Energy Market Interface

Submitting, Revising and Cancelling Energy Offers IESO Training June 2024





AN IESO TRAINING PUBLICATION

This training manual has been prepared to assist in the IESO training of market participants and has been compiled from extracts from the market rules or documents posted on the web site of Ontario's Independent Electricity System Operator. Users of this training manual are reminded that they remain responsible for complying with all of their obligations under the market rules and associated policies, standards and procedures relating to the subject matter of this training manual, even if such obligations are not specifically referred to herein. While every effort has been made to ensure the provisions of this training manual are accurate and up to date, users must be aware that the specific provisions of the market rules or particular document shall govern.

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Table of Contents

1.	1. Introduction		3
2.	. Accessing EMI		
3.	Sub	mitting Energy Offers	6
	3.1	Preparing Initial or Standing Energy Offers	6
	3.2	Submitting Energy Offer Information	9
		3.2.1 Submitting Daily, Hourly and Operating Reserve Ramp Rates	12
		3.2.2 Dispatch Data Parameters that are not Applicable	13
	3.3	Entering the Same Offer for Multiple Hours	13
	3.4	Clearing Data from Multiple Hours	16
	3.5	Submitting Your Energy Offer	17
4.	Rev	ising and Cancelling Energy Offers	20
	4.1	Retrieving Your Energy Offer	20
	4.2	Revising Your Energy Offer	23
	4.3	Cancelling Your Energy Offer	25
Re	fere	nces	29
Re	lated	d Documents	30

1. Introduction

The purpose of this guide is to provide detailed instructions on submitting, cancelling, and revising *energy offers* using the energy market interface (EMI).

This guide is mainly aimed at *market participants* who are generators, including virtual generators, in the *physical market*.

Participants in Ontario's *physical markets* use EMI to do the following actions:

- Submit, review and revise *energy* and *operating reserve bids* and *offers*
- Submit, review and revise *energy* and *operating reserve* import *offers* and export *bids*
- Submit, review and revise schedules and forecasts
- Submit, review and revise daily dispatch data
- Submit, review and revise forebay dispatch data
- Receive market messages related to submissions made

2. Accessing EMI

The energy market interface (EMI) is the *market participant* interface with Ontario's *physical markets*. The EMI is used for:

- Participating in the *day-ahead market*, *real-time market* and *operating reserve market*: submitting, reviewing and revising *dispatch data*
- Participating in inter-jurisdictional energy trading: submitting, reviewing and revising import *offers* and export *bids*

Note: To access EMI, a user needs to be assigned to a dispatch data viewer or dispatch data submitter contact role. In order for a dispatch data submitter to submit bids and offers in EMI, an applicant representative of the organization needs to create a user-resource relationship in Online IESO. Additionally, an active gateway account is required.

To access the EMI, complete the following steps:

- 1. Open the EMI URL (<u>https://emi.ieso.ca</u>) or open the IESO Gateway URL (<u>https://gateway.ieso.ca</u>) and navigate to EMI.
- 2. Enter your IESO Gateway Username, Password and click Sign In.

Connecting Today: Howaring Immarced			
Sign In			
Username			
doejohn			
Password			
••••••			
Remember me			
Sign In			
<u>Need help signing in?</u>			

The EMI main page displaying the current **Market Status** will appear (shown below). The **Market Status** display continually updates and displays the current status for each of the physical markets.

Screenshot to be included after WebService update

3. Submitting Energy Offers

There are three types of *offers* in the *day-ahead market* or *real-time market*: initial *offers*, standing *offers*, and revised *offers*.

Dispatchable generators must submit *offers* to the IESO using the EMI in order to supply energy to the IESO-controlled grid. Virtual trading generators looking to participate in the *day-ahead market* must also submit *offers* through the EMI.

Offer submissions must follow the *market rules* regarding *price-quantity pairs*, timing, ramp rates, revisions and cancellations, etc. set out in *Market Rules* (MR) Chapter 7 and *Market Manuals* (MM) 4.1.

See <u>Introduction to Ontario's Physical Markets</u> on the IESO Training web page for more information.

3.1 Preparing Initial or Standing Energy Offers

The following instructions apply to preparing an initial *offer* or a standing *offer* using the EMI. See Section 4, Revising and Cancelling Energy Offers, for information on revising or cancelling a previously submitted *offer*.

For submission timeline information for energy offers, see MM 4.1 s.7.

To submit an initial *offer* (called **Normal** in the EMI) or a standing *offer*, complete the following steps:

1. Select **Real Time Energy Market (RTEM)** under **Markets** from the menu on the left side of the EMI.

Screenshot to be included after WebService update

2. Select the **Bid Type** as either **Normal** or **Standing**.

Real Time Energy Market (RTEM)	
Bid Type : Normal Standing Delivery Date : 2024/03/20 3 Standing Day Type : ALL	Market Participant : Resource Type : Resource Name :

3. If you are submitting a **Normal** *offer*, select the **Delivery Date**. For standing *offers*, this field is not required and is therefore not selectable.

