
Connectivity Testing: Energy Market Interface (EMI) User Interface (UI)

February 5, 2024



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Preface

This document outlines the test cases to be executed as part of the connectivity testing phase for the applications impacted by the Market Renewal Program (MRP). In this phase of testing, the primary objective is to assess and validate the connectivity components of the systems. Comprehensive functional testing phases will be scheduled for a future date and is not in scope of this test.

Please ensure any anomalies, disruptions, or irregularities discovered while performing the connectivity testing are documented in the qTest or Issue Log Template. This will contribute significantly to the overall improvement of the IESO tools.

Preconditions:

- 1. Access to <https://gateway-sbx.ieso.ca/>**
- 2. Access to the IESO's Energy Market Interface (EMI) sandbox environment**

Notes

- 1. Some of the images in this document reflect the current EMI, and will be updated when the MRP application becomes available during Connectivity Testing.**

TC01 - Access EMI UI through Application URL

Step User Instruction

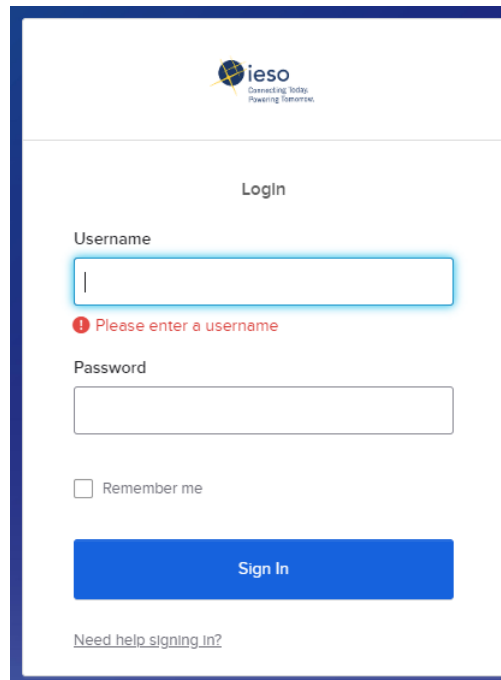
Expected Result

1. Navigate to the EMI for MRP Sandbox URL using the Microsoft Edge browser:
<https://emi-sandboxmrp.ieso.ca/>.

Login using the same credentials used to authenticate

<https://gateway-sbx.ieso.ca/>.

An authentication page should load where the user can enter their login credentials.



ieso
Connecting Today.
Powering Tomorrow.

Login

Username

Please enter a username

Password

Remember me

Sign In

[Need help signing in?](#)

Step User Instruction

Expected Result

- Following a successful login, ensure the webpage is directed to the EMI web application.

Following the login, the EMI user interface should be loaded.

The screenshot displays the Energy Market Interface (EMI) user interface. The page title is "Energy Market Interface (EMI)" and the current time is "2024/01/31 14:24 EST". The interface includes a navigation menu on the left with "Market Information" and "Markets". The main content area shows "Market Status" for the period "Generated : 2024/01/31 14:24:19 EST - 2024/01/31 14:24:19 EST". Below this, there is a table with columns for "Market Hour", "Daily and Hourly Data", "Daily Data", and "Hourly Data". The table contains data for market hours from 2024/01/30 01 to 2024/01/30 19. The "Start of Daily Closed Window (EST)" for 2024/01/30 23:50 is highlighted in yellow. The footer of the page reads "Copyright © 2015 Independent Electricity System Operator".

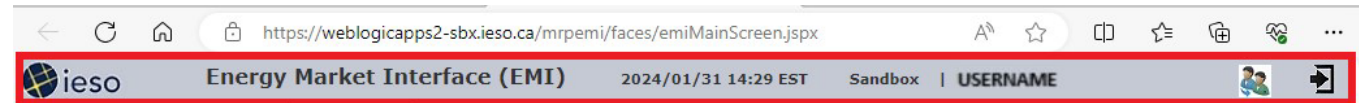
Market Hour	Daily and Hourly Data		Daily Data		Hourly Data		
	Start of Hourly & Daily Initial Window (EPT)	Start of Daily Restricted Window (EPT)	Start of Daily Mandatory Window (EPT)	Start of Daily Closed Window (EST)	Start of Hourly Unrestricted Window (EPT)	Start of Hourly Unrestricted Window at 20:00 EST of PD Day (EST)	Start of Hourly Mandatory Window (EST)
2024/01/30 01		2024/01/29 13:29	2024/01/29 15:30	2024/01/30 23:50	2024/01/29 15:30	2024/01/29 20:00	2024/01/29 22:00
2024/01/30 02					2024/01/29 15:30	2024/01/29 20:00	2024/01/29 23:00
2024/01/30 03					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 00:00
2024/01/30 04					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 01:00
2024/01/30 05					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 02:00
2024/01/30 06					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 03:00
2024/01/30 07					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 04:00
2024/01/30 08					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 05:00
2024/01/30 09					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 06:00
2024/01/30 10					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 07:00
2024/01/30 11					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 08:00
2024/01/30 12					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 09:00
2024/01/30 13					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 10:00
2024/01/30 14					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 11:00
2024/01/30 15					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 12:00
2024/01/30 16					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 13:00
2024/01/30 17					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 14:00
2024/01/30 18					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 15:00
2024/01/30 19					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 16:00

