



# Participant Guide to Submitting TOD

Version 1.1

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This document is only intended as a guide to assist participants in understanding the TOD process as set out in the Trading and Settlement Code (TSC). It is not, and is not meant to be, a comprehensive description of the TSC and/or a substitute for the detailed provisions of the TSC (including the Agreed Procedures).

Prior to taking business decisions, participants are advised to seek separate and independent opinion in relation to the matters covered by this guide and should not rely solely upon data and information contained herein.

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## Table of Contents

1	WHAT IS TECHNICAL OFFER DATA? .....	2
2	HOW DO I SUBMIT NEW GENERATOR TECHNICAL OFFER DATA? .....	3
3	HOW DO I SUBMIT NEW DEMAND TECHNICAL OFFER DATA? .....	9
4	HOW DO I AMEND EXISTING TECHNICAL OFFER DATA? .....	12
5	HOW DO I SELECT APPROVED GENERATOR AND DEMAND SIDE UNIT TECHNICAL OFFER DATA SETS? .....	14
6	TECHNICAL OFFER DATA PARAMETERS .....	16

## 1 WHAT IS TECHNICAL OFFER DATA?

Technical Offer Data (TOD) is data submitted by a Participant that describes the technical capabilities and limits of generators and demand side units.

During the registration process Participants are asked to submit their new TOD via the Market Participant Interface (MPI) which will be approved by the relevant System Operator (EirGrid or SONI) within 10 working days. When submitting TOD as part of the registration process Participants are asked to notify the Market Operator via email address [balancingmarketregistration@sem-o.com](mailto:balancingmarketregistration@sem-o.com).

If a Participant wishes to amend existing Validated Technical Offer Data (VTOD) they must amend the VTOD set via the Market Participant Interface (MPI). When amending and/or adding a VTOD set please notify the Market Operator in advance of the submission via email address [TradingOperations@sem-o.com](mailto:TradingOperations@sem-o.com).

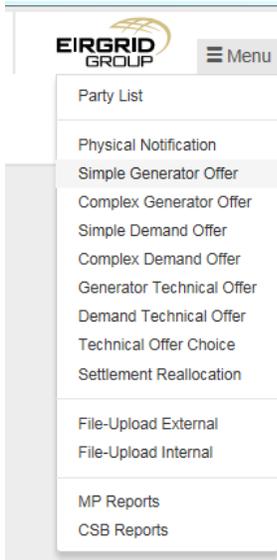
The System Operator will then have 10 working days to either approve or reject the amended VTOD set and advise the Market Participant as appropriate.

The VTOD amendment process is governed by the Trading and Settlement Code and Agreed Procedure 4 which details the specific procedures relating to 'Transaction Submission and Validation' processes to which Parties to the Trading and Settlement Code (TSC) must comply.

## 2 HOW DO I SUBMIT NEW GENERATOR TECHNICAL OFFER DATA?

Log into MPI Homepage (<https://mms.sem-o.com/mpi>), select the appropriate cert and follow the below steps:

- Select the **'Menu'** dropdown in right hand corner of the screen
- Select the **'Generator Technical Offer'** option



This will present the **'Generator Technical Offer Data'** screen below:

### GENERATOR TECHNICAL OFFER DATA

Submit Date \*

Participant Name \*

Resource Name \*

Set Number \* 1 2 3 4 5 6

Status NON\_APPROVE

External Identifier

Query Save Reset ↓

#### Block Loading Details

Flag	Hot	Warm	Cold
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

#### Cooling Boundary Details

Hot	Warm	Cold
<input type="text"/>	<input type="text"/>	<input type="text"/>

#### Start Up Details

Hot	Warm	Cold
<input type="text"/>	<input type="text"/>	<input type="text"/>

#### De Loading Details

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="button" value="x"/>
2	<input type="text"/>	<input type="text"/>	<input type="button" value="x"/>

