
Guide to Submitting New Registration Parameters and Forms in Online IESO

October 2023



AN IESO MARKETPLACE TRAINING PUBLICATION

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1. Introduction

The IESO is implementing a renewed market in May 2025. As part of this implementation, new registration forms and parameters will be introduced and updated in Online IESO. This document provides a summary of these parameters and forms, as well as step-by-step instructions for market participants to follow when providing this information in Online IESO.

This document will:

- identify which resource registration parameters are new, updated, or will be retired in the renewed market;
- explain the purpose of each new or updated resource registration parameter or why a parameter is being deleted;
- explain how to submit the new or updated registration parameters in Online IESO;
- explain the concept of a Market Control Entity (MCE);
- identify who needs to submit MCEs; and
- explain how to update MCE information in Online IESO.

2. Resource Registration Parameters

2.1 Pseudo-Unit Resources

Currently, combined cycle gas generators participating in the IESO market may elect to submit dispatch data for pseudo-unit (PSU) resources in lieu of the associated physical units. Currently, PSU modelling is only used during the current day-ahead commitment process and physical units are used for the pre-dispatch and real-time timeframes. Under the renewed market, PSU modelling will be used in all three calculation engines and scheduling timeframes. Furthermore, along with new dispatch data, one additional registration parameter is being introduced for PSU units as described below.

i. Parameter: *Duct Firing 10-Minute Reserve Capability*

Type of Change: New

Description: Steam turbines may not have the capability to initiate duct firing to respond to a 10-minute reserve activation within the duct firing operating region. Therefore, the new registration parameter will allow the IESO to schedule PSUs with this capability in the Day-Ahead Market (DAM), Pre-Dispatch (PD) and Real-Time Market (RTM) timeframes. When set to **No**, a PSU will not be scheduled for 10-minute synchronized or 10-minute non-synchronized operating reserve in the duct firing region. A value of **Yes** allows calculation engines to schedule any class of operating reserve in the duct firing region. The table below provides a summary of the new registration parameter that will be used by the IESO for scheduling PSU units.

Registration Parameter Name	Type of Change	Entered By	Mandatory or Optional	Brief Description
<i>Duct Firing 10-Minute Reserve Capability</i>	New	Market Participant	Mandatory	<ul style="list-style-type: none">Determines which class of operating reserve can be scheduled in the duct firing region

Table 1 | New Registration Parameter for PSU Resources

The steps, which describe how to update this pseudo-unit parameter in Online IESO are listed in Appendix A of this document.

2.2 Hydroelectric Resources

In today's market there is a limited ability to model hydroelectric generation resource's operational constraints. To address this inefficiency, the IESO is introducing new dispatch data parameters along with five new registration parameters. One existing registration parameter is being updated and two are being deleted. A summary of the new and impacted parameters is provided below.

i. Parameters: *Cascade Group and Forebay*

Type of Change: New

Description: Hydro resources on a cascade river system will be registered by the IESO with the new *Cascade Group* and *Forebay* parameters in order to account for the constraints related to their interdependencies. Each resource registered on a *Forebay* must share its maximum daily energy limit and its minimum daily energy limit with all other resources registered on that *Forebay*. In the Day-Ahead Market and the Pre-Dispatch scheduling process, all resources registered on a *Forebay* are evaluated such that the sum of their hourly schedules respect market participant submissions of the maximum daily energy limit and the minimum daily energy limit dispatch data parameters.

ii. Parameter: *Time Lag*

Type of Change: New

Description: Currently, there are specific intertemporal dependencies related to cascade hydro resources not easily reflected through offers submitted by market participants. To address this gap, the new *Time Lag* registration parameter is being introduced as a registration and dispatch data parameter. The value specifies the time for water discharged from an upstream resource to reach a downstream resource, which will be used by the IESO for more efficient scheduling of cascade hydro resources. The new registration parameter will be used by the calculation engine to validate that the associated dispatch data submission is less than the registered value.

iii. Parameter: *Hourly Must Run Flag*

Type of Change: New

Description: There are regulatory, environmental, and water management issues requiring hydro resources to run under certain conditions. The new *Hourly Must Run Flag* will be used by the calculation engine to determine eligibility for submission of the associated new "Hourly Must Run" dispatch data. If the *Hourly Must Run Flag* has a value of **Yes**, then the market participant will be permitted to submit the Hourly Must Run dispatch data parameter in the scheduling processes and the IESO would schedule hydro resource to no less than its hourly must run value. A value of **No** will not permit the market participant to submit the hourly must run dispatch data parameter in the calculation engine.

iv. Parameter: *Start Indication Value*

Type of Change: New

Description: A new *Start Indication Value* registration parameter (for Hydro Resources) will be used to identify the minimum quantity of energy that must be generated by the unit in order for it to be considered a material start. Additionally, hydro resources can be aggregated to represent more than one physical unit, but each unit may have a different *Start Indication Value*. The *Start Indication Value* in conjunction with the *Maximum Number of Starts Per Day* dispatch data will be used to limit the number of times a hydro resource can be scheduled, on an hourly basis.

v. Parameter: *Forbidden Regions*

Type of Change: Updated

Description: *Forbidden Regions* is an existing registration parameter that identifies operating ranges where resources are unable to operate safely. The number of *forbidden regions* that resources can provide is being expanded from three to five. This parameter will continue to be used by the calculation engine to validate dispatch data submissions.

vi. Parameter: *Daily Cascading Hydroelectric Dependency*

Type of Change: Retired

Description: This parameter is being replaced by the new *Time Lag* parameter.

vii. Parameter: *Eligible Energy Limited Resource (EELR) Flag*

Type of Change: Retired

Description: This parameter is currently used as a qualifier for daily energy limit submissions. This parameter will be retired as the new DAM will not have a re-submission window.

