholders. The details can be found on the Capacity Auction Enhancements Engagement [webpage](#) and the Resource Adequacy Engagement [webpage](#).

Applications Impacted

Sandbox

Online IESO Sandbox

The following Online IESO applications will be impacted: Capacity Auction and Settlement Disagreement Management System (SDMS).

Click <https://onlinesandbox.ieso.ca> to go to the Online IESO Sandbox.

IESO Sandbox Participant Reports

Click <https://reports-sandbox.ieso.ca/> to go to the Sandbox Participants Reports page.

Production

Online IESO

The following Online IESO applications will be impacted: Capacity Auction and Settlement Disagreement Management System (SDMS).

Click <https://online.ieso.ca> to go to the Online IESO.

IESO Participant Reports

Click <https://reports.ieso.ca/> to go to the Participants Reports page.

Reason for Change

The annual Capacity Auction is one of the competitive procurement mechanisms included in the IESO's Resource Adequacy Framework. The Capacity Auction serves as the short term balancing mechanism in the framework, securing the capacity needed to meet Ontario's short-term resource adequacy needs. The Capacity Auction enables participation from a diverse range of resources that compete to be available for defined obligation periods.

This change will implement the final design changes for the 2023 Capacity Auction Enhancements.

The IESO has developed three main proposals to enhance the 2023 Capacity Auction: introduction of a capacity qualification process, performance assessment framework changes, and a demand curve review.

These enhancements will strengthen the IESO's ability to secure reliable capacity at low cost as we enter a period of critical supply conditions.

Description of Change

Online IESO – Capacity Auction

Capacity test assessment results will be issued to the Capacity Market Participant (CMP) for each scheduled resource. Capacity test assessment results will include the result of the capacity auction capacity test and, for HDR resources only, the result of the in-period Cleared UCAP adjustment assessment.

Online IESO – Settlement Disagreements Management System (SDMS)

The Notice of Disagreement (NOD) contact will be presented with the Obligation ID when selecting a line item to NOD for either charge type 1318 or charge type 1323.

Commercial Reconciliation System (CRS) – Production

Three new charge types have been defined to settle Capacity Auction charge types (CT) for the UCAP adjustment charge, availability charge true-up payment, and capacity charge true-up payment:

1. CT 1323 – “Capacity Obligation – In Period Cleared UCAP Adjustment Charge”
2. CT 1324 – “Capacity Obligation – Availability Charge True-up Payment”
3. CT 1325 – “Capacity Obligation – Capacity Auction Charges True-up Payment”

One CT has been modified to support the new Capacity Auction test framework for capacity charges: CT 1318 – “Capacity Obligation – Capacity Charge”.

These charges will be calculated/reported as part of the existing CRS calculation and statement batch processes and recalculated settlement statements (RCSS).

Expected Impact

Online IESO

Users will receive email notifications with capacity test assessment results.

Settlements

Charge types for 1318, 1323, 1324 and 1325 will be automatically calculated by CRS and available on the associated settlement statements effective May 1st 2024, RSSC-1 published on July 15th. The changes will be described in further detail in the Format Specifications for Settlement Statement Files and Data Files document that is scheduled be part of Baseline 51.1.

There will be no system outages related to this change.

ID103301 – Transmission Rights Market Enhancements and Platform Refresh

Type of Change

Non-Real Time, Category 2.

Stakeholder & Document References

Enhancements to the Transmission Rights Market were introduced and reviewed over a one-year period through regular engagement meetings with stakeholders. The details can be found on the Transmission Rights Market Enhancement and Platform Refresh Engagement [webpage](#).

A Transmission Rights training package, information session, and market participant test plan will be provided prior to Market Trials in the Sandbox environment.

Applications Impacted

Sandbox	Production
Online IESO Sandbox The Transmission Rights Auction (TRA) application will be impacted. Click https://onlinesandbox.ieso.ca to go to the Online IESO Sandbox.	Online IESO The Transmission Rights Auction (TRA) application will be impacted. Click https://online.ieso.ca to go to the Online IESO.
IESO Sandbox Participant Reports Click https://reports-sandbox.ieso.ca/ to go to the Sandbox Participants Reports page.	IESO Participant Reports Click https://reports.ieso.ca/ to go to the Participants Reports page.

