

I-SEM Technical Specification (ITS)

VOLUME E: CAPACITY MARKET V5.0

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Document History

Version	Date	Author	Comment
1.0	28.10.2016	EirGrid and SONI	Initial Draft of the Capacity Market Volume
2.0	05.05.2017	EirGrid and SONI	Minor updates to field names and descriptions Additional Data item 'Exemption of New Capacity' added to CMU attributes table.
3.0	13.10.2017	EirGrid and SONI	Update to data types for: <ul style="list-style-type: none"> • Generator Unit Data Attributes. • Participant Primary Auction Results Updates to numerous report details, field names, format, and description for: <ul style="list-style-type: none"> • Market Qualification Report • Participant Qualification Report • Provisional/Final Market Primary Auction Results • Provisional/Final Participant Primary Auction Results
4.0	22.11.2017	EirGrid and SONI	Update to Participant Qualification Report download in section 6.1.2
5.0	28/03/2018	EirGrid and SONI	Updated Reporting section to include Capacity Auction Results – Constraints Data Updated footer for 2018 date

Distribution List

Name	Organisation
All Market Participants	

Source / Reference Documents

Document Name	Document Reference
Capacity Market Code	http://www.sem-o.com/ISEM/Pages/Publications.aspx?documentarchivestatus=Active

1 DISCLAIMER AND CONTENT INFORMATION

This document has been prepared to provide participants with sufficient information in order to develop their own systems to interface with the I-SEM.

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2 INTRODUCTION

2.1 SCOPE OF THIS DOCUMENT

The I-SEM¹ Technical Specification (ITS) comprises a number of volumes which provide participants with the information necessary for them to develop their own systems to interface with the I-SEM central market systems.

The volumes of the I-SEM Technical Specification are:

Volume	Document
A	ISEM TS (Overarching Volume)
B	ISEM TS (Technical Volume)
C	ISEM TS (Balancing Market Volume)
D	ISEM TS (SEMOpX Ex-Ante Markets Volume)
E	ISEM TS (Capacity Market Volume)
F	Intentionally blank
G	ISEM TS (Glossary)

Table 1: I-SEM Technical Specification Volumes

This volume (E) covers all aspects of the Capacity Market Interface used by Participants to communicate with the Capacity Market Systems, which forms part of the I-SEM Systems. This document principally addresses the functional aspects of the Capacity Market Interface and is provided to enable participants to communicate with the I-SEM Capacity Market Systems. The separate *ITS Volume B (Technical Volume)* covers the technical aspects of the Capacity Market Interface.

This document covers the submission and retrieval of Capacity Market data by Participants using the Capacity Market Interface. Interaction with the Capacity Market Portal will use only the Type 2 Communication Channel. ITS Volume C includes details of all reports relating to Capacity Market settlement.

Definitions and terms contained within the *ITS Volume G (Glossary)* provide information to support the understanding of the content presented in the volumes of the I-SEM Technical Specification.

Notes:

1. Whilst this document refers to the market as “I-SEM”, the market will continue to legally be referenced as the “Single Electricity Market (SEM)”.

¹ The market arrangements and associated delivery project are known as the I-SEM, but parties are asked to note that the legal name for the new arrangements will be the Single Electricity Market (SEM).

2.2 CAPACITY MARKET INTERFACE

The entire suite of systems delivered by the I-SEM Market Operator/Transmission System Operators is known as the **I-SEM Systems**. The **I-SEM Systems** include the **Capacity Market Portal**, which is a portal interface used by Participants to access the Capacity Market systems, for the purpose of participating in qualification processes, primary Auctions and Secondary Auctions (including receiving corresponding reports). Details relating to retrieval of settlement reports in relation to the Capacity Market are included in ITS Volume C.

2.3 STRUCTURE OF THIS VOLUME

The *I-SEM Technical Specification Capacity Market Volume* is structured as follows:

- **Section 3** provides information relating to the treatment of time in the Capacity Market Interface, explaining time stamping and trading interval definitions.
- **Section 4** provides information relating to the registration process for the Capacity Market.
- **Section 5** provides information relating to the means by which participants interact with the Capacity Market Portal in order to participate in Primary Auctions and Secondary Auctions.
- **Section 6** provides information relating to the reports which can be accessed by participants in relation to Capacity Market trading.

Note: all relevant information in relation to settlement of the Capacity Market and associated data/reports is contained within ITS Volume C.

The principal activities in relation to the Capacity Market are:

- **Registration** (i.e. of Capacity Market Units).
- **Qualification** (by which it is determined the amount of de-rated capacity that Generator Units or Interconnectors qualify to participate as a Capacity Market Unit for a Capacity Auction for a Capacity Period).
- **Primary Auctions** (in which pre-auction activities² are conducted, capacity offers are submitted by Participants in relation to qualified Capacity Market Units and the auction is conducted, 1 to 4 years ahead of delivery³).
- **Secondary Auctions** (more frequent auctions allowing trading to adjust capacity awarded for short periods, e.g. for outages).
- **Settlement** (governed by the Trading and Settlement Code; relevant information included in ITS Volume C).
- **Reporting** (reporting the results in relation to Primary Auctions or Secondary Auctions).