The **Delivery Date** defaults to the current *dispatch day*. If your *offer* is for the next *dispatch day*, click the calendar icon and select the appropriate date from the calendar.

Real Time Energy Market (RTEM)							
Bid Type : Normal Standing Delivery Date : 2024/03/20	•		Market Res	Participa source Ty	ant : pe :		~
Standing Day Type : ALL 🗸	4 Marc	ch ∽	· 2	024 🚔 🕽			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pid/Offer Submission Information	25	26	27	28	29	1	2
	з	4	5	6	7	8	9
Expiry Date : yyyy/mm/dc	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	1	2	3	4	5	6

If you select the **Delivery Date** after having already selected the **Resource Type**, and **Resource Name**, you may have to select the correct **Resource Type** and **Resource Name** again. EMI changes the resource type and resource name lists based on the delivery date.

4. If you are submitting a standing *offer*, select the **Standing Day Type**. If your standing *offer* is for all days of the week, select **ALL**. Otherwise, select the day of the week to which the standing *offer* applies.

Real Time Energy M	arket (RTEM)	
Bid Type : Delivery Date : Standing Day Type :	○ Normal ● yyyy/mm/dd	Standing
Bid/Offer Submission	ALL Monday Tuesday Wednesday Thursday Friday Saturday Sunday	yyyy/mm/dd

If you wish, you may include an **Expiry Date** with a standing *offer*. The **Expiry Date** is the last date the standing *offer* will be valid for.

For example, if you enter an **Expiry Date** of July 28, the last time your standing *offer* will be converted to a normal *offer* is at 6:00 am EPT on July 27 and will be considered effective for the trade day of July 28.

Real Time Ener	gy Market (RTEM)
Bid T Delivery [Standing Day T	ype : O Normal O Standing Date : yyyy/mm/dd
d/Offer Submis	sion Information Expiry Date :) 2024/07/28

5. Click the drop-down next to **Market Participant** to see a list of the *market participants* on whose behalf you are authorized to enter *dispatch data*.

Choose the **Market Participant** for which you wish to enter an *energy offer* then click the dropdown next to **Resource Type** and select either **GENERATOR**, **PSEUDO_UNIT** or **VIRTUAL-GENERATOR**, as required.

Market Participant :	~
Resource Type :	GENERATOR ~
Resource Name :	GENERATOR

6. Click the drop-down next to **Resource Name** and select the facility for which you are submitting an *offer*.

Market Participant :		
Resource Type :	~	
Resource Name :		\checkmark

The **Resource Name** is the unique reference for a facility used when submitting bids and offers. It is also called the *delivery point* and is used as the point of settlement for Ontario's *physical markets*.

7. Proceed to Section 3.2, Submitting Offer Information, to complete the empty *offer* form, or see Section 4.1, Retrieving Your Offer, if you have previously submitted an *offer* and would like to populate the screen with *dispatch data* from that existing *offer*.

3.2 Submitting Energy Offer Information

To enter your *offer* information, complete the following steps, as applicable, to the resource type you are offering on behalf of:

 Enter your Maximum Daily Energy Limit in MWh, up to one (1) decimal place, and select a Maximum Daily Energy Reason Code from the drop-down. A reason code must be provided if maximum daily energy limit is not blank. Refer to MM 4.1 s.2.1.10 for more information.

/	Maximum Daily Energy Limit (MWh) :	Thermal State :
\langle	Maximum Daily Energy Reason Code :	Daily Energy Ramp ID 1 2 3 4 5
		Daily Energy RR(BreakPoint)
		Daily Energy RR(Ramp Up)
		Daily Energy RR(Ramp Down)
	Minimum Daily Energy Limit (MWh) :	

The only way to remove a submitted maximum daily energy limit, is to delete the existing value, leaving the field blank, and making the submission again. Entering a value of zero (0) does not remove the limit. Instead, it indicates that the facility has no energy at all that can be scheduled.

2. Enter your **Minimum Daily Energy Limit** in MWh, up to one (1) decimal place. Refer to MM 4.1 s.2.1.11 for more information.