#### Dwell Down Times

#	Time	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Dwell Up Times

#	Time	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Load Up Hot Times

#	Rate	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Load Up Warm Times

#	Rate	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Load Up Cold Times

#	Rate	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Max Ramp Rate Details

Up

Down

#### Ramp Rate Up Details

#	Rate	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Ramp Rate Down Details

#	Rate	Quantity	
	<input type="text"/>	<input type="text"/>	<input type="button" value="+"/>

#### Soak Hot Details

#	Time	Quantity	+

#### Soak Warm Details

#	Time	Quantity	+

#### Soak Cold Details

#	Time	Quantity	+

#### On Off Times

Minimum On Time	Minimum Off Time	Maximum On Time
<input type="text"/>	<input type="text"/>	<input type="text"/>

#### Restricted Regions Details

#	Start	End	+

#### Pump Storage Details

Storage Cycle Efficiency	Load Capacity	Off to Generating	Off to Spin Pump	Spin Pump to Pumping
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

#### Short Term Maximization & Stable Generation

Short Term Maximum Quantity	Short Term Maximum Time	Minimum Stable Generation Quantity
<input type="text"/>	<input type="text"/>	<input type="text"/>

Enter the following details:

**Submit Date:** Trading Day

**Participant Name:** Enter PT\_ID

**Resource Name:** Enter the Generator Unit ID (GU\_ID)

**Set Number:** Select the set number you want to submit

**Status:** NON\_APPROVED

**External Identifier:** (optional)

Submit Date *	Participant Name *	Resource Name *	Set Number *	Status	External Identifier	
<input type="text"/>	<input type="text" value="() Start Typing ..."/>	<input type="text"/>	<input type="text" value="1 2 3 4 5 6"/>	<input type="text" value="NON_APPROVE"/>	<input type="text"/>	<input type="button" value="Query"/> <input type="button" value="Save"/> <input type="button" value="Reset"/> <input type="button" value=""/>

If Block Loading is applicable for the GU\_ID, check the 'Block Loading Flag' check Box to enable the 'Hot, Warm & Cold' fields.

### Block Loading Details

Flag	Hot *	Warm *	Cold *
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

For each section that has an add button you must add the maximum number of fields and enter data in each field. Click the Add button until all the maximum additional fields are added. See below example:



The image shows two screenshots of a web form titled "Dwell Down Times". The left screenshot shows the form with a single row and a green "+" button to add more rows. The right screenshot shows the form with three rows, each with a red-bordered input field for "Time" and "Quantity", and a green "x" button to remove the row.

#	Time	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="button" value="x"/>
2	<input type="text"/>	<input type="text"/>	<input type="button" value="x"/>
3	<input type="text"/>	<input type="text"/>	<input type="button" value="x"/>

Please see next page for full screen with maximum no. of boxes added.

The table should show as below (with maximum no. of boxes added):

#### Block Loading Details

Flag  Hot\*  Warm\*  Cold\*

#### Cooling Boundary Details

Hot  Warm  Cold

#### Start Up Details

Hot  Warm  Cold

#### De Loading Details

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Dwell Down Times

#	Time	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Dwell Up Times

#	Time	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Load Up Hot Times

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Load Up Warm Times

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Load Up Cold Times

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Max Ramp Rate Details

Up

Down

#### Ramp Rate Up Details

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Ramp Rate Down Details

#	Rate	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Soak Hot Details

#	Time	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Soak Warm Details

#	Time	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### Soak Cold Details

#	Time	Quantity	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

#### On Off Times

Minimum On Time  Minimum Off Time  Maximum On Time

#### Restricted Regions Details

#	Start	End	
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

**Pump Storage Details**

Storage Cycle Efficiency  Load Capacity  Off to Generating  Off to Spin Pump  Spin Pump to Pumping

**Short Term Maximization & Stable Generation**

Short Term Maximum Quantity  Short Term Maximum Time  Minimum Stable Generation Quantity

When all fields have been updated the VTOD can be submitted.

This requires your certificate and password.

Please choose a certificate and its password to submit! To choose a certificate click the settings button at bottom right corner.

Select **'Settings'** on the bottom right of the screen.