Each of the principal Capacity Market activities is outlined in sections 4 to 6.

² Including defining auction timetables, publishing auction information packs, determining capacity requirements and establishing the de-rating rules.

³ Note: New capacity offered but not built when offered will be subject to a Performance Bond and monitoring / reporting of progress.

3 TREATMENT OF TIME IN THE CAPACITY MARKET

3.1 TIME REPRESENTATION

The following sections identify the time representations associated with the Capacity Market Interface, which may only be accessed via Type 2 interactions (i.e. human to computer via the portal user interface). As a result, this document no Type 3 interface information is required.

3.2 TRADING PERIODS

Time handling in the original SEM was handled by end of hour notation where the specific Trading Period was identified by a combination of Trading Day, Hour in Day and Trade Interval attributes. This approach will not be carried forward into the I-SEM, primarily as this approach is not suitable for a market which includes numerous different time intervals (e.g. minute-by-minute Physical Notifications, 5 minute Imbalance Pricing Period, 30 minute Imbalance Settlement Period and 1 hour Day Ahead Market trading intervals).

In the I-SEM, all interval data will be handled via Start_Time and End_Time attributes. These attributes will be in date/time format and will be validated as follows:

- The Start Time attribute must denote the (inclusive) beginning of a Trading Period.
- The End Time attribute must denote the (exclusive) end of a Trading Period.

3.2.1 TYPE 2 – TIME REPRESENTATION

When using the Capacity Market Interface, all data will be in “local time” (i.e. adjusted for daylight savings), which will include both data entry (e.g. offer data submission) and data retrieval (e.g. viewing reports or downloading CSV files containing results data).

4 CAPACITY MARKET REGISTRATION

Registration for the Capacity Market will be via a manual process, which will be managed by the TSOs (EirGrid and SONI)⁴.

The Capacity Market registration process may be initiated by a Participant in parallel with Balancing Market registration (e.g. Generator Unit registration to the Balancing Market and Capacity Market Unit registration in the Capacity Market may be progressed concurrently).

Upon conclusion of the Capacity Market registration process, the Market Operator will enter all of the agreed registration data into the Capacity Market System and/or Balancing Market Systems (as some Capacity Market registration data is also held in the Balancing Market Systems in order to support Capacity Market settlement).

Participants have read-only access to Capacity Market registration data via the Capacity Market Portal. The Capacity Market Portal is a Type 2 interface where Participants will require a web browser to interact with the Capacity Market Systems. Minimum system specifications can be seen in the ITS Volume B: Technical. Details of the means by which Participants access Capacity Market registration data held in the Balancing Market Systems is detailed in ITS Volume C.

4.1 REGISTRATION DATA FOR CAPACITY MARKET UNITS

Capacity Market trading for all Participants is conducted via a Capacity Market Unit (CMU). Table 2 sets out the attributes that relate to a CMU.

Data Item	Volume C Term	Data Type	Description
CMU ID	<i>Resource Name</i> ⁵	<i>Detail to be included later in the implementation phase</i>	Unique Identifier for the CMU.
Jurisdiction	<i>Jurisdiction</i>	<i>Detail to be included later in the implementation phase</i>	Jurisdiction associated with the CMU, either ROI or NI.
Participant ID	<i>Participant Name</i>	<i>Detail to be included later in the implementation phase</i>	Short name, which uniquely identifies the Participant.
Clean Status	<i>N/A</i>	<i>Detail to be included later in the implementation phase</i>	A Yes / No flag status describing the Clean Status of the Capacity Market Unit.
Secondary Trade De-rated Capacity Factor	<i>N/A</i>	<i>Detail to be included later in the implementation phase</i>	Percentage value defining the amount the CMU can offer in secondary trades above its gross De-rated Capacity. Note: if this value is null, there is no restriction for this CMU.
Start Date	<i>Start Date</i>	<i>Detail to be included later in the implementation phase</i>	Effective date for the data fields above.
Expiry Date	<i>End Date</i>	<i>Detail to be included later in the implementation phase</i>	Expiry date for the data fields above.

Table 2: Data attributes associated with a CMU

4.2 GENERATOR UNIT DATA ATTRIBUTES

⁴ Further details in relation to the detailed Capacity Market registration process will be provided once available.

⁵ The CMU ID corresponds to "Resource Name" in the Balancing Market Interface. Where the mapping is one CMU to many Generator Units the corresponding "Resource Type" will be Capacity Aggregation Unit (CAU).