Step User Instruction**Expected Result**

3 Validate the details in the header section are displayed in the following order starting from the left:

1. IESO Logo
2. Title = "Energy Market Interface (EMI)"
3. Login Date/time is displayed in the format YYYY/MM/DD HH:MM EST
4. Sandbox | Participant Username
5. Log out button

The header section should be similar to the following:



Step User Instruction

Expected Result

4 Validate the options displayed on the left panel for **Market Information** and **Markets** of the EMI UI. The menu should display the following:

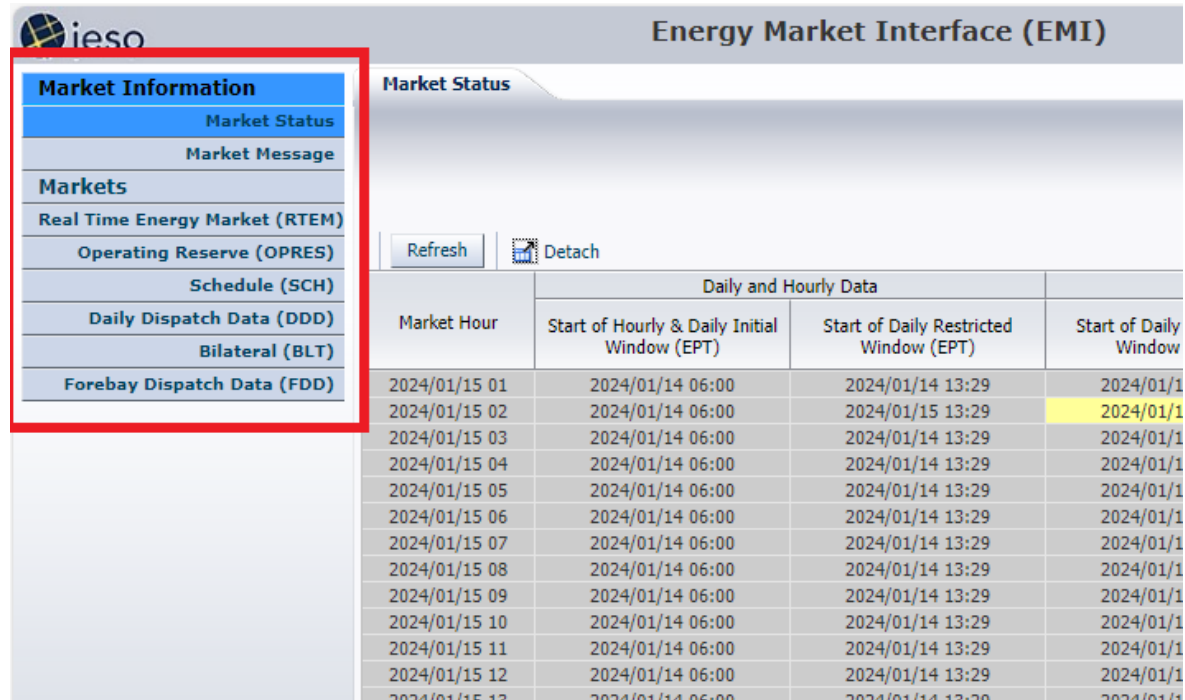
Market information

- Market Status
- Market Message

Markets

- Real Time Energy Market (RTEM)
- Operating Reserve (OPRES)
- Schedule (SCH)
- Daily Dispatch Data (DDD)
- Bilateral (BLT)
- Forebay Dispatch Data (FDD)

The left panel should be similar to the following:

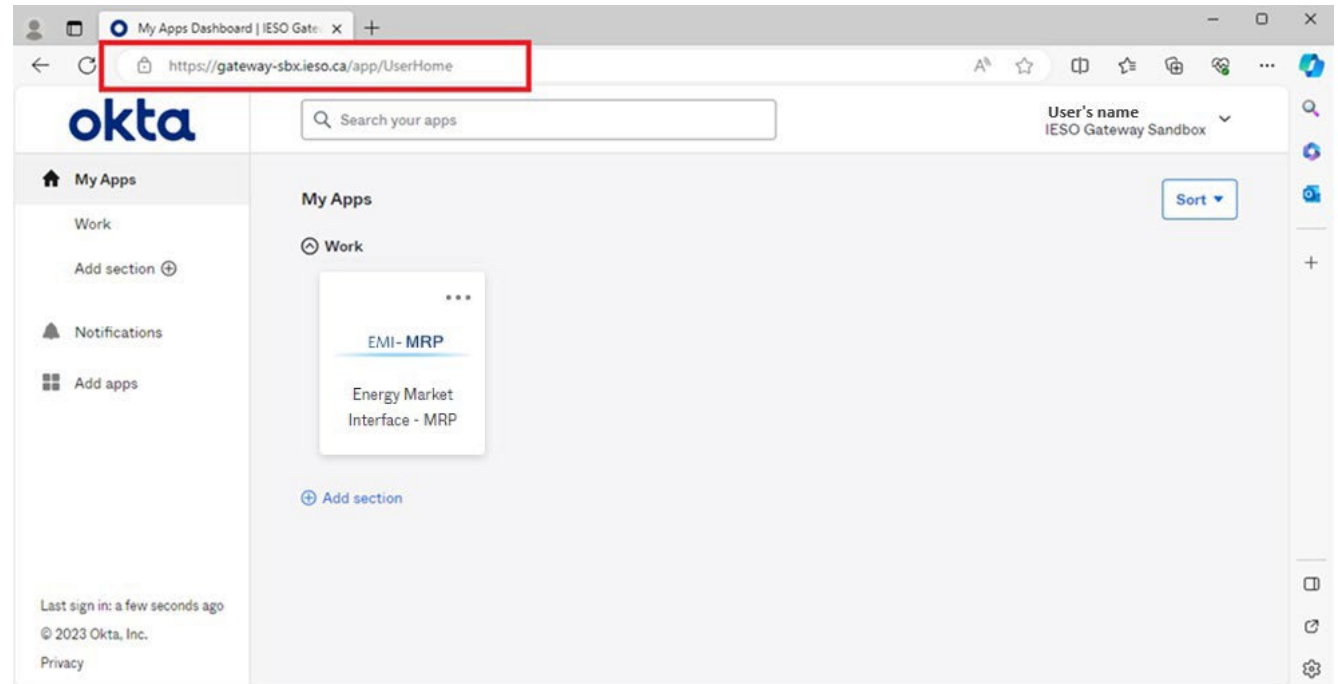


Step User Instruction

Expected Result

- 5 Log out of the EMI UI by clicking **Logout** beside the username in the top right corner.

After clicking **Logout** button as shown below, the page will be redirected to the Gateway landing page:



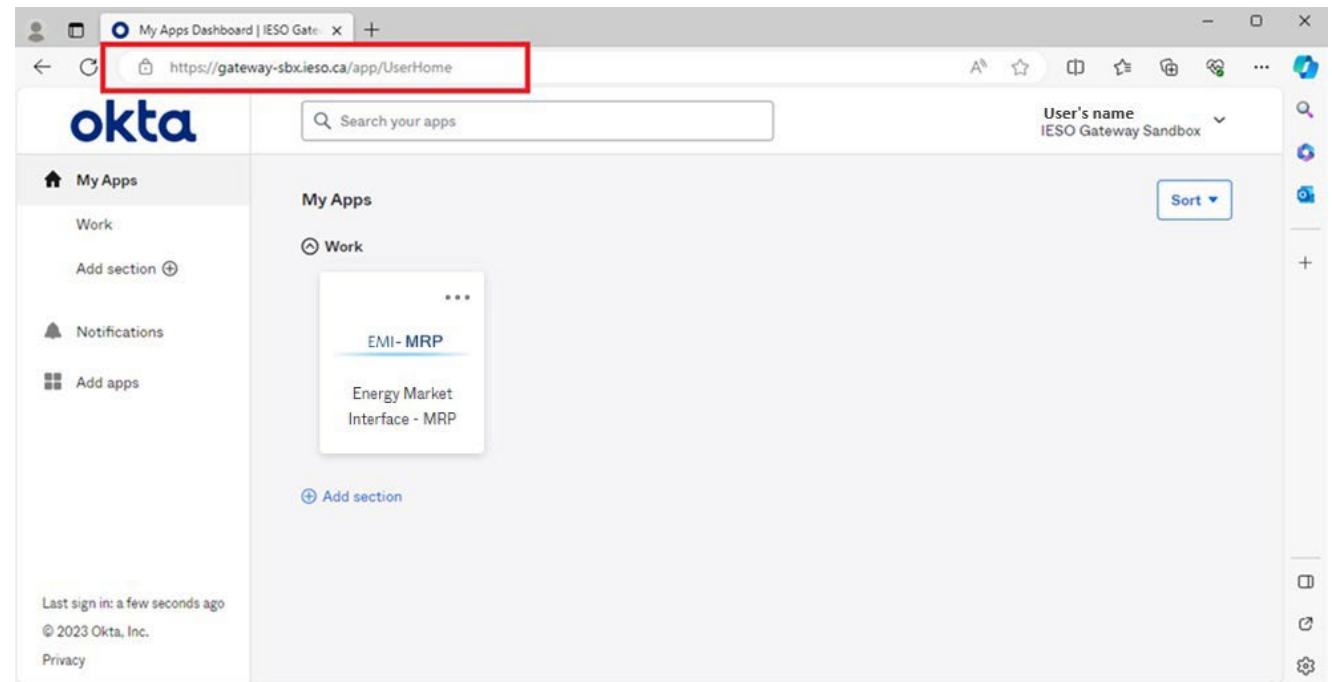
TC02 - Access EMI UI through IESO's Gateway

Step User Instruction

Expected Result

1. Navigate to the IESO's Gateway (Sandbox) webpage: <https://gateway-sbx.ieso.ca/> and find the **Energy Market Interface – MRP** tile under **My Apps**.

The **Energy Market Interface – MRP** tile should be available on the webpage.



Step User Instruction

Expected Result

- Click on the Energy Market Interface – MRP tile.

A new window or tab should open with the EMI user interface.

The screenshot displays the Energy Market Interface (EMI) user interface. The browser address bar shows the URL: <https://weblogicapps2-sbx.ieso.ca/mrpem/faces/emiMainScreen.jspx>. The page title is "Energy Market Interface (EMI)" and the current time is "2024/01/31 14:24 EST". The user is logged in as "USERNAME" in a "Sandbox" environment. The interface includes a navigation menu on the left with "Market Information" and "Markets". The main content area is titled "Market Status" and shows "Generated : 2024/01/31 14:24:19 EST - 2024/01/31 14:24:19 EST". Below this, there is a table with columns for "Market Hour", "Start of Hourly & Daily Initial Window (EPT)", "Start of Daily Restricted Window (EPT)", "Start of Daily Mandatory Window (EPT)", "Start of Daily Closed Window (EST)", "Start of Hourly Unrestricted Window (EPT)", "Start of Hourly Unrestricted Window at 20:00 EST of PD Day (EST)", and "Start of Hourly Mandatory Window (EST)". The table contains data for market hours from 2024/01/30 01 to 2024/01/30 19. The "Start of Daily Closed Window (EST)" column for the first row is highlighted in yellow. The footer of the page reads "Copyright © 2015 Independent Electricity System Operator".