Maximum Daily Energy Limit (MWh) :	Thermal State : 📉 🗸
Maximum Daily Energy Reason Code:	Daily Energy Ramp ID 1 2 3 4 5 Daily Energy RR(BreakPoint) Image: Constraint of the second sec
	Daily Energy RR(Ramp Up)
	Daily Energy RR(Ramp Down)
Minimum Daily Energy Limit (MWh) :	

3. Select a **Thermal State** from the drop-down. Refer to MM 4.1 s.2.1.19 for more information.

Maximum Daily Energy Limit (MWh) :	Thermal State :
Maximum Daily Energy Reason Code : 📉 🗸	Daily Energy Ramp ID 1 2 3 4 5
	Daily Energy RR(BreakPoint)
	Daily Energy RR(Ramp Up)
	Daily Energy RR(Ramp Down)
Minimum Daily Energy Limit (MWh) :	

4. In the **Daily Energy Ramp ID** section, enter up to 5 daily ramp rate sets. See Section 3.2.1, Submitting Daily, Hourly and Operative Reserve Ramp Rates, to understand the different components of the ramp rates.

Maximum Daily Energy Limit (MWh) :	Thermal State :
Maximum Daily Energy Reason Code : 📃 🗸	Daily Energy Ramp ID 1 2 3 4 5
	Daily Energy RR(BreakPoint)
	Daily Energy RR(Ramp Up)
	Daily Energy RR(Ramp Down)
Minimum Daily Energy Limit (MWh) :	

5. Select **Submit** from the drop-down next to the **Hour** number for the hour that you are submitting an *offer*.



The market software tools use the "hour ending" convention. In other words, Hour 1 is the first hour of the day, which is the hour that starts at midnight and ends at 1:00 am. Hours 10-11 are the hours from 9:00 am to 11:00 am. Hours 1-24 are the hours from midnight one day through midnight the next day. Eastern Standard Time is used year-round.

6. Click the triangle next to the **Hour** number to expand the submission section, enabling you to enter up to 20 *price-quantity pairs* for each hour or click **Expand All** to reveal the submission

Real Time E	nergy Market (RTEM)											
View -	Expand All Collapse A	I Clear Hours	Copy Hours	Detach								
	Submit/Cancel	NERC Tag ID	Tie Point	P/Q Pair ID	1	2	3	4	5	6	7	
▼ Hour 1	~		\sim	~								
					P/Q Pair ID	1	2	3	4	5	6	7
					Price							1
					Quantity							
Hour 2	~		~	~								
\checkmark					P/Q Pair ID	1	2	3	4	5	6	7
					Price							
					Quantity							

section for every hour. Clicking **Collapse All** will hide the submission section for all hours.

If you are submitting on behalf of a virtual trading generator, select a Virtual Transaction

View -	Expa	nd All	Collapse Al	Clear Hours	Copy Hours	De	etach
		Submit/	Cancel	NERC Tag ID	Tie Point	(Virtual Transaction Zonal Trading Entity
⊽ Hour 1			~			\sim	×
							WEST:HUB TORONTO:HUB SOUTHWEST:HUB OTTAWA:HUB
⊳ Hour 2			\checkmark			\sim	NORTHWEST:HUB
⊳ Hour 3			\sim			\sim	NIAGARA:HUB
⊳ Hour 4			~			\sim	ESSA:HUB EAST:HUB

- 7. **Zonal Trading Entity** from the drop-down. Refer to MM 4.1 Appendix E for *virtual zonal resource* and *virtual transaction zone* relationships.
- 8. In the **P/Q Pair ID** section, enter:
 - a. **Price** in dollars and cents, up to two decimal places, for each hourly *offer*. For example, \$10 dollars may be entered as 10.00 or 10.0 or 10.
 - b. **Quantity** in megawatts (MW), up to one decimal place, for each hourly offer.

View -	Expand All C	Collapse Al	I Clear Hours	Сору	Hours	1 D	etach							
	Submit/Car	ncel	NERC Tag ID	Tie F	Point		Virtual Transaction Zonal Trading Entity	P/Q Pair ID	1	2	3	4	5	6
∀ Hour 1	Submit	\sim			\ \	/	~							
							/	P/Q Pair ID	1	2	3	4	5	6
							(Price	-10	-10	25	100	250	
								Quantity	0	60	115	200	205	
												-		

9. Enter **Speed No Load** and **Start Up Offer** (Hot, Warm and Cold) as applicable. Refer to MM 4.1 s.2.1.3 for more information.

View -	Exp	and All	Collapse All	Clear Hours	Copy H	lours	🚮 Detach
View • Ex Speed No Load		Start Up	Offer (Hot)	Start Up Offer (V	Varm)	Start Up	Offer (Cold)

10. Enter **Min Hourly Output** and **Hourly Must Run** as applicable. Refer to MM 4.1 s.2.1.5 and s.2.1.6 for more information.