7 Market Status ▲ Party Messages ▲ Help ⓘ Log out ↻ **Settings ⚙**

Browse to a saved copy of your digital certificate, enter the appropriate password and click **'Close.'**

**Settings** [X]

Security Act As

Select Certificate:

Enter Certificate Password:

If you have selected a valid cert and correct password, the **Submit** button under the VTOD set will now be enabled and you can submit your VTOD set.

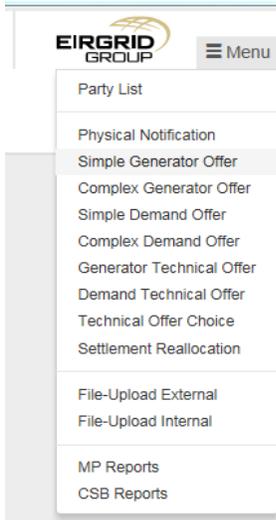
This will populate a confirmation message which can be seen below:

Messages (1)		
#	Type	Message
1	information	Successfully processed the Generator Technical Offer.

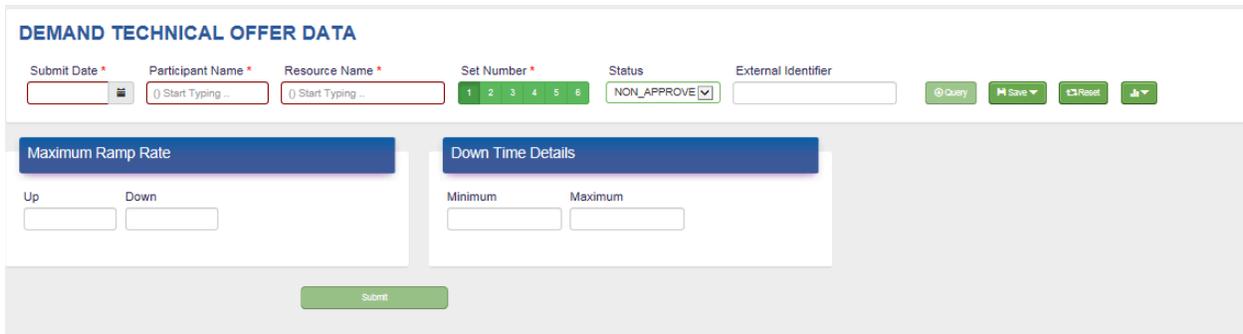
### 3 HOW DO I SUBMIT NEW DEMAND TECHNICAL OFFER DATA?

Log into MPI Homepage (<https://mms.sem-o.com/mpi>), select the appropriate cert and follow the below steps:

- Select the **'Menu'** dropdown in right hand corner of the screen
- Select the **'Demand Technical Offer'** option



This will present the **'Demand Technical Offer Data'** screen below:



The screenshot shows the 'DEMAND TECHNICAL OFFER DATA' form. It includes fields for Submit Date, Participant Name, Resource Name, Set Number, Status, and External Identifier. There are also sections for Maximum Ramp Rate (Up and Down) and Down Time Details (Minimum and Maximum). A 'Submit' button is at the bottom.

Enter the following:

**Submit Date:** Trading Day

**Participant Name:** Enter PT ID

**Resource Name:** Enter the DSU Unit ID (DSU\_ID)

**Set Number:** Select the set that you wanting to submit

**Status:** **NON\_APPROVED**

**External Identifier:** (optional)



The screenshot shows the 'DEMAND TECHNICAL OFFER DATA' form with the following values entered: Submit Date (empty), Participant Name (Start Typing...), Resource Name (|), Set Number (1, 2, 3, 4, 5, 6), Status (NON\_APPROVED), and External Identifier (empty). The 'Submit' button is visible at the bottom.

The below sections must be completed in full:



The screenshot shows two side-by-side form sections. The left section, titled "Maximum Ramp Rate", has two input fields: "Up" with the value "0.13" and "Down" with the value "0.13". The right section, titled "Down Time Details", has two input fields: "Minimum" with the value "0.5" and "Maximum" with the value "4" and a clear button (X). A green "Submit" button is centered below these sections.

When all the fields have been updated the VTOD can be submitted.

This requires your certificate and password.