Reason for Change

The IESO is upgrading the Transmission Rights (TR) Auction platform to align with other IESO systems. The existing platform has been in use for the last 15 years while Ontario’s TR market has operated based on its original design since market opening in 2002. An updated platform will enable the IESO to adapt to and accommodate changes in the TR market, and reduce costs by leveraging existing investments including infrastructure, security, storage, etc. The upgraded platform will also minimize risks associated with running the TR auction on outdated and unsupported technology, improving the reliability of the TR market.

The IESO will leverage this change to also implement a market enhancement: permitting multiple bid laminations. The opportunity to upgrade the market with multiple bid laminations came about during a TR Market Review (completed June 2021) that identified opportunities to improve functionality and flexibility for market participants.

Description of Change

This change will deliver a modernized Transmission Rights Auction (TRA) platform, including a new user interface, and will implement the functionality to permit multiple bid laminations.

Expected Impact

Online IESO

For the two changes being introduced, the impact is as follows:

1. The new TRA user interface will not require any software or hardware modifications to Market Participant tools. However, TR auction users will need to acquaint themselves with the new interface. The new interface will resemble existing IESO tools, such as the Capacity Auction, as it will be part of the Online IESO platform.
2. Adding functionality to permit the submission of multiple bid laminations. TR auction users will have the option to maintain their current bidding strategy or expand it to incorporate different price sensitivities.

There will be no impact to the existing TRA schedule as part of this change. Users can continue to access historical data from the past two years via the new TRA platform. On the implementation day, users will not be able to access the current TRA platform. Post go-live, users can access the TRA platform via Online IESO.

IESO Participant Reports

Users will be able to log in with their current account and see their organization on the Online IESO TRA page. Users who represent multiple organizations will be able to sign in with their primary account and switch views between the different organizations they represent on the TRA page. Users who represent multiple organizations will be notified of their primary account information before go-live.

If further clarification is required, please email customer.relations@ieso.ca.

Renew SSL Certificates

Stakeholder & Document References

On May 25, 2023, the IESO distributed an urgent communication advising market participants to download new intermediate and root certificates from Digicert on or before May 29, 2023 and import them to their Java Truststore.

These changes will only impact market participants who have not updated the intermediate and root certificates as of May 2023.

Reason for Change

The reason for these changes is to renew SSL certificates ahead of the expiration date.

On May 29, 2023, the IESO updated the web certificates for IESO Web Services, including new intermediate and root certificates from the IESO's certificate authority (CA), Digicert.

Market Participants who integrate with IESO Web Services through API will have updated the intermediate and root certificates before May 29, prior to the IESO updating its certificates otherwise there will have been a loss of API connectivity to IESO Web Services.

Note: Market participants who have already updated the intermediate and root certificates from Digicert as of May 2023 will NOT be impacted.

Description of Change

The IESO will renew the SSL certificates used for the sandbox sites listed below on April 25, 2024 and for production sites listed below on June 5, 2024.

Expected Impact

Market participants who have updated the intermediate and root certificates from Digicert as of May 2023 will not be impacted. Users may need to refresh the webpage when the certificate is renewed.

Market participants who have not updated the intermediate and root certificates from Digicert as of May 2023 will need to download new certificates from Digicert and import them to their Java Truststore.

The IESO has drafted instructions to assist Market Participants with downloading and importing the new certificates:

1. Click the following link to go to Digicert: <https://www.digicert.com/kb/digicert-root-certificates.htm>
2. Search specifically for the following certificates, identified below by the red, bold lettering:

- **Root Cert – DigiCert Global Root G2**

Serial #: 03:3A:F1:E6:A7:11:A9:A0:BB:28:64:B1:1D:09:FA:E5

<p>DigiCert Global Root G2</p> <p>Download PEM Download DER/CRT</p>	<p>Valid until: 15/Jan/2038</p> <p>Serial #: 03:3A:F1:E6:A7:11:A9:A0:BB:28:64:B1:1D:09:FA:E5</p> <p>SHA1 Fingerprint: DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4</p> <p>SHA256 Fingerprint: 0B:3C:08:87:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:0B:5F</p> <p>Demo Sites for Root: Active Certificate expired revoked</p>
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- **Intermediate Cert - DigiCert Global G2 TLS RSA SHA256 2020 CA1**