Registration Parameter Name	Type of Change	Entered By	Mandatory or Optional	Brief Description
<i>Cascade Group & Forebay</i>	New	IESO	Optional	<ul style="list-style-type: none">Registered by the IESO to establish the relationship between upstream and downstream resourcesAll resources registered on a <i>Forebay</i> must have the same registered market participantAll resources registered on each <i>Forebay</i> within a <i>Cascade Group</i> must have the same owner

Registration Parameter Name	Type of Change	Entered By	Mandatory or Optional	Brief Description
<i>Time Lag</i>	New	Market Participant	Optional	<ul style="list-style-type: none"> • Time required for water discharged from an upstream forebay to reach the adjacent downstream forebay • Market participants are required to submit documentation that demonstrates cascading dependency • Used by the calculation engine to ensure that dispatch data submissions for <i>time lag</i> are less than the registered value
<i>Hourly Must Run Flag</i>	New	Market Participant	Optional	<ul style="list-style-type: none"> • Indicator for a resource that has hourly must run conditions • Market participant must submit supporting documentation demonstrating hourly must run conditions • Used by the calculation engine to determine eligibility for submission of hourly must run as dispatch data
<i>Start Indication Value</i>	New	Market Participant	Optional	<ul style="list-style-type: none"> • Minimum quantity of energy to which a generation unit must be scheduled • Used by the day-ahead and pre-dispatch calculation engines to determine the number of available starts remaining for the resource
<i>Number of Forbidden Regions</i>	Updated	Market Participant	Optional	<ul style="list-style-type: none"> • Will be expanded from three to five pre-defined operating ranges where resources are unable to operate safely • Will be used by THE CALCULATION ENGINE to validate dispatch data submissions
<i>Daily Cascading Hydroelectric Dependency</i>	Retired	N/A	N/A	<ul style="list-style-type: none"> • Replaced by the new <i>time lag</i> registration parameter
<i>Eligible Energy Limited Resource (EELR) Flag</i>	Retired	N/A	N/A	<ul style="list-style-type: none"> • New Day-Ahead Market will not have a re-submission window • Currently used as qualifier for daily energy limit submission

Table 2 | New, Updated and Retired Registration Parameters for Hydroelectric Resources

The steps, which describe how to update these hydroelectric parameters in Online IESO are listed in Appendix B of this document.

2.3 Non-Quick Start Resources

There are a number of changes to Non-Quick Start (NQS) modelling as a result of the renewed market.

i. Parameter: *GOG Eligibility Flag*

Type of Change: Updated

Description: This parameter will replace the existing *Production Cost Guarantee (PCG) Eligibility Flag*, and will indicate whether or not a resource is eligible for a generator offer guarantee. The *GOG Eligibility Flag* is automatically set by the IESO. The resource is eligible when the following criteria are met:

Quick Start = No
 AND Minimum Loading Point > 0 MW
 AND Minimum Generator Block Run Time > 1 hour
 AND Estimated Time to Dispatch > 60 min

ii. Parameters: *Minimum Loading Point (MLP)* and *Minimum Generator Block Run Time (MGBRT)*

Type of Change: Updated

Description: Both the MLP and MGBRT are currently used by the calculation engine to validate dispatch data. In the renewed market, the calculation engine will no longer use these parameters for validation. However, these parameters are retained to establish GOG eligibility.

iii. Parameters: *Speed No-Load and Start-Up Offer Flag*

Type of Change: New

Description: New parameters, which will replace the existing three-part offer flag. These parameters indicate that the market participant is intending to submit speed no-load and start-up offers respectively.

iv. Parameters: *Day Ahead-Production Cost Guarantee Eligibility Flag*, *Real Time-Generator Cost Guarantee Eligibility Flag*, and *Production Cost Guarantee Eligibility Flag*

Type of Change: Retired

Description: The *GOG Eligibility Flag* will replace the above existing parameters.

Registration Parameter Name	Type of Change	Entered By	Mandatory or Optional	Brief Description
<i>GOG Eligibility Flag</i>	New	IESO	Optional	<ul style="list-style-type: none"> New parameter that will replace the existing PCG Eligibility Flag

Registration Parameter Name	Type of Change	Entered By	Mandatory or Optional	Brief Description
<i>Minimum Loading Point (MLP)</i>	Updated	Market Participant	Mandatory	<ul style="list-style-type: none"> No longer used by the calculation engine to validate dispatch data submissions Will be used to establish GOG eligibility
<i>Minimum Generator Block Run Time (MGBRT)</i>	Updated	Market Participant	Optional	<ul style="list-style-type: none"> No longer used by the calculation engine to validate dispatch data submissions Will be used to establish GOG eligibility
<i>Speed No-Load Flag</i>	New	Market Participant	Mandatory	<ul style="list-style-type: none"> Indicates the market participant's intent to submit speed no-load offers
<i>Start-Up Offers Flag</i>	New	Market Participant	Mandatory	<ul style="list-style-type: none"> Indicates the market participant's intent to submit start-up offers
<i>DA-PCG Eligibility Flag</i>	Retired	N/A	N/A	<ul style="list-style-type: none"> Day-Ahead Production Cost Guarantee program will be retired
<i>RT-GCG Eligibility Flag</i>	Retired	N/A	N/A	<ul style="list-style-type: none"> Real-Time Generator Cost Guarantee program will be retired
<i>PCG Eligibility Flag</i>	Retired	N/A	N/A	<ul style="list-style-type: none"> Parameter will be replaced by the Generator Offer Guarantee Eligibility Flag

Table 3 | New, Updated and Retired Registration Parameters for NQS Resources

2.4 Price Responsive Loads

Non-dispatchable loads may participate in the renewed market as a Price Responsive Load (PRL). To support this new resource type, the existing bid/offer type parameter will be updated to allow PRLs to submit bids in the Day-Ahead Market. Furthermore, a new parameter is being added to validate bids from PRLs that also act as an Hourly Demand Response (HDR) participant.

i. Parameter: *Maximum Load – Active Power*

Type of Change: New

Description: This new parameter is the maximum energy withdrawal capacity of the resource, which is calculated automatically by the IESO as the sum of "Total Peak Load - Active power" from all associated load equipment. It will be used by the calculation engine to validate energy bids. If a PRL is also an HDR participant, the parameter will be used to reject energy bids that result in a total HDR and energy bid amount greater than the registered value. The validation will prevent a PRL from submitting a bid quantity that is greater than its physical consumption ability.

ii. Parameters: *Bid/Offer Type*

Type of Change: Updated

Description: To support the addition of the new PRL resource type, a new "Day Ahead Price Responsive" option will be added to the existing list of options (Non-Dispatchable and Dispatchable).