View	Expand All	Collapse All	Hear Hours Co	py Hours	🚹 Detach
Warm)	Start Up Offer (Co	ld) (Min Hourly O	utput Hourly Must	: Run Reason	Code
					\sim

11. If you are submitting on behalf of a virtual trading generation resource, you may choose to enter a **VG Forecast Quantity**. Refer to MM 4.1 s.2.1.7 for more information.

Vi	ew •	Expand	All	Collapse All	Clear Hours	Co	opy Hours	2 D	etach		
d)	Min Hou	ırly Output	Hourly	Must Run	Reason Code		Other Reason	n (VG Forecast	Quantity	Capacity Transaction Flag
						\sim		`			~

3.2.1 Submitting Daily, Hourly and Operating Reserve Ramp Rates

To enter energy ramp rates for your offers, complete the following steps. Refer to MM 4.1 s.2.1.4 for more information.

1. Enter up to 5 daily ramp rate breakpoints and associated daily ramp up and daily ramp down values starting with the first column.

Daily Energy Ramp ID	1	2	3	4	5
Daily Energy RR(BreakPoint)	20	75			
Daily Energy RR(Ramp Up)	0.3	5			
Daily Energy RR(Ramp Down)	10	10			

2. For an hour that you have entered a *price-quantity pair*, enter up to 5 hourly ramp rate breakpoints and associated ramp up and ramp down values starting with the first column.

All ramp rate values are in MW to one decimal place. Ramp up and down MW are per minute values.

pse All Clear Hours Copy	y Hours		Deta	ch	
Energy Ramp Rate ID	1	2	3	4	5
Energy Ramp Rate ID	1	2	3	4	5
RR(Break Point)	60	205			
RR(Ramp Up)	0.5	0.2			
RR(Ramp Down)	2	1			

For any hour that you have submitted a *price-quantity pair* and your resource type is allowed to submit *operating reserve offers*, you must submit a corresponding **OR Ramp Rate**. Enter the ramp rate as MW per minute, rounded to one decimal place. Refer to MM 4.1 s.3.1.3 for more information.

Vie	w -	Expa	and All	Collapse All	Clear	Hours	C	opy Hour	s	1	etac	h
18	19	20	Energy	Ramp Rate ID		1	2	3	4	5	1	OR Ramp Rate (Mwh)
											V	7

3.2.2 Dispatch Data Parameters that are not Applicable

There are a number of dispatch data parameters that are not applicable to dispatchable generators or virtual generators. The input fields for the following parameters should be left blank:

- NERC Tag ID
- Tie Point
- Capacity Transaction Flag

3.3 Entering the Same Offer for Multiple Hours

An efficient way to copy the information from a chosen hour to other selected hours is to use the **Copy Hours** button. Therefore, if you submit the same hourly *offer* information for multiple hours in a day, complete the steps below.

1. Click **Copy Hours** after completing your *price-quantity pairs* and other *dispatch data* for a single hour.

View •	Expand A	I Collapse A	II Clear Hours	Copy Hours	🚹 Detach								
	Subr	nit/Cancel	NERC Tag ID	Tie Point	Virtual Transaction Zona Trading Entity	P/Q Pair ID	1	2	3	4	5	6	7
		~		~									
						P/Q Pair ID	1	2	3	4	5	6	7
						Price	-10	-10	25	100	250		
						Quantity	0	60	115	200	205		

2. In the drop-down next to **From**, select the hour you wish to copy.



3. Select the hours you wish to copy the *offers* to, or select **All**, then click **Copy Data to Selected Hour(s)**.



4. Confirm your selection then click Yes to proceed.

Confirm Copy Hours	
Hour 1 will be copied to hour	r(s) 2, 3, 4, 5.
Are you sure you wish to cor	ntinue?
	Yes Cancel

The *price-quantity pairs* and other *dispatch data* are copied to the hours selected.

View -	Expand All Collapse Al	I Clear Hours	Copy Hours	2 C	etach						
	Submit/Cancel	NERC Tag ID	Tie Point		Virtual Transaction Zonal Trading Entity	P/Q Pair ID	1	2	3	4	5
	~			\sim	~						
						P/Q Pair ID	1	2	3	4	5
					(Price	-10	-10	25	100	250
						Quantity	0	60	115	200	205
	~			\sim	×	•					
						P/Q Pair ID	1	2	3	4	5
					(Price	-10	-10	25	100	250
						Quantity	0	60	115	200	205
▼ Hour 3	~			\sim	~						
						P/Q Pair ID	1	2	3	4	5
						Price	-10	-10	25	100	250
						Quantity	0	60	115	200	205

3.4 Clearing Data from Multiple Hours

Rather than deleting each *price-quantity pair* and other *dispatch data* for any hour(s) or all hours, you can easily delete all *offers* using the **Clear Hours** button.