Serial #: 0c:f5:bd:06:2b:56:02:f4:7a:b8:50:2c:23:cc:f0:66

<p>DigiCert Global G2 TLS RSA SHA256 2020 CA1</p> <p>Download PEM Download DER/CRT</p>	<p>Issuer: DigiCert Global Root G2</p> <p>Valid until: 29/Mar/2031</p> <p>Serial #: 0c:f5:bd:06:2b:56:02:f4:7a:b8:50:2c:23:cc:f0:66</p> <p>SHA1 Fingerprint: 1B:51:1A:BE:AD:59:06:CE:20:70:77:00:BF:0E:00:43:B1:38:26:12</p> <p>SHA256 Fingerprint: C8:02:5F:9F:06:5F:DF:09:5B:3C:A8:0C:78:67:B9:A5:87:B5:27:79:73:95:79:17:46:3F:08:13:D0:B6:25:A9</p>
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3. Click **Download DER/CRT** to download the certificates.
4. Once the root and intermediate certificates have been downloaded, they will need to be imported to the Java Truststore. The steps to import the certificates may differ between Market Participants and will differ between Windows and Linux systems.

ID103374, ID103378 - Renew SSL certificates: outages-sbx.ieso.ca, dispatch-sandbox.ieso.ca

Type of change

Real Time, Category 3.

Applications Impacted

Sandbox	Production
outages-sbx.ieso.ca	N/A
dispatch-sandbox.ieso.ca	

Reason for Change

This change is to renew the SSL certificates for outages-sbx.ieso.ca, dispatch-sandbox.ieso.ca ahead of their expiration dates.

Description of Change

This change will renew the SSL certificates for sbx-outages.ieso.ca, dispatch-sandbox.ieso.ca so that they expire in 2025.

Expected Impact

Users may need to refresh the pages after the certificates are renewed.

ID103375, ID103387, ID103388, ID103379, ID103383 - Renew SSL certificates: gateway-sbx.ieso.ca, trsbx.ieso.ca, tr.ieso.ca, weblogicprudential.ieso.ca, ieso.ca

Type of change

Non-Real Time, Category 3.

Applications Impacted

Sandbox	Production
gateway-sbx.ieso.ca	tr.ieso.ca
trsbx.ieso.ca	weblogicprudential.ieso.ca
	ieso.ca

Reason for Change

This change is to renew the SSL certificates for gateway-sbx.ieso.ca, trsbx.ieso.ca, tr.ieso.ca, weblogicprudential.ieso.ca, and ieso.ca ahead of their expiration dates.

Description of Change

This change will renew the SSL certificates for gateway-sbx.ieso.ca, trsbx.ieso.ca, tr.ieso.ca, weblogicprudential.ieso.ca, and ieso.ca so that they expire in 2025.

Expected Impact

Users may need to refresh the pages after the certificates are renewed.

About the IT Release Plan

Four times a year, the IESO coordinates a release package of changes to IESO systems that will impact users outside the IESO. These changes are categorized as either:

- **Category 2** change (users will have to make a functional change, such as an update to a procedure), or
- **Category 3** change (users will have to modify a technical interface with an IESO system or solution).

For each release, three versions of the Release Plan are published:

1. Preliminary Release Plan
2. Target Release Plan
3. Final Release Plan

The IT Release Schedule provides the planned dates for each release. Dates for specific changes may differ from the calendar dates, but these will be provided in the Release Plan. For the full 2024 Release Schedule on the IESO webpage, [click here](#).

Sandbox Implementation is the date the change is deployed on the IESO Sandbox environment, used for testing and training.

Production Build is the date the change goes live. This may happen during either:

1. Real-Time Build for systems used to interact with the IESO-Controlled Grid or IESO-Administered Market, or
2. Non-Real Time Build for other systems used to interact with the IESO, such as those used for settlements or registration activities.

Efforts are made to minimize the impacts of system outages during planned releases. Planned outages are posted in advance on the IESO Planned IT Outages webpage. [Click here for a link](#).