Capacity Market System stores standing data related to Generator Units. The data fields associated with each Generator Unit as defined in Table 3.

Field Name	Volume C Term	Data Type	Description
General Information			
Participant ID	<i>Participant Name</i>	<i>Detail to be included later in the implementation phase</i>	Short name, which uniquely identifies the Participant to which the Generator Unit is associated.
CMU ID	<i>Resource Name</i>	<i>Detail to be included later in the implementation phase</i>	Unique Identifier of the associated CMU which corresponds to the Participant Name and Jurisdiction both associated with this Generator Unit and the CMU ID.
Generator Unit ID	<i>Resource Name</i>	<i>Detail to be included later in the implementation phase</i>	Unique Identifier of the Generator Unit.
Jurisdiction	<i>Jurisdiction</i>	<i>Detail to be included later in the implementation phase</i>	Jurisdiction associated with the Unit, either ROI or NI.
Generator Unit Type	<i>CRM Unit Type</i>	<i>Detail to be included later in the implementation phase</i>	The associated Generator Unit Type for the Generator Unit.
Technology Class	<i>N/A</i>	<i>Detail to be included later in the implementation phase</i>	Technology class associated with the Generator Unit.
Commissioned Quantity	<i>Unit Capacity</i>	<i>Detail to be included later in the implementation phase</i>	Commissioned capacity for the Generator Unit, applicable for the period defined between the Delivery Start Date and Delivery End Date.
Start Date	<i>Start Date</i>	<i>Detail to be included later in the implementation phase</i>	Effective date for the data fields above.
Expiry Date	<i>End Date</i>	<i>Detail to be included later in the implementation phase</i>	Expiry date for the data fields above.

Table 3: Data attributes associated with a Generator Unit

Note: some of the data items in Table 3 above are also required by the Balancing Market Systems, to support Capacity Market settlement (which is performed by the Balancing Market settlement system). As a result, some data items are also accessible via the Market Participant Interface, as set out in ITS Volume C.

4.3 GENERATOR DATA ATTRIBUTES

Capacity Market System stores standing data related to Generators. Capacity Market Generator level registration information is required for Aggregated Generator Units only and is not required for the Balancing Market. The data fields associated with each Generator as defined in Table 5: Capacity Market Transactions.

Field Name	Data Type	Description
General Information		
Generator ID	<i>Detail to be included later in the implementation phase</i>	Unique Identifier of the Generator.
Parent Generator Unit ID	<i>Detail to be included later in the implementation phase</i>	Identifier of the Aggregated Generator Unit to which this Generator is associated
Generator Type	<i>Detail to be included later in the implementation phase</i>	The associated Generator Type for the Generator.
Technology Class	<i>Detail to be included later in the implementation phase</i>	Technology class associated with the Generator.
Commissioned Quantity	<i>Detail to be included later in the</i>	Commissioned capacity for the Generator, applicable for the period defined between the

Field Name	Data Type	Description
	<i>implementation phase</i>	Delivery Start Date and Delivery End Date.
Start Date	<i>Detail to be included later in the implementation phase</i>	Effective date for the data fields above.
Expiry Date	<i>Detail to be included later in the implementation phase</i>	Expiry date for the data fields above.

Table 4: Data attributes associated with a Generator

5 CAPACITY MARKET TRADING

The transactions covered in this section relate to trading in the Capacity Market and are summarised in Table 5.

Transaction	Description
Qualification Data	The process for determining what capacity is available for a given Generator Unit, Generator or Interconnector is de-rated.
Primary Auction	The process for awarding Capacity to qualifying CMUs for a defined Capacity Period ⁶ .
Secondary Auction	The process for awarding further Capacity to qualifying CMUs and enabling CMUs to sell Capacity which has already been awarded.
Reporting	The process for supplying the data to the Market and individual Participants as a result of the Qualification, Primary & Secondary Auction processes.

Table 5: Capacity Market Transactions

5.1 QUALIFICATION

Qualification is the process of determining what capacity is available for a given Generator Unit or Interconnector, via the calculation and application of de-rating to reflect the availability of a Generator Unit for a Capacity Period.

For each Capacity Period, there is a Primary Auction. For each Primary Auction, the process enables Participants to define whether their Generator Units will opt in / out of the associated qualification process.

All existing Dispatchable Generator Units above the De Minimis Threshold and Interconnectors are required to opt-in to the qualification process. All Generator Units or Interconnectors required to opt in may choose to opt out, only if that Generator Unit or Interconnector is exiting the market.

5.1.1 CAPACITY MARKET QUALIFICATION: GENERATOR UNIT DATA ATTRIBUTES

Once a Generator Unit has opted in for a Primary Auction, the Participant shall be able to view the following data attributes via the Capacity Market Portal in respect of each qualifying CMU (which are either inputs to, or derived from, the qualification process).