Registration Parameter Name	Type of Change	Entered By	Mandatory or Optional	Brief Description
<i>Maximum Load – Active Power</i>	New	IESO	Mandatory	<ul style="list-style-type: none"> Maximum withdrawal capacity of a price responsive load. Calculated as the sum of "Total Peak Load - Active power" from all associated load equipment To be used by the calculation engine to prevent PRLs that also participate as physical HDR resources from implicitly acting like virtual traders
<i>Bid/Offer Type</i>	Updated	Market Participant	Mandatory	<ul style="list-style-type: none"> Values will be updated to include "Day-Ahead Price Responsive"

Table 3 | New and Updated Registration Parameters for PRLs

The steps that describe how to identify a resource as a price responsive load in Online IESO are listed in Appendix C of this document.

3. Market Control Entity

3.1 What are Market Control Entities (MCEs)?

MCEs are persons and/or entities that have the ability to control or influence, directly or indirectly, the participation of a market participant (MP) in the Day-Ahead Market and Real-Time Market. An MCE can be a person or an entity already registered with the IESO or external to the IESO.

There are two types of MCEs that are required to be disclosed to the IESO by MPs as described below.

Market Control Entity

Market Control Entity is an entity that is associated with an MP but may not necessarily have total control of its market operations. This information is used to assist the IESO to conduct general market monitoring activities. MPs are **required** to disclose **all** persons or entities that:

- own voting securities of the MP,
- are able to appoint or elect directors of the MP,
- are a partner in or of the MP, have beneficial interest in the MP,
- are an affiliate of the MP, receive profits of the MP,
- has the right or ability to determine a resource's bids and offers of the MP, or
- the ability to follow the dispatch instructions given to a resource of the MP.

For more details, refer to [Market Rules Chapter 7, section 22.9](#).

A *Market Control Entity* is required to be identified by the MP for each of its resources that is a generation resource, dispatchable load, PRL, electricity storage resource, energy trader, or a virtual trader.

Market Control Entity for Physical Withholding

The MP is required to designate one of the MCEs disclosed above as the *Market Control Entity for Physical Withholding*. The *Market Entity for Physical Withholding* is a single entity that has control of a market participant that owns dispatchable resources. Physical Withholding is when the MP is submitting energy offers or operating reserve offers that are significantly less than their reference quantities. When MPs hold back available supply, it may result in higher prices in the market. All MPs are required to designate one entity as the *Market Control Entity for Physical Withholding* for each of their resources. The MP is required to select the MCE for Physical Withholding using the criteria as set out in [Sections 22.9.4 - 22.9.8 of Chapter 7 of the Market Rules](#).

Refer to Appendix D of this document for instructions on how to submit MCE information in Online IESO.

3.2 Who has to disclose MCE information to the IESO?

The following Market Participant types are required to submit MCE information to the IESO:

1. Generators which includes:

- Dispatchable Generators
- Non-Dispatchable Generators

2. Wholesale Consumers which includes:

- Dispatchable Loads
- Price-Responsive Loads (PRLs)

3. Electricity Storage Resources which includes:

- Dispatchable generation resource and dispatchable load resource
- Self-scheduling generation resource
- Non-Dispatchable generation resource

4. Energy Traders

5. Virtual Traders

3.3 Best Practices

MPs are required to type out the Market Control Entity details such as the Legal Name, mailing address, postal code, and mailing country. When MPs type out the Legal Name of their Market Control Entity, it is important for MPs to submit accurate MCE information and to not use abbreviations. The IESO will review MCE submissions to ensure accuracy before approving them. If the IESO rejects the MCE submission, the IESO will send a comment through Online IESO to explain the reason for rejection, and the MCE task (under the Tasks tab) will be sent to the Applicant Representative to revise and resubmit.

3.4 Maintenance of MCE Information

Any changes to MCE information should be updated in Online IESO as soon as possible. If the MP wishes to transfer the registration of a facility to other MPs as a result of their intent to sell, lease, assign, or transfer control of the facility, the market control entity and/or the market control entity for physical withholding needs to be updated in Online IESO. It is important for MPs to have updated MCE information in Online IESO as the IESO conducts maintenance procedures from time to time to ensure that all facilities continue to meet the minimum requirements as per [Market Manual 7.3](#). The maintenance procedures also ensure any changes or additions to facilities and their associated resources participating in the IESO-administered market do not negatively impact the security and reliability of the IESO-controlled grid.



Further Reading

Market Rules under the [MRP Webpage](#):

- Market Rules Chapter 7: System Operations and Physical Markets

Market Manuals under the [MRP Webpage](#):

- Market Manual 1.5: Market Registration Procedures
- Market Manual 4.1: Submitting Dispatch Data in the Physical Markets
- Market Manual 7.3: Outage Management
- Market Manual 14.1: Market Power Mitigation Procedures

Appendix A: Updating Pseudo-Unit Parameters in Online IESO

1. Log in to [Online IESO](#) and select **Actions** on top of screen. Then select **Manage Resources** from the list of actions.

The screenshot shows the Online IESO interface. At the top, there is a navigation bar with tabs for News, Tasks (31), Records, Reports, and Actions. The Actions tab is highlighted with a red box. Below the navigation bar, there is a sidebar on the left with the IESO logo and a list of applications: Authorization Market Participation (AMP) (3), Capacity Auction (1), Manage Facilities and Equipment (2), Outage Management System (1), and Prudential System (MPPS) (1). The main content area displays a list of actions, each with a lightning bolt icon and a star icon. The 'Manage Resources' action is highlighted with a red box. Its description is 'Register a new resource, update existing resource information and relationships'.

2. Select **Manage Energy Resources** and click on **Next**.

The screenshot shows the 'Manage Resources' screen. At the top, there is a heading 'Manage Resources'. Below the heading, there is a section titled 'Select an Action'. The first option, 'Manage Energy Resources', is selected and highlighted with a red box. The other options are: Register Compliance Aggregation Model, Register Pseudo-Unit Resources, Register Resources for Virtual Capacity Obligations, Submit Cascade Group Lag Times, Modify User-Resource Relationships, Modify Resource Business Roles, Manage Resource Capacity Commitment, and Cancel In-Flight Request. To the right of the 'Select an Action' section, there is a description: 'Make resource a delivery point, switch the resource to non-dispatchable load, self-scheduling generator or intermittent generator, make resource a price responsive load, update resource attributes.' At the bottom of the screen, there are two buttons: 'CANCEL' and 'NEXT'. The 'NEXT' button is highlighted with a red box.

3. Select the **Owner Organization** and **Facility**. Provide a brief description in the text box provided and click on **Next**.

