

Discussion Request 1214			Interim Metering Responsibilities for DSO Connected Battery Storage		
Status	Issued to Market	Priority	Medium	Status Date	17/08/2021

Date	Version	Reason for Change	Version Status
06/08/2021	1.0	Issued to Market	Final

Part 1 DETAIL OF DISCUSSION REQUEST / MARKET CHANGE REQUEST			
Requesting Organisation(s)	MRSO	Originating Jurisdiction	RoI
Request Originator Name	Jim Long		
Date Raised	06/08/2021		

Classification of Request			
Jurisdictional Applicability	RoI	Jurisdictional Implementation	RoI Specific
If jurisdictional implementation is for one jurisdiction only – is the other jurisdiction required to effect any changes?	N/A	Co-Ordinated Baseline Version No.	No Impact
Change Type	Non-Schema Impacting		

Detail of Request
Reason for Request

Background

Mod_12_13 'Amendment to Special Units Pumped Storage definition to include Energy Storage' was [Approved by the Modification Committee in November 2015](#). The modification extended the specific reference of Pumped Storage in the SEM Trading & Settlement Code to include Battery Storage. As a result ISEM requires the export and demand values of a Battery Storage Unit to be handled through the Generator Unit only i.e. the energy exported onto the network and also the energy consumed from the network are both attributable to the generator unit.

Impacts on the Retail Market of the amendment to the Trading and Settlement Code in relation to Battery Storage were not fully considered when the amendment was being assessed in the Wholesale Market. Therefore, no policy or market design changes were made to the Retail Market to reflect the amendment.

The issue in the Retail Market is that there are no policies or mechanism to identify and treat Battery Storage units differently to any other type of generator.

Key design principles of the retail market include the following

- All energised MPRNs must have a registered supplier,
- Import can only be attributed to a supplier,
- DUoS must be billed to a supplier for all registered MPRNs connected to the Distribution system.

Actual import data per supplier unit and export data per generator unit is sent to SEMO using the 590 SEMO Aggregated Data market message. Two individual messages are populated and sent to SEMO from each aggregation, one containing Supplier Unit Data and the other containing Participant Generator Unit Data. A single stream of data showing positive or negative values cannot be sent from the Central Market System for a participant generator without significant change to the retail market policies, retail market design, and Retail Market systems.

Proposed Solution

Following discussions EirGrid has agreed, as an interim measure, to act as the Meter Data Provider for Battery Storage Units. EirGrid will poll the DSO connected battery storage sites and provide the import and export data to SEMO in a single data stream under a Generator Unit ID, as required by SEMO.

This will mean that MRSO, while this arrangement is in place, will not aggregate the import for these sites and therefore will not include the import for these sites in

- 595 and 596 market messages to suppliers or
- the 595 message to TSO, and
- will not include the import for these sites in 590 messages to SEMO.

MRSO will not aggregate export for these sites either and therefore the generator will not be sent the 594 or 597 market messages for the export data.

Changes to the following retail market documents will be required.

MPD16 2.1 Data Aggregation

A new segment will be added under *Supplementary Information* titled 'Battery Storage'.

The following text will be added to this new segment:

As an interim measure EirGrid will be acting as Meter Data Provider for DSO connected Battery Storage units and will provide the import and export data in a single data stream to SEMO.

This means that Battery Storage units will not be sent 594 or 597 market messages from MRSO for the export data.

MRSO will also not aggregate the import for Battery Storage units and therefore will not include the import for these sites in 595 and 596 market messages to suppliers or 595 market message to TSO, and will not include the import for these sites in 590 market messages to SEMO.

MPD 15 Data Processing QH

The following sentence will be added to section 3.6 *Responsibilities between MRSO and TSO for Polling and Publishing Data*:

As an interim measure EirGrid will be acting as Meter Data Provider for DSO connected Battery Storage units and will provide the import and export data in a single data stream to SEMO.

The document currently referenced in section 3.6 '*Meter Data Roles and Responsibilities*' will be updated by EirGrid and ESB Networks to reflect the interim meter responsibilities for DSO connected Battery Storage.

A new segment will also be added to MPD 15 titled '*Battery Storage*'.