Field Name	Data Type	Description
Accepted	<i>Boolean</i>	A Boolean Yes / No flag defining whether a Generator Unit has been accepted into the qualification process.
Minimum Firm Transmission Quantity	<i>NUMBER(8,3)</i>	The least uninterruptible MW transmission value associated with that Generator Unit.

⁶ A Capacity Market Period is expected to be a period of one year

Field Name	Data Type	Description
Capacity Type	Text	<p>A Generator Unit may qualify for two types of Capacity which will be used during the Qualification process. The two types are: "New Capacity" and "Existing Capacity".</p> <ul style="list-style-type: none"> New Capacity means, in respect of the Qualification Process and its associated Capacity Auction, the planned capacity of a new Capacity Market Unit, or the incremental increase in planned capacity of an existing Capacity Market Unit, which has yet to complete Commissioning under the relevant Grid Code. Existing Capacity means, in respect of the Qualification Process and its associated Capacity Auction, the capacity of a Capacity Market Unit as determined when the Generator Unit was last Commissioned under the relevant Grid Code.
Initial Capacity	NUMBER(8,3)	MW initial capacity value associated with this capacity type.
Nominated De-rated Capacity	NUMBER(8,3)	Proposed MW quantity of Existing Capacity or New Capacity for this Generator Unit.
Maximum Duration	NUMBER(3,0)	Maximum amount of time, in integer years for which this type of Capacity is available.
Generator Unit Price Cap	NUMBER(8,2)	Maximum price associated with the Generator Unit for the Primary Auction associated with this Capacity Type.

Table 6: Qualification CMU Data Attributes

5.2 PRIMARY AUCTIONS

The parameters for each Auction will be defined by the TSOs; this data will be viewable by Participants as read-only via the Capacity Market Portal. Participants will be able to submit offers via the Capacity Market Portal prior to the relevant Primary Auction Gate Closure.

Prior to conducting each Primary Auction, the TSOs will provide an Auction Information Pack informing potential Capacity Auction Participants of the timing, requirements and conduct of Capacity Auction, as described in the Capacity Market Code – Revised Plain English Guide_20160818, Section 4.1.4.

5.2.1 PARTICIPANT PRIMARY AUCTION INPUTS

For each Primary Auction, each Participant in respect of each of their qualifying CMUs may submit a **single** offer per auction via the Capacity Market Interface. An offer consists of items set out in Table 7.

Field Name	Data Type	Validation	Description
Order Number	NUMBER(2,0)	Integer value between 1 and 5, must be monotonically increasing or Price Quantity Pairs submitted	Integer, describing the ordering in which Price Quantity Pairs will be processed for the Primary Auction.
Price	NUMBER(8,2)	This must be a number up to 2 decimal places and cannot exceed the	Describes the price associated with the Price Quantity Pair; the currency applicable shall be the currency of the jurisdiction in which the CMU is registered. The prices submitted must be monotonically increasing.

Field Name	Data Type	Validation	Description
		applicable Price Cap Value	
Quantity	NUMBER(8,3)	This must be a number up to three decimal places and must be within cumulative commissioned Capacity for that CMU.	Describes the quantity associated with the Price Quantity Pair; represents the incremental quantity offered to the Primary Auction.
Flexible Flag	Boolean	Boolean, applicable values are "Y" / "N".	Identifies whether or not the quantity portion of the Price Quantity Pair can be fully or partially accepted by the Capacity Market System for the Primary Auction. <ul style="list-style-type: none"> "Y" denotes that the quantity portion can be partially accepted. "N" denotes that the quantity portion must be fully accepted or rejected. Where a Price Quantity Pair with an index of n is designated as flexible, all Price Quantity Pairs with an index greater than n must also be designated as flexible. If this validation fails, the submitted offer shall be rejected with an explanatory error message provided.
Capacity Type	Text	The only applicable values are "NEW" & "EXISTING".	Where a Price Quantity Pair with an index of n has an associated Capacity Type of "New", all Price Quantity Pairs with an index greater than n must also be assigned the "New" Capacity Type. If this validation fails, the submitted offer shall be rejected with an explanatory error message provided.
Duration	NUMBER(3,0)	Integer value; if the Capacity Type is "EXISTING", this must be greater than or equal to "1" and may not exceed "10". Duration values must be the same for all Price Quantity Pairs with the same Capacity type.	Describes the length in years for which the associated Price Quantity Pair is being offered. The duration value for each of New and Existing capacity types for each CMU must be the same, (i.e. cannot have a duration of 5 years and 6 years for two different Price Quantity Pairs relating to Capacity type "New").

Table 7: Participant Primary Auction Data Inputs

Qualifying Participants may view, update or cancel their submitted Primary Offers up until the relevant Primary Auction Gate Closure. Once the Primary Auction Gate Closure has passed, Participants may only view their Primary Offers (i.e. read-only). The currency applicable to each offer must be the same currency in which the respective CMU is registered.