Manage Resources

Action

Manage Energy Resources

Make resource a delivery point, switch the resource to non-dispatchable load, self-scheduling generator or intermittent generator, make resource a price responsive load, update resource attributes.

Owner Organization *

ABC Corp

Select which organization owns the equipment associated to the resources you intend on managing

Select a Facility *

Site A

Provide a brief summary of your request. Also indicate any related Market Power Mitigation Reference Level / Reference Quantity request ID(s) or indicate that a new Reference Level / Reference Quantity request is required. *

Update Duct Firing 10-Minute Reserve Capability

BACK

NEXT

4. Select the appropriate steam turbine resource listed from **Existing Resource List** and click on **Modify Resource**.

Request Information

Request Type Manage Energy Resources

Request Number 9684

Organization ABC Corp

Facility Site A

Request Comment Duct Firing 10-Minute Reserve Capability

Resource List

<input type="checkbox"/>	Resource Name	Resource Type	New or Registered	Action	Connection Point	Review Status
No items available						

EDIT

REMOVE

Existing Resource List

<input type="checkbox"/>	Resource Name	Resource Type	Connection Point
<input type="checkbox"/>	TEST-R.09	GEN	TESTSITE
<input checked="" type="checkbox"/>	TEST-R.10	GEN	TESTSITE
<input type="checkbox"/>	TEST-R.11	GEN	TESTSITE

MODIFY RESOURCE

DECOMMISSION

5. From the **Generator Resource Details** page, scroll down and select either **Yes or No** under the **Duct Firing 10-minute Operating Reserve Capacity Flag** option. Indicate an effective date for this change in the **Proposed Effective Date** field and click **Complete**.

Generator Resource Details

Facility Name: Site A Resource ID: 100000

Resource Name: TEST-R.10

Connection Point: TESTSITE Operating Reserve Class*: All Types

Bid/Offer Type*: Dispatchable

Electricity Storage Resource Flag

Speed-No-Load Offer and Start-Up Offer Flag*: Yes No

GOG Election Flag: Yes No

Duct Firing 10-minute Operating Reserve Capacity Flag*: Yes No

Proposed Effective Date*: mm/dd/yyyy

Indicate the date that the resource changes should take effect

Comments

6. The modified resource will appear under the **Modified Resource List**. Click on **Submit** to complete the resource update request. The IESO will review and approve the changes.

Request Information

Request Type: Manage Energy Resources Request Number: 9684
 Organization: ABC Corp Facility: Site A
 Request Comment: Duct Firing 10-Minute Reserve Capability

Modified Resource List

<input type="checkbox"/>	Resource Name	Resource Type	New or Registered	Action	Connection Point	Review Status
<input type="checkbox"/>	TEST-R.10	GEN	Registered	Update	TESTSITE	Ready For Review

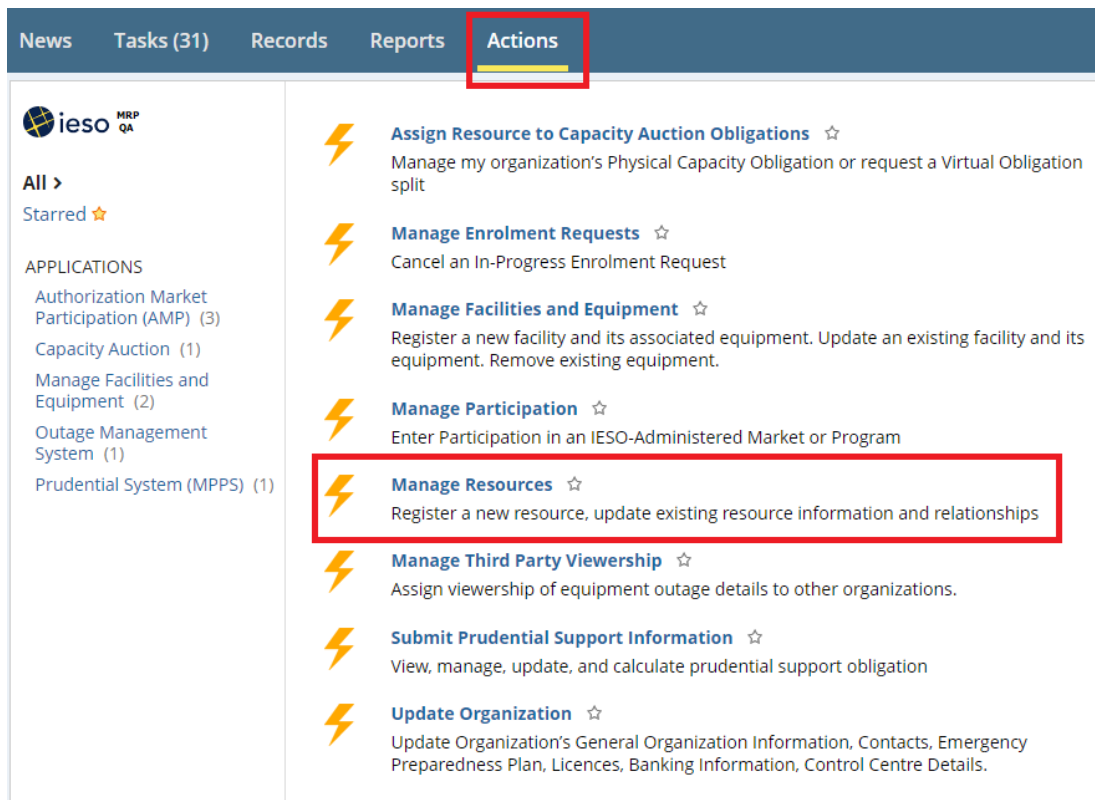
Existing Resource List

<input type="checkbox"/>	Resource Name	Resource Type	Connection Point
<input type="checkbox"/>	TEST-R.09	GEN	TESTSITE
<input type="checkbox"/>	TEST-R.11	GEN	TESTSITE

Appendix B: Updating Hydroelectric Parameters in Online IESO

Time Lag

1. Log in to [Online IESO](#) and select **Actions** on top of screen. Then select **Manage Resources** from the list of actions.



The screenshot shows the Online IESO interface. At the top, there is a navigation bar with tabs for News, Tasks (31), Records, Reports, and Actions. The 'Actions' tab is highlighted with a red box. Below the navigation bar, the main content area is divided into two columns. The left column contains the IESO logo and a list of applications: Authorization Market Participation (AMP) (3), Capacity Auction (1), Manage Facilities and Equipment (2), Outage Management System (1), and Prudential System (MPPS) (1). The right column contains a list of actions, each with a lightning bolt icon and a star icon. The 'Manage Resources' action is highlighted with a red box. The description for 'Manage Resources' is: 'Register a new resource, update existing resource information and relationships'.