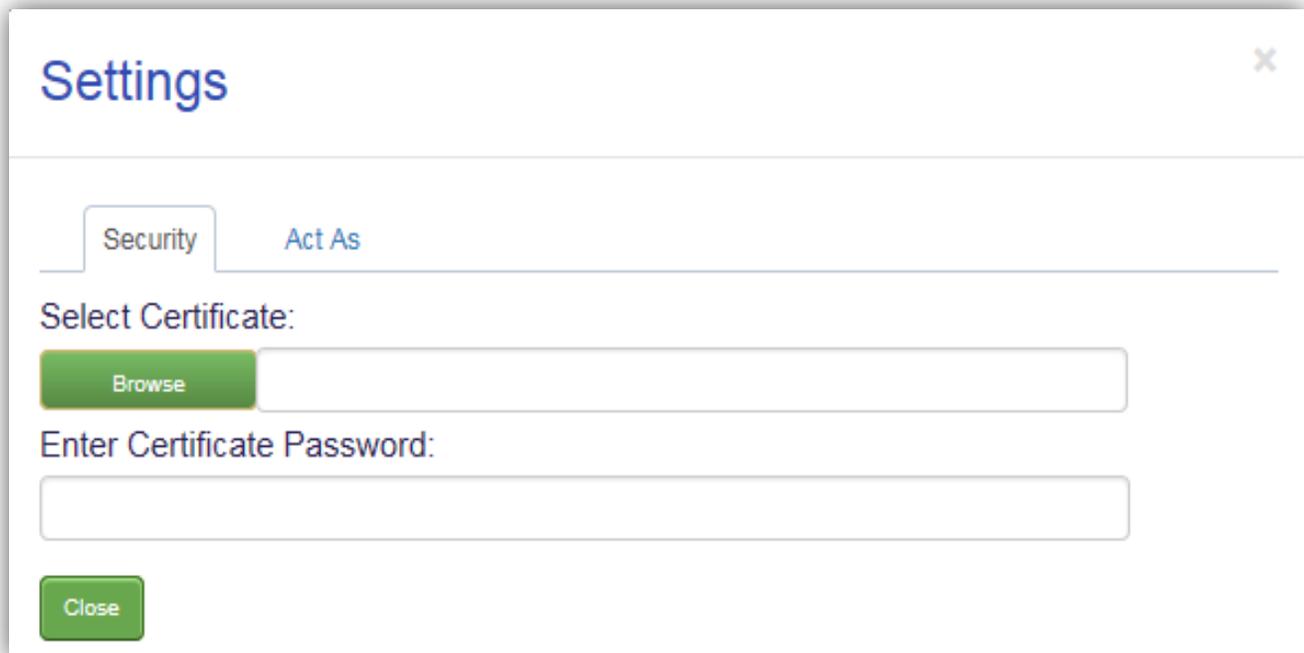
Please choose a certificate and its password to submit! To choose a certificate click the settings button at bottom right corner.

Select **'Settings'** on the bottom right of the screen.



The screenshot shows a horizontal navigation bar with several buttons: a button with the number "7", "Market Status" with an upward arrow, "Party Messages" with an upward arrow, "Help" with a question mark icon, "Log out" with a rightward arrow, and "Settings" with a gear icon and a dashed border.

Browse to a saved copy of your digital certificate, enter the appropriate password and click **'Close.'**



The screenshot shows a "Settings" dialog box with a close button (X) in the top right corner. It has two tabs: "Security" (selected) and "Act As". Under the "Security" tab, there is a "Select Certificate:" label, a green "Browse" button, and a text input field. Below that is an "Enter Certificate Password:" label and another text input field. At the bottom left is a green "Close" button.

If you have selected a valid cert and correct password, the **'Submit'** button under the VTOD set will now be enabled and you can submit your VTOD set.

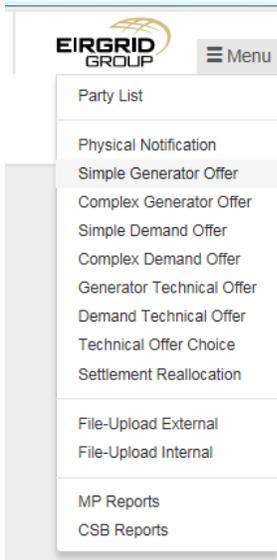
This will populate a confirmation message which can be seen below:

Messages (1)		
#	Type	Message
1	information	Successfully processed the Generator Technical Offer.