1. Click **Clear Hours** to remove all *offer* data for any hour(s) or all hours.

View -	Expand All Collapse A	II Clear Hours	Copy Hours	Detach								
	Submit/Cancel	NERC Tag ID	Tie Point	Virtual Transaction Zonal Trading Entity	P/Q Pair ID	1	2	3	4	5	6	7
∀ Hour 1	~		~	~								
					P/Q Pair ID	1	2	3	4	5	6	7
					Price	-10	-10	25	100	250		
					Quantity	0	60	115	200	205		

2. Select the hours you wish to clear *offers* for, or select **All**, then click **Clear Data from selected Hour(s)**.



3. Click **Yes** to proceed.

Confirm Clear Hours
This operation cannot be undone.
Are you sure you wish to continue?
Yes Cancel

The *price-quantity pairs*, and other *dispatch data*, are cleared from the hours selected.

3.5 Submitting Your Energy Offer

Once you have finished entering your *offer* data you are ready to submit your *offer* to the IESO. Complete the following steps to submit your *offer*:

1. Verify that the *offer* information is correct and complete.

2. Select **Submit** from the drop-down next to the **Hour** number for the hours that you are submitting as part of your *offer*.

View -	Expand All Collapse Al	II Clear Hours	Copy Hours	Detach							
	Submit/Cancel	NERC Tag ID	Tie Point	Virtual Transaction Zonal Trading Entity	P/Q Pair ID	1	2	3	4	5	6
∀ Hour 1	Submit 🗸		~	~							
					P/Q Pair ID	1	2	3	4	5	6
					Price	-10	-10	25	100	250	
					Quantity	0	60	115	200	205	

3. Otherwise, you may see the following error message when attempting to submit your *offer* to the IESO:



4. Click **Submit** to send your *offer* to the IESO.

Real Ti	me Energy Market (RTEM)			
Stand	Bid Type : Normal Standing Nelivery Date : 2024/03/20 ng Day Type : ALL	5	Market Participant : Resource Type : Resource Name :	Load Data Submit

5. You will receive a pop-up within a few moments of submitting your *offer*, displaying the status of your *offer*. Review the **Submission Result** screen to ensure that your *offers* for all hours have been successfully updated and applied. Please note that while not applicable to **Normal** *offers*, **Standing Day Type** will return **ALL** in the output file due to default settings.

File -							
Market Participant :							
Resource Name :							
Bid/Offer Type :	Normal						
Standing Day Type :	ALL						
Update Transaction ID :	4IVBP7uc						
Cancel Transaction ID :							
		Severity	Hour	Action	Code	Description	
		INFO		Update	PMPROC_I_SUBMIT-SUCCESS	Successfully processed the RTEM submission.	
				Export to	Excel		

6. Click **Export to Excel** to produce a spreadsheet of the **Submission Result** screen, or take a screen print for your records and/or record the **Update Transaction ID** number. The **Submission Result** screen cannot be retrieved again.

A sample Excel export is included below:

Market Participant :						
Resource Name :						
Bid/Offer Type :	Normal					
Standing Day Type :	ALL					
Update Transaction ID :	4IVBP7uc					
Cancel Transaction ID :						
		Severity	Hour	Action	Code	Description
		INFO		Update	PMPROC_I_SUBMIT-SUCCESS	Successfully processed the RTEM submission.

4. Revising and Cancelling Energy Offers

Initial *offers* may be revised provided the changes follow the rules for revised *offers*. See *Market Rules* Chapter 7 and *Market Manual* 4.1 for more information regarding submitting revised *offers* or cancelling *offers*.

Keep in mind that if you have an *operating reserve offer* associated with your *energy offer*, you must cancel the *operating reserve offer* before the system will allow you to cancel your *energy offer*.

4.1 Retrieving Your Energy Offer

The easiest way to revise or cancel your *offers* is to first retrieve the *offers*. To retrieve your *offers*, complete the following steps:

1. Select **Real Time Energy Market (RTEM)** under **Markets** from the menu on the left side of the EMI.

Screenshot to be included after removal of Bilateral

2. Select the **Bid Type** of the *offer* you wish to retrieve.

Real Time Energy Market (RTEM)	
Bid Type : Normal Standing Delivery Date : 2024/03/20 Standing Standing Day Type : ALL	Market Participant : Resource Type : Resource Name :

3. If you are submitting a **Normal** *offer*, select the **Delivery Date** of the *offer* you wish to retrieve. For standing *offers*, this field is not required and is therefore not selectable.

Real Time Energy Market (RTEM)							
Bid Type : Normal Standing			Market	Participa	int :		~
Delivery Date : 2024/03/20	9		Res	source ly	pe :		_
Standing Day Type : ALL V March V 2024 🕏 🕨							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
d/Offer Submission Information	25	26	27	28	29	1	2
	3	4	5	6	7	8	9
Expiry Date : yyyy/mm/dc	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
			-	-		-	-

If you select the **Delivery Date** after having already selected the **Resource Type**, and **Resource Name**, you may have to select the correct **Resource Type** and **Resource Name** again. EMI changes the resource type and resource name lists based on the delivery date.