2. Select **Submit Cascade Group Lag Times** and click on **Next**.

Manage Resources

Select an Action

Manage Time Lags for forebays within a cascade group

- Manage Energy Resources
- Register Compliance Aggregation Model
- Register Pseudo-Unit Resources
- Register Resources for Virtual Capacity Obligations
- Submit Cascade Group Lag Times**
- Modify User-Resource Relationships
- Modify Resource Business Roles
- Manage Resource Capacity Commitment
- Cancel In-Flight Request

CANCEL

NEXT

3. Select the **Organization** and **Cascade Group** and click on **Next**.

Manage Resources

Action

Submit Cascade Group Lag Times

Manage Time Lags for forebays within a cascade group

Organization for Forebay*

Select the organization you are representing

Select a Cascade Group for Forebay*

BACK

NEXT

4. Enter the **Max Time Lag** value for each Forebay that is upstream of the final Forebay. **Max Time Lag** values should be greater than or equal to 0 and less than or equal to 24. Upload the mandatory supporting documentation demonstrating the "Time Lag" conditions, then click **Submit** to complete the submission. The IESO will review and approve the update.

Request Details

Organization ID: 10000

Organization Name: ABC Corp

Facility Name:

Request Number: 9686

Request Type: Submit Cascade Group Lag Times

Request Start Date: 7/11/2023 10:18 AM EST

Request Status: In Progress

Forebays

1 - FOREBAY A (-)

Forebay Name FOREBAY A

Forebay Id 1000

Forebay Sequence Id 1

Resources

- TEST RESOURCE

Max Time Lag

Downstream Time To FOREBAY B 1

To FOREBAY C 2

2 - FOREBAY B (-)

Forebay Name FOREBAY B

Forebay Id 1001

Forebay Sequence Id 2

Resources

Max Time Lag

Downstream Time To FOREBAY C 1

3 - FOREBAY C (-)

Forebay Name FOREBAY C

Forebay Id 1002

Forebay Sequence Id 3

Resources

Max Time Lag

This is the final forebay in this Cascade Group, no downstream values apply.

Upload Max Time Lag Document*

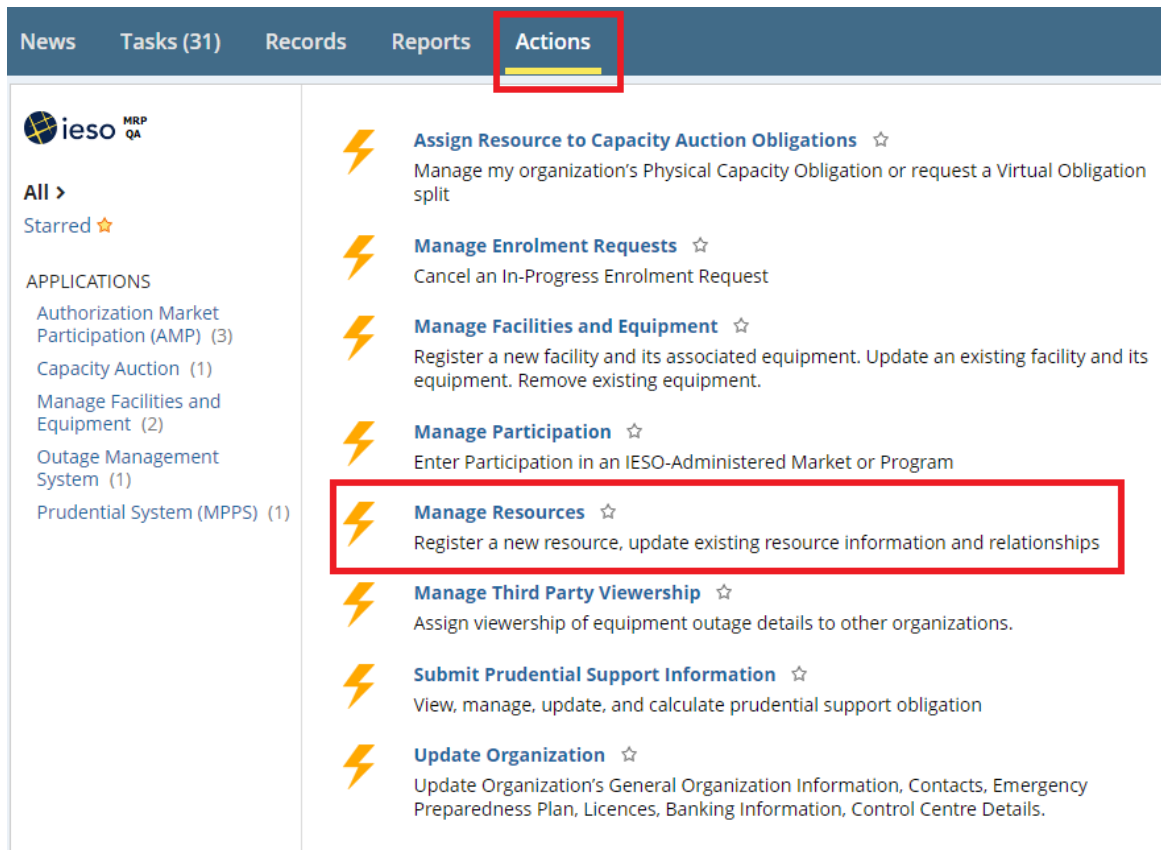
Supporting Document
PDF - 177.68 KB

CANCEL

SUBMIT

Hourly Must Run Flag, Start Indication Value, and Forbidden Regions

1. Log in to [Online IESO](#) and select **Actions** on top of screen. Then select **Manage Resources** from the list of actions.



The screenshot shows the Online IESO interface. The top navigation bar includes 'News', 'Tasks (31)', 'Records', 'Reports', and 'Actions'. The 'Actions' tab is highlighted. On the left, there is a sidebar with the IESO logo and a list of applications: Authorization Market Participation (AMP) (3), Capacity Auction (1), Manage Facilities and Equipment (2), Outage Management System (1), and Prudential System (MPPS) (1). The main content area displays a list of actions, each with a lightning bolt icon and a star icon. The 'Manage Resources' action is highlighted with a red box. The description for 'Manage Resources' is: 'Register a new resource, update existing resource information and relationships'.