5.3 SECONDARY AUCTIONS

Note: Per the RA's publication of DR2_001 (Secondary Trading with IA), this functionality has been deferred until after the initial I-SEM go-live of 23 May 2018.

Secondary Auctions enable Participants in respect of their qualifying CMUs to bid and offer for Capacity. CMUs which have already been awarded Capacity from the Primary Auction offer to can sell their awarded capacity or bid to buy more Capacity from the Secondary Auction. Each Secondary Auction shall be defined by the TSOs, with the parameters and constraints being made available to Participants via the Capacity Market Interface.

Prior to each Secondary Auction, the TSOs will prepare and make available an Auction Information Pack. The Auction Information Pack informs potential Capacity Auction Participants of the timing, requirements and conduct of the Secondary Capacity Auction as

described in the Capacity Market Code – Revised Plain English Guide_20160818, Section 4.1.4.

5.3.1 PARTICIPANTS SECONDARY AUCTION INPUTS

For each Secondary Auction, the Gross De-rated Capacity for each CMU shall be set equal to the Gross De-rated Capacity calculated for the Generator Unit as a result of the latest Qualification process for the Capacity Period in which the auction reference period is contained.

For each Secondary Auction, each Participant in respect of their qualifying CMUs shall be able to submit an offer, bid or both.

5.3.1.1 SECONDARY AUCTION OFFER

For each Participant submitting an offer to the Secondary Auction, the offer submitted will be validated to ensure that the lowest price in the offer is greater than the highest price submitted in any bid submitted for the same CMU.

Field Name	Data Type	Validation	Description
Order Number	<i>Detail to be included later in the implementation phase</i>	Integer value between 1 and 5, must be monotonically increasing or Price Quantity Pairs submitted	Describes the ordering in which Price Quantity Pairs will be processed for the Secondary Auction.
Price	<i>Detail to be included later in the implementation phase</i>	Must be a number up to 2 decimal places and cannot exceed the applicable Auction Price Cap.	Describes the price associated with the Price Quantity Pair; the currency applicable shall be the currency of the jurisdiction in which the CMU is registered. The prices submitted must be monotonically increasing.
Quantity	<i>Detail to be included later in the implementation phase</i>	Must be a number and cannot exceed the Seller Limit of the CMU.	Describes the quantity associated with the Price Quantity Pair; the aggregate quantity of the total offer must not exceed the Seller Limit associated with the CMU.
Technical Validation	<i>Detail to be included later in the implementation phase</i>	Boolean, applicable values are "Y" / "N".	Flag which must be checked confirming the offer was made for a legitimate technical reason. If the validation fails (i.e. flag not checked), the order will rejected and communicated to the respective Participant.

Table 8: Participant Secondary Auction Offer Inputs

Offers may be updated or cancelled up until Secondary Auction Gate Closure, after this time Offers may only be viewed by Participants for their respective CMUs (i.e. read-only).

5.3.1.2 SECONDARY AUCTION BID

For a Participant submitting a bid to the Secondary Auction, the bid submitted will be validated to ensure that the highest price in the bid is greater than the lowest price submitted in an offer submitted for the same CMU.

Field Name	Data Type	Validation	Description
Order Number	<i>Detail to be included later in the implementation phase</i>	Integer value between 1 and 5, must be monotonically increasing or Price	Describes the ordering in which Price Quantity Pairs will be processed for the Secondary Auction.

Field Name	Data Type	Validation	Description
		Quantity Pairs submitted	
Price	<i>Detail to be included later in the implementation phase</i>	Must be a number up to 2 decimal places and cannot exceed the applicable Auction Price Cap.	Describes the price associated with the Price Quantity Pair; the currency applicable shall be the currency of the jurisdiction in which the CMU is registered. The prices submitted must be monotonically increasing.
Quantity	<i>Detail to be included later in the implementation phase</i>	Must be a number and cannot exceed in Buyer Limit of the CMU.	Describes the quantity associated with the Price Quantity Pair; the aggregate quantity of the total offer must not exceed the Buyer Limit associated with the CMU.
Technical Validation	<i>Detail to be included later in the implementation phase</i>	Boolean, applicable values are "Y" / "N".	Flag which must be checked confirming the offer was made for a legitimate technical reason. If the validation fails (i.e. flag not checked), the order will be rejected and communicated to the respective Participant.

Table 9: Participant Secondary Auction Bid Inputs

6 REPORTING

This section details the Capacity Market reports which can be accessed by Participants via the Capacity Market Interface. The reports available are set out in Table 10 below.