4. If you are retrieving a standing *offer*, select the **Standing Day Type**. If your standing *offer* is for all days of the week, select **ALL**. Otherwise, select the appropriate day of the week to which the standing *offer* applies.

Real Time Energy M	arket (RTEM)	
Bid Type : Delivery Date : Standing Day Type :	○ Normal yyyy/mm/dd	Standing
Bid/Offer Submission	ALL Monday Tuesday Wednesday Thursday Friday Saturday Sunday	уууу/mm/dd

Note that if you have previously retrieved data for another resource on this screen, you will need to clear the **Expiry Date** field or input the matching **Expiry Date** for the resource you are retrieving data for.

Real Time Energy Market (RTEM)	_					
Bid Type : ONormal Standing	Marke Re:					
Standing Day Type : ALL	Res					
Bid/Offer Submission Information						
Expiry Date : yyyy/mm/dd						

5. Click the drop-down next to **Market Participant** to see a list of the *market participants* on whose behalf you are authorized to enter *dispatch data*.

Choose the **Market Participant** for which you wish to retrieve an energy *offer* then click the dropdown next to **Resource Type** and select either **GENERATOR**, **PSEUDO_UNIT** or **VIRTUAL-GENERATOR**, as required.

Market Participant :	~
Resource Type :	GENERATOR 🗸
Resource Name :	GENERATOR

6. Click the drop-down next to **Resource Name** and select the facility for which you are retrieving an *offer*.

Market Participant :	~	
Resource Type :	~	
Resource Name :		\checkmark

7. Click **Load Data** to populate the screen with the data from the *offer* you are retrieving.

Real Time Energy Market (RTEM)				
Bid Type : Normal Standing Day Type : ALL	tanding	Market Participant : Resource Type : Resource Name :	~	Load Data Submit

4.2 Revising Your Energy Offer

Once you have retrieved your *offer*, you can revise the data as necessary. Below is an example of what you will see after clicking **Load Data** to retrieve your *offer*.

Click **Expand All** to see the submission section for every hour. Alternatively, click the triangle next to the **Hour** number to expand any individual hours.

Real Time	Real Time Energy Market (RTEM)																						
Bid/Offer Su	d/Offer Submission Information																						
	Expiry Date	: yyyy/mm/dd	Ē.	Maximum I	Daily Energy Lir	nit (MWI	h) :							Th	nermal s	State :		~					
Maximum Daily Energy Reason Code : 🔍														Da Da Da	aily Ene aily Ene aily Ene aily Ene	rgy Rai rgy RRi rgy RRi rgy RRi	mp ID (BreakP (Ramp I (Ramp I	oint) Jp) Down)	1 20 0.3 10	2 75 5 10	3	4	5
View -	View + Expand All Collapse All Clear Hours Copy Hours I Clear Hours Copy Hours																						
	Submit/Cancel	NERC Tag ID	Tie Point	Virtual Transaction Zona Trading Entity	P/Q Pair ID	1	2	3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Hour 1	~		~	~																			
> Hour 2	~		~	~																			
⊳ Hour 3	~		~	~																			
⊳ Hour 4	~		~	~																			
⊳ Hour 5	~		~	~																			
⊳ Hour 6	~		~	~																			
> Hour 7	~		\sim	~																			
⊳ Hour 8	×		~	~																			

To revise your *offer*, follow these steps:

- 1. Ensure the **Delivery Date** represents the *dispatch day* of the *offer* you wish to revise.
- 2. Select **Submit** from the drop-down next to the hour number for the hours that you are revising.

View •	Expand All Collapse A	II Clear Hours	Copy Hours	D 🎦	etach							
	Submit/Cancel	NERC Tag ID	Tie Point		Virtual Transaction Zonal Trading Entity	P/Q Pair ID	1	2	3	4	5	6
▼ Hour 1	Submit 🗸			\sim	~							
						P/Q Pair ID	1	2	3	4	5	6
						Price	-10	-10	25	100	250	
						Quantity	0	60	115	200	205	

If you wish to revise a portion of your *offer* and cancel a portion of your *offer*, you can do so in the same submission. Simply select **Cancel** for those hours that you are cancelling and follow the steps outlined in Section 4.3, Cancelling Your Offer.

- 3. Edit the *price-quantity pairs* and other *dispatch data* as required.
- 4. Select the appropriate **Reason Code** from the drop-down.