The following text will be added to this new segment:

As an interim measure EirGrid will be acting as Meter Data Provider for DSO connected Battery Storage units and will provide the import and export data in a single data stream to SEMO.

DSO connected Battery Storage units will not be sent 342 messages from MRSO, instead, meter data will be available to the participant via the established wholesale market mechanisms.

MRSO will send 341 messages to the registered supplier and TSO based on the following:

- *If the Battery Storage unit is transmission connected EirGrid will provide the QH import read data to MRSO.*
- *If the Battery Storage unit is distribution connected ESB Networks will, in addition to EirGrid, poll the import for these sites.*

DUoS for Battery Storage units will be billed in accordance with MPD 34 -DUoS, Transaction and PSO Payment Process.

Aggregation Briefing Document

The following text will be added to section 5.1 QH Import and section 5.2 QH Export:

5.1 QH Import

As an interim measure EirGrid will be acting as Meter Data Provider for DSO connected Battery Storage units and will provide the import and export data in a single data stream to SEMO.

This means that

- *MRSO will not be aggregating the import for these sites, and will therefore not include the import for these sites in 595 and 596 market messages to suppliers or and 595 message to TSO, and will not include the import for these sites in the 590 market messages to SEMO.*
- *MRSO will send 341 market messages to the registered supplier and TSO based on the following:*
- *If they are transmission connected Battery Storage EirGrid will provide the QH import read data to MRSO.*
- *If they are distribution connected Battery Storage ESB Networks will in addition to EirGrid poll the import for these sites.*
- *Where the Duos Group of this site indicates that it is an Autoproducer for DUoS Billing netting purposes, ESB Networks will, in addition to EirGrid, poll the export for Duos Billing netting purposes on a working day/weekday basis. The netted value will be available to the supplier in the 341 MM.*

5.2 QH Export

As an interim measure EirGrid will be acting as Meter Data Provider for DSO connected Battery Storage units and will provide the import and export data in a single data stream to SEMO.

This means that

- *Export data relating to Battery Storage units is handled by EirGrid for Data Processing and submission to SEMO.*
- *Meter data will be available to the participant via the established wholesale market mechanisms.*
- *The export data for Battery Storage units will not be contained in any 342, 590, 594, 597 market messages.*

Enduring Process

Policy

Policy changes may be required to facilitate the enduring processes related to Battery storage. Changes to the Retail Market design and systems can only be fully assessed once decisions on policy changes have been published.

Battery Storage ISEM Registration Process

The interim measures described above will remain in place until such time as an enduring process for Battery Storage registration is agreed through the SEM change control governance and sufficient time is allowed for changes to be designed, agreed, and implemented in the Retail Market.

Scope of Change

Jurisdiction	Design Documentation	Business Process	DSO Backend System Change	MP Backend System Change	Tibco	Supplier EIMMA	Schema	Webforms	Extranet/NI Market Website
ROI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Co-Ordinated Baseline Market Design Documents Impacted by Request
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Market Messages

Message No.	Message Name	CoBL	ROI	NI
No Impact	No Impact	No Impact	No Impact	No Impact

Data Definitions

No Impact

Data Codes

No Impact at present

Market Message Implementation Guides

ROI	Yes/No	NI	Yes/No
	N/A	No Impact	Y

Comments

ROI - Market Process Diagrams – MPDs

Market Process Number	Market Procedure	Affected		
MP 15	MPD 15 - Data Processing - QH Meter	Y		
MP 16	MPD 16 2.1 Data Aggregation	Y		

NI - Market Procedures

Market Procedure	Affected	
No Impact	No Impact	

ROI Guidance Documentation

Document	Version	Affected
No impact		No Impact

RoI Briefing Document			
Briefing Document	Affected		
Aggregation Briefing Document	Y		

User and Technical Documents			
Reference	Name	Version	Affected
No impact			No Impact
Part 2 - Performance and Data Changes			
Market Messages volume, processing etc.			
Data			
Details of Data changes e.g. cleansing			

Part 3 - ReMCoSG / CRU Approval		
Approved by	ReMCoSG	CRU
Comments		