Category	I-SEM Report Reference	Report Title	Document Section
Qualification Results	REPT_201	Market Qualification Results	6.1.1
	REPT_202	Participant Qualification Results	6.1.2
Primary Auction Results	REPT_203	Provisional Market Primary Auction Results	6.2.1
	REPT_204	Provisional Participant Primary Auctions Results	6.2.2
	REPT_205	Final Market Primary Auction Results	6.2.1
	REPT_206	Final Participant Primary Auctions Results	6.2.2
	REPT_211	Capacity Auction Results – Constraints Data	6.2.3
Secondary Auction Results	REPT_209	Final Market Secondary Auction Results	6.3.1
	REPT_210	Final Participant Secondary Auctions Results	6.3.2

Table 10: Capacity Market Reports

All reports will be made available via the CM GUI which can be accessed via web browsers and downloaded in CSV format. The exact format of the CSV downloads will be included later in the implementation phase.

6.1 QUALIFICATION RESULTS

The following reports will be published to Market Participants once the Qualification process has been completed for either a Primary or Secondary Auction.

6.1.1 MARKET QUALIFICATION REPORT

<i>I-SEM Report Reference:</i>	<i>REPT_201</i>
<i>Report Type:</i>	<i>Market</i>
<i>Report Sub-Type:</i>	<i>Qualification</i>
<i>Periodicity:</i>	<i>Per Primary Auction</i>
<i>Report Name:</i>	<i>Market Qualification Report</i>
	<i>Provisional Qualification Report:</i>
	<i>MQR_P_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]</i>
<i>File Names:</i>	<i>Final Auction Report:</i>
	<i>MQR_F_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]</i>
<i>Report Title:</i>	<i>Market Qualification Report</i>
<i>Audience:</i>	<i>Member Public</i>
<i>Resolution:</i>	<i>Primary Auction</i>
<i>Time Span:</i>	<i>Capacity Period, Varying (Secondary Trading)</i>
<i>Frequency:</i>	<i>Per Primary Auction</i>
<i>Report Format:</i>	<i>CSV (delimited with semicolon)</i>

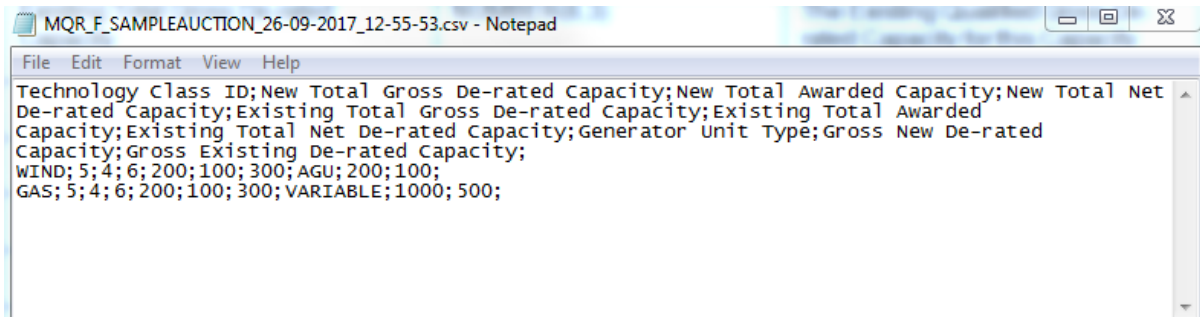
Note: the following information is captured in the file name:

- Primary Auction Name
- Report Type (Provisional, Final)

Field Name	Format	Description
TECHNOLOGY CLASS ID	Text	Identifies the Technology class of the Generator Unit.
New Total Gross De-rated Capacity	NUMBER(8,3)	The Total Qualified Gross De-rated Capacity for this Capacity Type.
New Total Awarded Capacity	NUMBER(8,3)	The Total Awarded Capacity for this Capacity Type
New Total Net De-rated Capacity	NUMBER(8,3)	The Total Net De-rated Capacity for this Capacity Type
Existing Total Gross De-rated Capacity	NUMBER(8,3)	The Existing Qualified Gross De-rated Capacity for this Capacity Type.
Existing Total Awarded Capacity	NUMBER(8,3)	The Existing Awarded Capacity for this Capacity Type
Existing Total Net De-rated Capacity	NUMBER(8,3)	The Existing Net De-rated Capacity for this Capacity Type
Generator Unit Type	Text	The Generator Unit type classification.
Gross New De-rated Capacity	NUMBER(8,3)	The Gross New De-rated Capacity for this Capacity Type
Gross Existing De-rated Capacity	NUMBER(8,3)	The Gross Existing De-rated Capacity for this Capacity Type

Table 11: Market Qualification Report

The following is sample of the csv format for file with filename "MQR_F_SAMPLEAUCTION_26-09-2017_12-55-53.csv":