Min Hourly Output	Hourly Must Run	Reason Code	Other Reason	VG Forecast Qua
		FO-ST LRPO MPM-EORLI WITHDRAW OTHER ERPO FD FO		

The following table defines the various reason codes available.

Table 1	Reason	Codes	for	Revisina	Offers ¹
TUDIC I	Reason	Coucs	101	Revising	Uncis

Reason Code	Description
FO	Forced Outage
FD	Forced Derating
FO-ST	Forced Outage on Steam Turbine of Pseudo-unit
ERPO	Early Return from Planned Outage
LRPO	Late Return from Planned Outage
MPM-EORLI	Market Power Mitigation Energy Offer Reference Level Increase
WITHDRAW	Withdrawal from a commitment for equipment issues and failure
OTHER	Complete the Other Reason field

Submitting, Revising and Cancelling Energy Offers, 28/June/2024 | Public

¹ Refer to MM 4.1 Appendix B for the conditions under which a reason code is required, and additional information and requirements for each condition.

If you select **OTHER**, you must also complete the **Other Reason** field. This is a free text field which allows you to enter a reason in your own words using up to 128 characters.

- 5. Repeat this process for each hour requiring a reason.
- 6. Click **Submit** to send your revised *offer* to the IESO.

Real Time Energy Market (RTEM)				
Bid Type : Normal O Standing Delivery Date : 2024/03/20 Standing Day Type : ALL	₿ <mark>0</mark>	Market Participant : Resource Type : Resource Name :]	Load Data Submit

7. You will receive a pop-up within a few moments of submitting your revised offer, displaying the status of your offer. Review the **Submission Result** screen to ensure that your offers for all hours have been successfully updated and applied. Please note that while not applicable to **Normal** *offers*, **Standing Day Type** will return **ALL** in the output file due to default settings.

File •							
Market Participant :							
Resource Name :							
Bid/Offer Type :	Normal						
Standing Day Type :	ALL						
Update Transaction ID :	4ZzBP7qS						
Cancel Transaction ID :							
		Severity	Hour	Action	Code	Description	
		INFO		Update	PMPROC_I_SUBMIT-SUCCESS	Successfully processed the RTEM submission.	

 Click Export to Excel to produce a spreadsheet of the Submission Result screen, or take a screen print for your records and/or record the Update Transaction ID number. The Submission Result screen cannot be retrieved again.

A sample Excel export is included below:

Market Participant :						
Resource Name :						
Bid/Offer Type :	Normal					
Standing Day Type :	ALL					
Update Transaction ID :	4ZzBP7qS					
Cancel Transaction ID :						
		Severity	Hour	Action	Code	Description
		INFO		Update	PMPROC_I_SUBMIT-SUCCESS	Successfully processed the RTEM submission.

9. Review your day-ahead, pre-dispatch and 5-minute reports, as applicable, to see which of your *offers* have been scheduled.

4.3 Cancelling Your Energy Offer

Submitting, Revising and Cancelling Energy Offers, 28/June/2024 | Public

Once you have retrieved your *offer*, you can cancel the data as necessary. Below is an example of what you will see after clicking **Load Data** to retrieve your *offer*.

Click **Expand All** to see the *price-quantity pairs* and other *dispatch data* for every hour. Alternatively, click the triangle next to the **Hour** number to expand any individual hours.

Real Time	e Energy Market (RTEM)																						
Bid/Offer S	ubmission Information																						
	Expiry Date	yyyy/mm/dd	Ē	Maximum I	Daily Energy Lin	nit (MW	'h) :							т	hermal	State :		~					
				Maximum I	Daily Energy Re	ason Co	ode:	~						D D D D	aily Ene aily Ene aily Ene aily Ene	rgy Ra rgy RR rgy RR rgy RR	mp ID (BreakP (Ramp (Ramp	'oint) Up) Down)	1 20 0.3 10	2 75 5 10	3	4	5
				Minimum E	aily Energy Lim	nit (MWI	h) :																
View -	View - Expand All Collapse All Clear Hours Copy Hours Detach																						
	Submit/Cancel	NERC Tag ID	Tie Point	Virtual Transaction Zona Trading Entity	P/Q Pair ID	1	2	3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Hour 1	~		~	~																			
> Hour 2	~		\sim	~																			
> Hour 3	~		\sim	~																			
> Hour 4	~		\sim	~																			
> Hour 5	~		\sim	~																			
> Hour 6	~		~	~																			
> Hour 7	~		\sim	~																			
⊳ Hour 8	~		~	~																			

To cancel your *offer*, follow these steps:

- 1. Ensure the **Delivery Date** represents the date of the *offer* you wish to cancel.
- Select **Cancel** from the drop-down next to the hour number for the hours that you are cancelling. Use **Copy Hours** after selecting **Cancel** for one hour to copy that selection for every hour if you plan to cancel the entire *offer*.