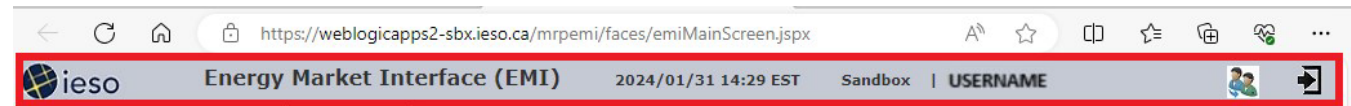
Market Hour	Daily and Hourly Data		Daily Data		Hourly Data		
	Start of Hourly & Daily Initial Window (EPT)	Start of Daily Restricted Window (EPT)	Start of Daily Mandatory Window (EPT)	Start of Daily Closed Window (EST)	Start of Hourly Unrestricted Window (EPT)	Start of Hourly Unrestricted Window at 20:00 EST of PD Day (EST)	Start of Hourly Mandatory Window (EST)
2024/01/30 01		2024/01/29 13:29	2024/01/29 15:30	2024/01/30 23:50	2024/01/29 15:30	2024/01/29 20:00	2024/01/29 22:00
2024/01/30 02					2024/01/29 15:30	2024/01/29 20:00	2024/01/29 23:00
2024/01/30 03					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 00:00
2024/01/30 04					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 01:00
2024/01/30 05					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 02:00
2024/01/30 06					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 03:00
2024/01/30 07					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 04:00
2024/01/30 08					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 05:00
2024/01/30 09					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 06:00
2024/01/30 10					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 07:00
2024/01/30 11					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 08:00
2024/01/30 12					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 09:00
2024/01/30 13					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 10:00
2024/01/30 14					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 11:00
2024/01/30 15					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 12:00
2024/01/30 16					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 13:00
2024/01/30 17					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 14:00
2024/01/30 18					2024/01/29 15:30	2024/01/29 20:00	2024/01/30 15:00
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Step User Instruction**Expected Result**

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The header section should be similar to the following:



Step User Instruction

Expected Result

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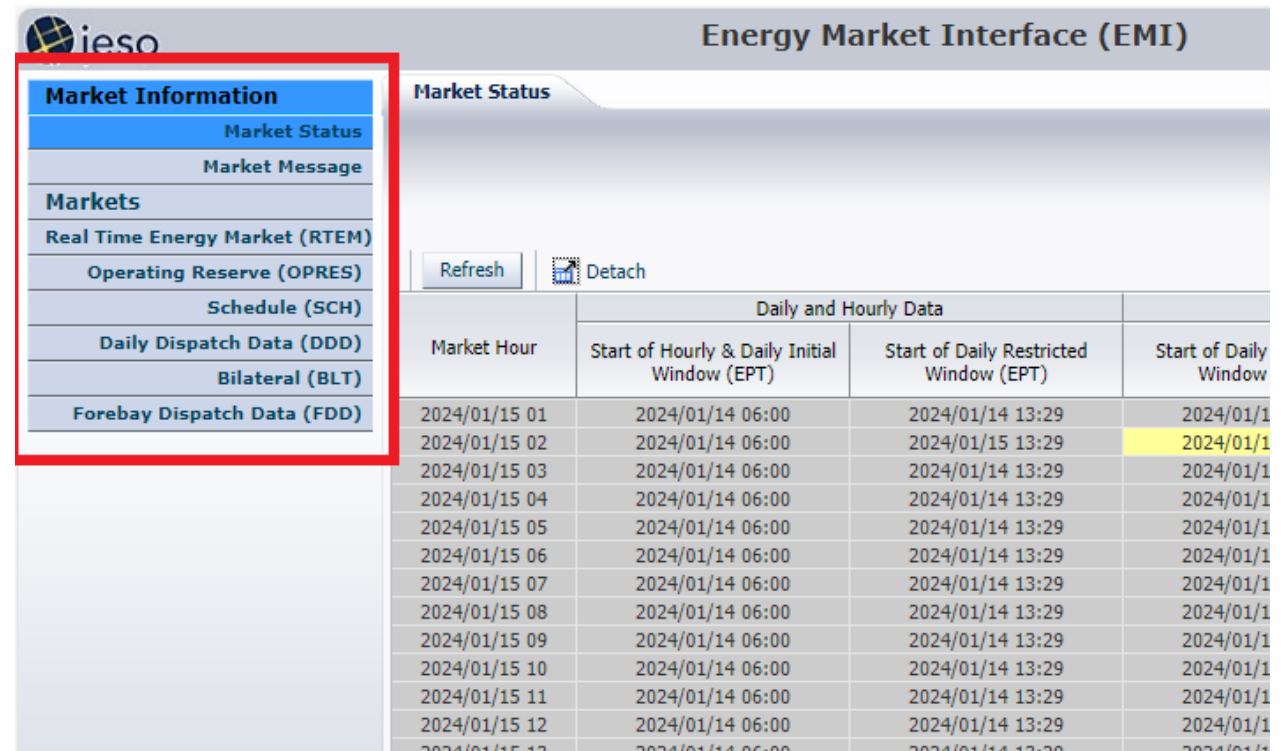
Market information

- Market Status
- Market Message

Markets

- Real Time Energy Market (RTEM)
- Operating Reserve (OPRES)
- Schedule (SCH)
- Daily Dispatch Data (DDD)
- Bilateral (BLT)
- Forebay Dispatch Data (FDD)