6.1.2 PARTICIPANT QUALIFICATION REPORT

I-SEM Report	<i>REPT_202</i>
Reference:	
Report Type:	<i>Participant</i>
Report Sub-Type:	<i>Miscellaneous</i>
Periodicity:	<i>Per Primary Auction</i>
Report Name:	<i>Participant Qualification Report</i>
File Names:	<i>Provisional Participant Qualification Report:</i> <i>PQR_P_[PARTICIPANT_ID]_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]</i> <i>Final Participant Qualification Report:</i> <i>PQR_F_[PARTICIPANT_ID]_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]</i>
Report Title:	<i>Market Qualification Report</i>
Audience:	<i>Member Private</i>

Resolution: Per Primary Auction and Participant
Time Span: Capacity Period
Frequency: Per Primary Auction
Report Format: CSV (delimited with semicolon)

Note: the following information is captured in the file name:

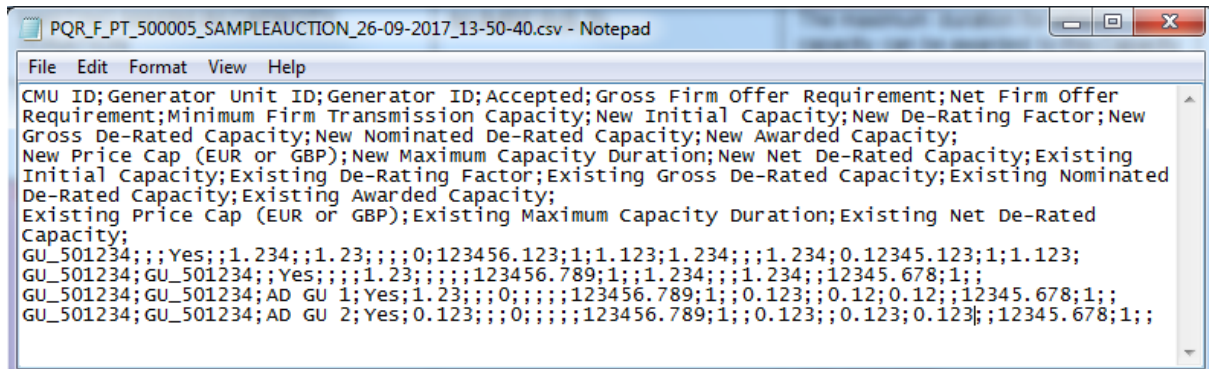
- Report Type (Provisional, Final)
- Primary Auction Name
- Participant Name

Field Name	Format	Description
CMU ID	Text	The unique identifier for the Capacity Market Unit.
GENERATOR UNIT ID	Text	The unique identifier for the resource (GU_xxxxxxx)
GENERATOR ID	Text	If this generator unit forms part of an Aggregated generator Unit, this is the unique identifier of the generator unit.
ACCEPTED	Boolean	This is a "Yes" / "No" Flag defined for the Generator Unit in the Qualification Register. All later fields should be null if this is set to "No"
GROSS FIRM OFFER REQUIREMENT	NUMBER(8,3)	The Gross Firm Offer Requirement associated with this Capacity Market Unit.
NET FIRM OFFER REQUIREMENT	NUMBER(8,3)	The Net Firm Offer Requirement associated with this Capacity Market Unit.
MINIMUM FIRM TRANSMISSION CAPACITY	NUMBER(8,3)	The minimum firm transmission capacity associated with the Generator Unit.
NEW INITIAL CAPACITY	NUMBER(8,3)	The new Initial Capacity of the Generator Unit for this Qualification report.
NEW DE-RATING FACTOR	NUMBER(8,3)	The new De-rating Factor as calculated for this Qualification report.
NEW GROSS DE-RATED CAPACITY	NUMBER(8,3)	The new De-rated Capacity determined in Qualification
NEW NOMINATED DE-RATED CAPACITY	NUMBER(8,3)	The new De-rated Capacity nominated for this generator unit for this Qualification report.
NEW AWARDED CAPACITY	NUMBER(8,3)	The previously awarded new capacity to this Capacity Market Unit for this Capacity Period
NEW PRICE CAP	NUMBER(8,2)	This will be the Auction Price Cap that applies to New Capacity (EUR or GBP)
NEW MAXIMUM CAPACITY DURATION	NUMBER(8,3)	The maximum duration for which capacity can be awarded to this Capacity Market Unit for New Capacity
NEW NET DE-RATED CAPACITY	NUMBER(8,3)	The new net de-rated Capacity for this Capacity Market Unit. (Gross De-Rated Capacity minus the Awarded Capacity)
EXISTING INITIAL CAPACITY	NUMBER(8,3)	The existing Initial Capacity of the Generator Unit for this Qualification report.
EXISTING DE-RATING FACTOR	NUMBER(8,3)	The existing De-rating Factor as calculated for this Qualification report.
EXISTING GROSS DE-RATED CAPACITY	NUMBER(8,3)	The existing De-rated Capacity determined in Qualification
EXISTING NOMINATED DE-RATED CAPACITY	NUMBER(8,3)	The existing De-rated Capacity nominated for this generator unit for this Qualification report.
EXISTING AWARDED CAPACITY	NUMBER(8,3)	The previously awarded existing capacity to this Capacity Market Unit for this Capacity Period
EXISTING PRICE CAP	NUMBER(8,2)	This will be the Unit Specific Price Cap, if it exists and the Existing Capacity Price Cap otherwise. (EUR or GBP)
EXISTING MAXIMUM CAPACITY DURATION	NUMBER(8,3)	The maximum duration for which capacity can be awarded to this Capacity Market Unit for existing Capacity