View -	Expand All Collapse A	II Clear Hours	Copy Hours	🛃 D	etach								
	Submit/Cancel	NERC Tag ID	Tie Point		Virtual Transaction Zonal Trading Entity	P/Q Pair ID	1	2	3	4	5	6	7
▼ Hour 1	Cancel 🗸			\sim	~								
						P/Q Pair ID	1	2	3	4	5	6	7
						Price	-10	-10	25	100	250		
						Quantity	0	60	115	200	205		
∀ Hour 2	Cancel 🗸			\sim	\sim								
						P/Q Pair ID	1	2	3	4	5	6	7
						Price	-10	-10	25	100	250		
						Quantity	0	60	115	200	205		

If you wish to revise a portion of your *offer* and cancel a portion of your *offer*, you can do so in the same submission. Simply select **Submit** for those hours that you are revising and follow the steps outlined in Section 4.2, Revising Your Offer.

3. Select the appropriate **Reason Code** using the drop-down. The following reason code, MPM-EORLI, is not valid for cancellations, only for revisions.

Min Hourly Output	Hourly Must Run	Reason Code	Other Reason	VG Forecast
		~		
		FO-ST LRPO MPM-EORLI- WITHDRAW OTHER ERPO FD FO		

The following table defines the various reason codes available.

Table 2 | Reason Codes for Cancelling Offers²

Reason Code	Description
FO	Forced Outage
FD	Forced Derating
FO-ST	Forced Outage on Steam Turbine of Pseudo-unit
ERPO	Early Return from Planned Outage
LRPO	Late Return from Planned Outage
WITHDRAW	Withdrawal from a commitment for equipment issues and failure
OTHER	Complete the Other Reason field

If you select **OTHER**, you must also complete the **Other Reason** field. This is a free text field which allows you to type in the reason in your own words using up to 128 characters.

4. Repeat this process for each hour requiring a reason.

Submitting, Revising and Cancelling Energy Offers, 28/June/2024 | Public

² Refer to MM 4.1 Appendix B for the conditions under which a reason code is required, and additional information and requirements for each condition.

5. Click **Submit** to send your cancelled offer to the IESO.

Real Time Energy Market (RTEM)			
Bid Type : Normal Standing Delivery Date : 2024/03/20 Standing Day Type : ALL	₫ <mark>0</mark>	Market Participant : Resource Type : Resource Name :	Load Data Submit

6. You will receive a pop-up within a few moments of submitting your cancelled *offer* displaying the status of your *offer*. Review the **Submission Result** screen to ensure that your *offers* for all applicable hours have been successfully cancelled. Please note that while not applicable to **Normal** *offers*, **Standing Day Type** will return **ALL** in the output file due to default settings.

File -							
File *							
Market Participant :							
Resource Name :							
Bid/Offer Type :	Normal						
Standing Day Type :	ALL						
Update Transaction ID :							
Cancel Transaction ID :	4wbBP7qp						
		Severity	Hour	Action	Code	Description	
		INFO		Cancel	PMPROC_I_CANCEL-SUCCESS	Successfully processed the RTEM cancellation.	
					e a l		

 Click Export to Excel to produce a spreadsheet of the Submission Result screen, or take a screen print for your records and/or record the Cancel Transaction ID number. The Submission Result screen cannot be retrieved again.

A sample Excel export is included below:

Market Participant :						
Resource Name :						
Bid/Offer Type :	Normal					
Standing Day Type :	ALL					
Update Transaction ID :						
Cancel Transaction ID :	4wbBP7qp					
		Severity	Hour	Action	Code	Description
		INFO		Cancel	PMPROC_I_CANCEL-SUCCESS	Successfully processed the RTEM cancellation.

8. Review your day-ahead, pre-dispatch and 5-minute reports, as applicable, to see which of your *offers* have been scheduled.



Document Title	Document ID
Introduction to Ontario's Physical Markets	
Market Rules Chapter 7 System Operations and Physical Markets	MDP_RUL_0002_07
Market Manual 4: Market Operations, Part 4.1: Submitting Dispatch Data in the Physical Markets	MDP_PRO_0027

Related Documents

Document Title	Document ID
Energy Market Interface - Submitting, Revising and Cancelling Energy Bids	
Energy Market Interface - Submitting, Revising and Cancelling Import Offers and Export Bids	
Energy Market Interface - Submitting, Revising and Cancelling Schedules and Forecasts	
Energy Market Interface - Submitting, Revising and Cancelling Operating Reserve Offers	
Energy Market Interface — Submitting and Revising Daily Dispatch Data	
Energy Market Interface — Submitting and Revising Forebay Dispatch Data	

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