2. Select **Manage Energy Resources** and click **Next**.

Manage Resources

Select an Action

- Manage Energy Resources
- Register Compliance Aggregation Model
- Register Pseudo-Unit Resources
- Register Resources for Virtual Capacity Obligations
- Submit Cascade Group Lag Times
- Modify User-Resource Relationships
- Modify Resource Business Roles
- Manage Resource Capacity Commitment
- Cancel In-Flight Request

Make resource a delivery point, switch the resource to non-dispatchable load, self-scheduling generator or intermittent generator, make resource a price responsive load, update resource attributes.

CANCEL

NEXT

3. Select the **Owner Organization** and **Facility**. Provide a brief description of the request in the text box provided and click on **Next**.

Manage Resources

Action

Manage Energy Resources

Make resource a delivery point, switch the resource to non-dispatchable load, self-scheduling generator or intermittent generator, make resource a price responsive load, update resource attributes.

Owner Organization*

ABC Corp

Select which organization owns the equipment associated to the resources you intend on managing

Select a Facility*

TEST FACILITY

Provide a brief summary of your request. Also indicate any related Market Power Mitigation Reference Level / Reference Quantity request ID(s) or indicate that a new Reference Level / Reference Quantity request is required.*

Update registration parameters.

BACK

NEXT

4. Select the resource name listed under the **Existing Resource List**, and click on **Modify Resource**.

Request Information

Request Type Manage Energy Resources

Request Number 9687

Organization ABC Corp

Facility TEST FACILITY

Request Comment Update registration parameters.

Resource List

<input type="checkbox"/>	Resource Name	Resource Type	New or Registered	Action	Connection Point	Review Status
No items available						

EDIT

REMOVE

Existing Resource List

<input type="checkbox"/>	Resource Name	Resource Type	Connection Point
<input checked="" type="checkbox"/>	TEST-R.1	GEN	TESTSITE
<input type="checkbox"/>	TEST-R.2	GEN	TESTSITE

MODIFY RESOURCE

DECOMMISSION

CANCEL

SUBMIT

5. From the Generator Resource Details page, scroll down to the Participant Fields.

Under this section, select **Yes** or **No** for the **Hourly Must Run Flag**. If **Yes** is selected, attach supporting documentation to the request.

If applicable, enter up to eight **Start Indication Values**.

You may also increase the number of **Forbidden Regions** to a maximum of 5. For each new region, enter the lower and upper limits, and upload documentation to support this change.

Indicate an **Effective Date** for the changes in the **Proposed Effective Date** field and click on **Complete**.

Generator Resource Details

Participant Fields

Resource Configuration *
Not Applicable

Operational Compliance Aggregation Election
 Yes
 No

Have you elected for this resource to be modelled as a Pseudo Unit?
 Yes
 No

Does this resource have any generating units that are quick start capable?*
 Yes
 No

Elapsed Time to Dispatch (min)*
1

Elapsed Time to Dispatch Document Uploaded
UPLOAD Drop files here

Period of Steady Operation
0

Hourly Must Run Flag
 Yes
 No

Upload Hourly Must Run Supporting document *
UPLOAD Drop file here

Start Indication Value 1
50

Start Indication Value 2
70

Number of Forbidden Regions
3

Forbidden Region 1 - Lower Limit
0

Forbidden Region 1 - Upper Limit
18

Forbidden Region 2 - Lower Limit
37

Forbidden Region 2 - Upper Limit
55

Forbidden Region 3 - Lower Limit

Forbidden Region 3 - Upper Limit

Upload Forbidden Region Requirement Document
UPLOAD Drop file here

Proposed Effective Date *
07/14/2023

Indicate the date that the resource changes should take effect

Comments

BACK SAVE **COMPLETE**

6. The modified resource will appear under the **Modified Resource List**. Click on **Submit** to complete the resource update request. The IESO will review and approve the changes.

Manage Resources

Request Information

Request Type Manage Energy Resources

Organization ABC Corp

Request Number 9687

Facility TEST FACILITY

Request Comment Update registration parameters.

Modified Resource List

<input checked="" type="checkbox"/>	Resource Name	Resource Type	New or Registered	Action	Connection Point	Review Status
<input checked="" type="checkbox"/>	TEST-R.1	GEN	Registered	Update	TESTSITE	Ready For Review

[EDIT](#) [REMOVE](#)

Existing Resource List

<input type="checkbox"/>	Resource Name	Resource Type	Connection Point
<input type="checkbox"/>	TEST-R.2	GEN	TESTSITE

[MODIFY RESOURCE](#) [DECOMMISSION](#)

[CANCEL](#)

[SUBMIT](#)

Appendix C: Updating a Load Resource to a Price Responsive Load in Online IESO

1. Log in to [Online IESO](#) and select **Actions** on top of screen. Then select **Manage Resources** from the list of actions.

The screenshot shows the Online IESO interface. At the top, there is a navigation bar with tabs for News, Tasks (31), Records, Reports, and Actions. The 'Actions' tab is highlighted with a red box. Below the navigation bar, the 'Manage Resources' option is highlighted with a red box. The left sidebar contains the IESO logo and a list of applications: Authorization Market Participation (AMP) (3), Capacity Auction (1), Manage Facilities and Equipment (2), Outage Management System (1), and Prudential System (MPPS) (1).

2. Select **Manage Energy Resources** and click on **Next**.

Manage Resources

Select an Action

- Manage Energy Resources
- Register Compliance Aggregation Model
- Register Pseudo-Unit Resources
- Register Resources for Virtual Capacity Obligations
- Submit Cascade Group Lag Times
- Modify User-Resource Relationships
- Modify Resource Business Roles
- Manage Resource Capacity Commitment
- Cancel In-Flight Request

Make resource a delivery point, switch the resource to non-dispatchable load, self-scheduling generator or intermittent generator, make resource a price responsive load, update resource attributes.

CANCEL

NEXT

3. Select the **Owner Organization** and **Facility**. Provide a brief description in the text box provided and click on **Next**.

Manage Resources

Action

Manage Energy Resources

Make resource a delivery point, switch the resource to non-dispatchable load, self-scheduling generator or intermittent generator, make resource a price responsive load, update resource attributes.

Owner Organization *

NDL INC.