## 4 HOW DO I AMEND EXISTING TECHNICAL OFFER DATA?

Log into MPI Homepage (<https://mms.sem-o.com/mpi>), select the appropriate cert and follow the below steps:

- Select the **'Menu'** dropdown in right hand corner of the screen
- Select the **'Demand or Generator Technical Offer'** option



This will present the **'Demand or Generator Technical Offer Data'** screens (screenshots provided previously).

Enter the following:

**Submit Date:** Trading Day

**Participant Name:** Enter PT ID

**Resource Name:** Enter the DSU Unit ID (DSU\_ID) or GU Unit ID (GU\_ID)

**Set Number:** Select the set that you want to update

**Status:** APPROVED

**External Identifier:** (optional)

Click Query

This should successfully retrieve the VTOD set for the GU\_ID or DSU\_ID in question:

Messages (1)		
#	Type	Message
1	information	Successfully retrieved the Generator Technical Offer.

You can then proceed to amend the relevant VTOD values that require update, and when set is ready, click **Submit** (which is enabled by selecting your digital certificate and password under Settings).

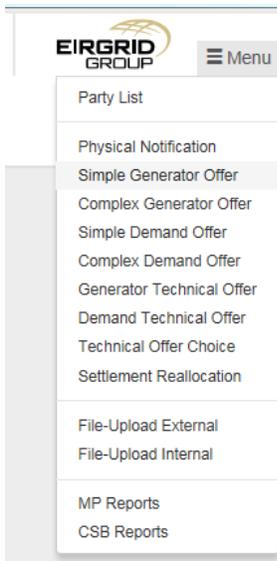
This will populate a confirmation message which can be seen below:

Messages (1)		
#	Type	Message
1	information	Successfully processed the Generator Technical Offer.

## 5 HOW DO I SELECT APPROVED GENERATOR AND DEMAND SIDE UNIT TECHNICAL OFFER DATA SETS?

Log into MPI Homepage (<https://mms.sem-o.com/mpl>), select appropriate cert and follow below steps:

- Select the **'Menu'** dropdown in right hand corner of the screen
- Select the **'Technical Offer Choice'** option



This will present the **'Technical Offer Choice'** screen below:

### TECHNICAL OFFER CHOICE

Trade Date \*  Participant Name \*  Resource Name \*

#### Choice List

#	Resource Name *	Set Number *	Identifier
No of Records - 0			

Select 'Trade Date', 'Participant Name', 'Resource Name' and click 'Query'

### TECHNICAL OFFER CHOICE

Trade Date \*

Participant Name \*

Resource Name \*

Query
Save
Reset
+

The screen will populate with the Validation Technical Offer Data Set Number selected for that Trade Date. If no selection has been made for the Trade Date, the Default Validation Technical Offer Data Set will automatically be populated.

Select the **Plus** button

Choice List

#	Resource Name *	Set Number *	Identifier	+
1	[REDACTED]	1		+
2				+

Enter 'Resource Name' and select the 'Set Number' you wish to select for the Trade Date prior to Gate Closure 1 (13:30)

Choice List

#	Resource Name *	Set Number *	Identifier	+
1	[REDACTED]	1		+
2	[REDACTED] <input style="width: 100%;" type="text"/>	2 <span style="font-size: small;">v</span>	<input style="width: 100%;" type="text"/>	+

Select 'Submit'

↗ Submit

## 6 TECHNICAL OFFER DATA PARAMETERS

For further information relating to the Technical Offer Data Parameters please see the below links to the latest versions of the I-SEM Technical Specification, the Grid Code and the Trading and Settlement Code Part B:

- [I-SEM Technical Specification \(Name > I-SEM Technical Specification\)](#)
- [The Northern Ireland Grid Code](#)
- [The Ireland Grid Code](#)
- [Trading and Settlement Code](#)