The left panel should be similar to the following:

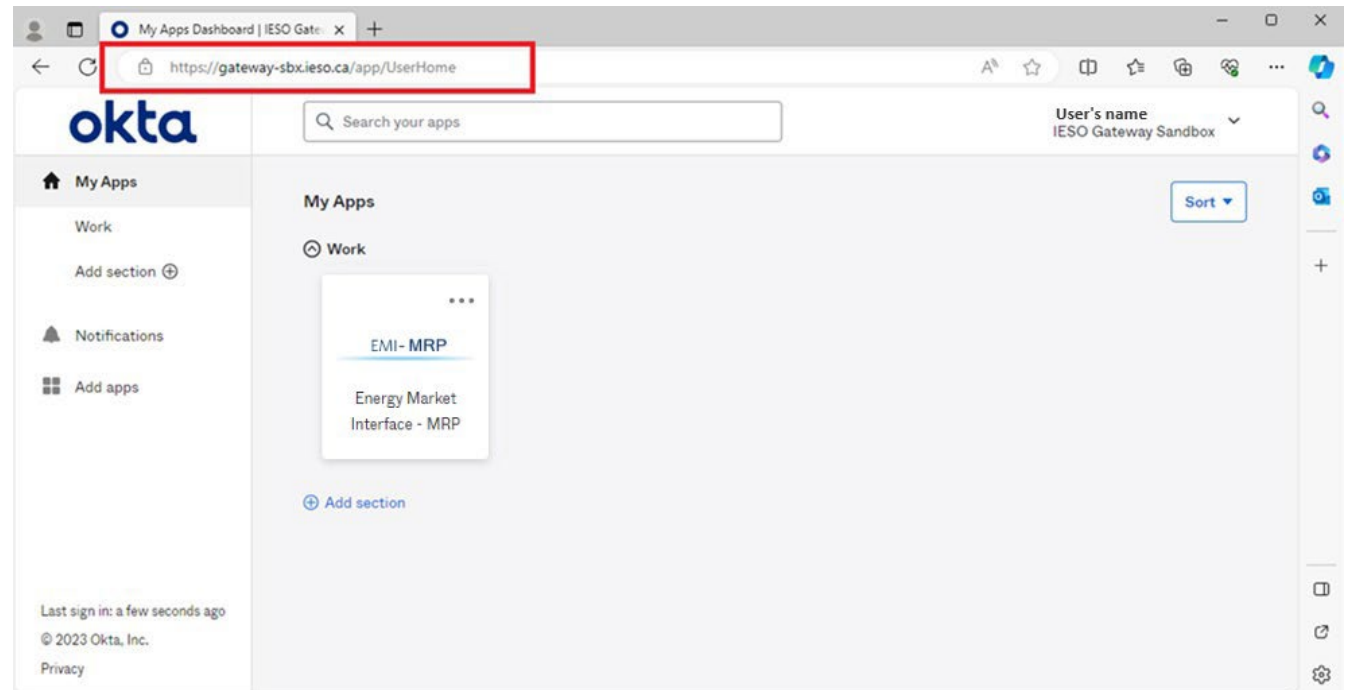


Step User Instruction

Expected Result

- 5 Log out of the EMI UI by clicking **Logout** beside the username in the top right corner.

After clicking **Logout** button as shown below, the page will be redirected to the Gateway landing page:



Additional Resources

- Training material on the Market Information Management System are available here:
 - [IESO Gateway User Guide](#)
 - [IESO Gateway FAQ](#)
 - IESO Gateway Recorded Webinar's
 - [July 21, 2021 - 11:00 am session](#)
 - [July 21, 2021 – 2:00 pm session](#)
 - [Submitting, Revising and Cancelling Energy Bids](#)
 - [Submitting, Revising and Cancelling Energy Offers](#)
 - [Submitting, Revising and Cancelling Schedules and Forecasts](#)
 - [Submitting, Revising and Cancelling Import Offers and Export Bids](#)
 - [Submitting, Revising and Cancelling Operating Reserve Offers](#)

**Independent Electricity
System Operator**

1600-120 Adelaide Street West
Toronto, Ontario M5H 1T1

Phone: 905.403.6900

Toll-free: 1.888.448.7777

E-mail: customer.relations@ieso.ca

ieso.ca

 [@IESO_Tweets](https://twitter.com/IESO_Tweets)

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