Select which organization owns the equipment associated to the resources you intend on managing

Select a Facility*

Site A

Provide a brief summary of your request. Also indicate any related Market Power Mitigation Reference Level / Reference Quantity request ID(s) or indicate that a new Reference Level / Reference Quantity request is required.*

Update to PRL

BACK

NEXT

4. Select the appropriate load resource listed from **Existing Resource List** and click on **Modify Resource**.

Request Information

Request Type Manage Energy Resources

Request Number 9689

Organization NDL INC.

Facility NDL CTS

Request Comment Update to PRL

Resource List

<input type="checkbox"/>	Resource Name	Resource Type	New or Registered	Action	Connection Point	Review Status
No items available						

EDIT

REMOVE

Existing Resource List

<input checked="" type="checkbox"/>	Resource Name	Resource Type	Connection Point
<input checked="" type="checkbox"/>	NDL_TEST2023	LOAD	NDLCTS-230.T1

MODIFY RESOURCE

DECOMMISSION

5. From the Load Resource Details page, update the **Bid/Offer Type** option to **Day-Ahead Price Responsive**. Indicate an **Effective Date** for this change in the **Proposed Effective Date** field and click on **Complete**.

A screenshot showing the screen to modify a MP's Existing Resources. A screenshot showing the screen to modify a MP's Existing Resources

Load Resource Details

Facility Name NDL CTS	Resource ID 20000
Resource Name NDL_TEST2023	
Connection Point NDLCTS-230.T1	Operating Reserve Class No Operating Reserve
Bid/Offer Type * Day-Ahead Price Responsive	
<input type="checkbox"/> Electricity Storage Resource Flag	
Metered Market Participant (MMP) * NDL INC.	Maximum Load - Active Power 500
	Registered Market Participant (RMP) * --- Select an Organization ---
CREATE HOURLY DISPATCHABLE DR RESOURCE	
Proposed Effective Date * 10/17/2023	
<small>Indicate the date that the resource changes should take effect</small>	
Comments <div style="border: 1px solid #ccc; height: 40px;"></div>	
BACK	SAVE COMPLETE

6. The modified resource will appear under the **Modified Resource List**. Click on **Submit** to complete the resource update request. The IESO will review and approve the changes.

Manage Resources at NDL CTS

Request Information

Request Type Manage Energy Resources	Request Number 9689
Organization NDL INC.	Facility NDL CTS
Request Comment Update to PRL	

Modified Resource List

<input type="checkbox"/>	Resource Name	Resource Type	New or Registered	Action	Connection Point	Review Status
<input type="checkbox"/>	NDL_TEST2023	LOAD	Registered	Update	NDLCTS-230.T1	Ready For Review

EDIT **REMOVE**

Existing Resource List

<input type="checkbox"/>	Resource Name	Resource Type	Connection Point
No items available			

MODIFY RESOURCE **DECOMMISSION**

CANCEL **SUBMIT**

Appendix D: Using Online IESO to Enter MCE Information

1. Log in to [Online IESO](#) and select **Actions** on top of the screen.

The screenshot shows the 'Actions' menu in the Online IESO interface. The 'Actions' tab is highlighted with a red box. The menu items are:

- Manage Enrolment Requests** ☆
Cancel an In-Progress Enrolment Request
- Manage Participation** ☆
Enter Participation in an IESO-Administered Market or Program
- Manage Resources** ☆
Register a new resource, update existing resource information and relationships
- Update Organization** ☆
Update Organization's General Organization Information, Contacts, Emergency Preparedness Plan, Licences, Banking Information, Control Centre Details.

2. Select **Update Organization**.

The screenshot shows the 'Actions' menu in the Online IESO interface. The 'Update Organization' item is highlighted with a red box. The menu items are:

- Manage Enrolment Requests** ☆
Cancel an In-Progress Enrolment Request
- Manage Participation** ☆
Enter Participation in an IESO-Administered Market or Program
- Manage Resources** ☆
Register a new resource, update existing resource information and relationships
- Update Organization** ☆
Update Organization's General Organization Information, Contacts, Emergency Preparedness Plan, Licences, Banking Information, Control Centre Details.

3. From the **Select 'Update Organization' Request Type** window, select **Manage Market Control Entities** as the request type and select **Next**.

Select 'Update Organization' Request Type


Request Details

Organization ID: 107951

Organization: TEST ORGANIZATION 1

Select Request Type

Select: Manage Market Control Entities


 [Need Help?
http://www.ieso.ca/registration.help/#1.20](http://www.ieso.ca/registration.help/#1.20)

Next

Cancel

4. In the Manage Market Control Entities window, select **Create new Market Control Entities**.



News Tasks Records Reports **Actions**


 SAVE DRAFT

Manage Market Control Entities

Request Number: 121964 Organization ID: 107951
Organization: TEST ORGANIZATION 1

Select Request Type

 Create new Market Control Entities  Update Existing Market Control Entities



5. Select Create MCE.

Manage Market Control Entities

Request Number: 121964

Organization ID: 107951


Organization: TEST ORGANIZATION 1

Request Type: Update Organization - Manage Market Control Entities

Market Control Entity List

Market Control Entity Legal Name	Default Physical Withholding	Status
----------------------------------	------------------------------	--------

No items available

 Create MCE

6. Populate MCE details. If the user selects the checkbox “I am self-identifying (Insert Organization’s Name) as a MCE”, all of the fields will automatically populate.

SAVE DRAFT

Manage Market Control Entities

Request Number: 121964

Organization: TEST ORGANIZATION 1

Organization ID: 107951

Request Type: Update Organization - Manage Market Control Entities

Market Control Entity Details

I am self-identifying TEST ORGANIZATION 1 as a MCE
Selecting this option will automatically populate applicable fields.

<p>* Legal Name <input type="text"/></p> <p>* Mailing Address Line 1 <input type="text"/></p> <p>Mailing Address Line 2 <input type="text"/></p> <p>Mailing Address Line 3 <input type="text"/></p> <p>Mailing Address Line 4 <input type="text"/></p> <p>Mailing City <input type="text"/></p>	<p>* Mailing Country <input type="text" value="Select Country"/></p> <p>Mailing Province/State <input type="text" value="Select Province/State"/></p> <p>* Postal Code <input type="text"/></p> <p>* Is this MCE a Corporation? <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>Country of Incorporation <input type="text" value="Select Country"/></p> <p>Province/State of Incorporation <input type="text" value="Select Province/State"/></p>
---	---

Non-Physical Withholding Relationships

Select the applicable relationships for this Market Control Entity:

<input type="checkbox"/>	Shareholder	Beneficially owns, directly or indirectly, voting securities carrying more than 10 per cent of the voting rights attached to all voting securities of the market participant
<input type="checkbox"/>	Appointer	Directly or indirectly, whether through one or more subsidiaries or otherwise, is able to elect or appoint at least 10 per cent of the directors of the market participant, other than ex officio directors
<input type="checkbox"/>	Partner	Is a partner in or of the market participant
<input type="checkbox"/>	Trustee	Has a substantial beneficial interest in the market participant or that serves as a trustee in the market participant, if the market participant is a trust
<input type="checkbox"/>	Affiliate	Is an affiliate of the market participant, excluding affiliates of the market participant that are controlled by the market participant
<input type="checkbox"/>	Self-identify	Is the market participant (market participant self-identified as MCE)
<input type="checkbox"/>	Beneficial Interest	The market participant associated with the resource is an entity other than a corporation, then its market control entity is the entity or individual that holds, directly or indirectly, whether through one or more subsidiaries or otherwise, an interest in the market participant that entitles the entity or individual to receive more than 10 per cent of the profits of the market participant

You must select at least one Non-Physical Withholding Relationship to continue

BACK DISCARD
COMPLETE

Note: if the MP has registered dispatchable resources, Contractual will also be listed under the “Non-Physical Withholding Relationships” heading. If Contractual has been selected, a question will appear asking “Will this Market Control Entity apply to all resources?” If the user selects **Yes**, then the Market Control Entity will apply to all resources of the MP. If the user selects **No**, the user can identify which resources the MCE applies to.

<input checked="" type="checkbox"/>	Contractual	Has any form of agreement with an entity whereby: (i) The market participant associated with a resource confers the right or ability to determine the resource's energy and operating reserve offers and bids to that entity or the ability to follow the dispatch instructions given to the resource; and (ii) That entity is entitled to receive more than 10 per cent of the amounts paid to the market participant in respect of all energy and operating reserve transacted through the energy and operating reserve markets
-------------------------------------	-------------	---

Will this Market Control Entity apply to all resources?*

Yes

No

Select Associated Resources*

Select A Resource

If the MP has registered dispatchable resources, once the user has selected the applicable Non-Physical Withholding Relationship, the user needs to scroll down and answer if it is a Physical Withholding Market Control Entity. If the user selects **Yes**, then the user must select a relationship as they appear on the screen. If the user selects **Yes** to any of the relationship, that relationship defines the *Market Control Entity for Physical Withholding* and the step is complete. If the user selects **No**, the next relationship appears.

The order of relationships that appear is as follows:

1. Contractual
2. Shareholder
3. Appointer
4. Beneficial Interest
5. Partner
6. Self-Identify

Market Control Entity - Physical Withholding

- Dispatchable Resources require at least one Physical Withholding Market Control Entity
- Other resource types for relevant participation types require at least one Market Control Entity that is not a Physical Withholding Market Control Entity

Is this a Physical Withholding Market Control Entity?*

Yes No

Contractual* <input type="radio"/> Yes <input checked="" type="radio"/> No	If the market participant associated with the resource has any form of agreement with an entity whereby: a. the market participant associated with the resource confers the right or ability to determine the resource's energy and operating reserve offers and bids to that entity; and b. that entity is entitled to receive more than 50 per cent of the amounts paid to the market participant in respect of all energy and operating reserve transacted through the energy and operating reserve markets, then the resource's market control entity is that entity.
Shareholder* <input checked="" type="radio"/> Yes <input type="radio"/> No	2 a. The market participant associated with the resource is a corporation with share capital, then its market control entity is the entity or individual that: i. Ultimately holds, directly or indirectly, whether through one or more subsidiaries or otherwise, otherwise than by way of security only, by or for the benefit of that entity or individual securities of the market participant that are attached to more than 50 per cent of the votes that may be cast to elect directors of the market participant; and ii. The votes attached to those securities are sufficient, if exercised, to elect a majority of the directors of the market participant;

Once all of the information has been populated, select **COMPLETE** to submit.

7. Submit the MCE for IESO review by selecting **SUBMIT FOR REVIEW**. If the IESO rejects the MCE, they will provide a comment to explain the reason for rejection and the MCE task is sent back to the Applicant Representative for resubmission.

[SAVE DRAFT](#)

Manage Market Control Entities

Request Number: 121964 **Organization ID:** 107951
Organization: TEST ORGANIZATION 1 **Request Type:** Update Organization - Manage Market Control Entities

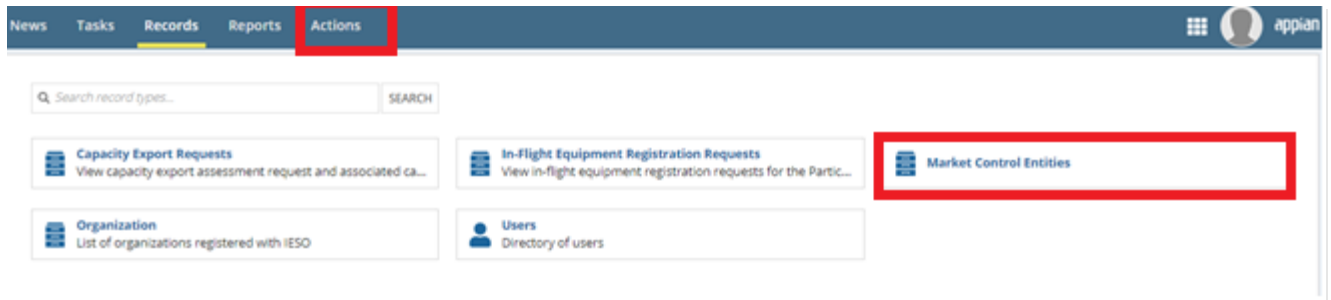
Market Control Entity List

Market Control Entity Legal Name	Default Physical Withholding	Status
TEST ORGANIZATION 1		Ready For Review

[Create MCE](#)

[CANCEL](#) [SUBMIT FOR REVIEW](#)

8. Once the IESO has approved the MCE, the Applicant Representative can view all their approved and registered MCE by accessing the **Records** window and selecting **Market Control Entities**.



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