Field Name	Format	Description
EXISTING NET DE-RATED CAPACITY	NUMBER(8,3)	The existing net de-rated Capacity for this Capacity Market Unit. (Gross De-Rated Capacity minus the Awarded Capacity)

Table 12: Participant Qualification Report

The following is sample of the csv format for file with filename "PQR_F_PT_500005_SAMPLEAUCTION_26-09-2017_13-15-40.csv":



```

CMU ID;Generator Unit ID;Generator ID;Accepted;Gross Firm Offer Requirement;Net Firm Offer Requirement;Minimum Firm Transmission Capacity;New Initial Capacity;New De-Rating Factor;New Gross De-Rated Capacity;New Nominated De-Rated Capacity;New Awarded Capacity;New Price Cap (EUR or GBP);New Maximum Capacity Duration;New Net De-Rated Capacity;Existing Initial Capacity;Existing De-Rating Factor;Existing Gross De-Rated Capacity;Existing Nominated De-Rated Capacity;Existing Awarded Capacity;Existing Price Cap (EUR or GBP);Existing Maximum Capacity Duration;Existing Net De-Rated Capacity;
GU_501234;;;Yes;;;1.234;;1.23;;;0;123456.123;1;1.123;1.234;;;1.234;0.12345.123;1;1.123;
GU_501234;GU_501234;;Yes;;;1.23;;;123456.789;1;1.234;;;1.234;12345.678;1;;
GU_501234;GU_501234;AD GU 1;Yes;1.23;;;0;;;123456.789;1;0.123;0.12;12345.678;1;;
GU_501234;GU_501234;AD GU 2;Yes;0.123;;;0;;;123456.789;1;0.123;0.123;12345.678;1;;

```

6.2 PRIMARY AUCTION RESULTS

On the completion of a Primary Auction the following reports shall be published to Market Participants via the Capacity Market Interface.

6.2.1 PROVISIONAL/FINAL MARKET PRIMARY AUCTION RESULTS

I-SEM Report Reference:	REPT_203, REPT_205
Report Type:	Market
Report Sub-Type:	Final / Provisional
Periodicity:	Per Primary Auction
Report Name:	Market Primary Auction Results
File Names:	Provisional Market Auction Results Report: MAR_P_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]
	Final Market Auction Results Report: MAR_F_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]
Report Title:	Market Primary Auction Results
Audience:	Member Public
Resolution:	Primary Auction
Time Span:	Capacity Period
Frequency:	Per Primary Auction
Report Format:	CSV (delimited with semicolon)

Note: the following information is captured in the file name:

- Report Type (Provisional, Final)
- Primary Auction Name

Field Name	Format	Description
DELIVERY PERIOD START	DateTime YYYY-MM-DDTHH:MM:SSZ	The start of the delivery period.

Field Name	Format	Description
DELIVERY PERIOD END	DateTime YYYY-MM-DDTHH:MM:SSZ	The end of the delivery period.
EXISTING CAPACITY PRICE CAP	NUMBER(8,2)	The Existing Capacity Price Cap
AUCTION PRICE CAP	NUMBER(8,2)	The Auction Price Cap
ANNUAL CAPACITY EXCHANGE RATE	NUMBER(5,4)	The annual Capacity Exchange Rate associated with this Primary Auction
AUCTION CLEARING PRICE EUR	NUMBER(8,2)	The Clearing Price of the Primary Auction in Euros
AUCTION CLEARING PRICE GBP	NUMBER(8,2)	The Clearing Price of the Primary Auction in Sterling
AVERAGE COST OF AWARDED CAPACITY EUR	NUMBER(8,2)	The Volume weighted average of the price at which capacity was awarded in Euros
AVERAGE PRICE OF AWARDED CAPACITY GBP	NUMBER(8,2)	The Volume weighted average of the price at which capacity was awarded in Sterling
AVERAGE DURATION OF AWARDED CAPACITY	NUMBER(8,2)	The Volume weighted average of the duration of awarded capacity.
NUMBER OF PARTICIPATING CMUs	NUMBER(4,0)	The number of Capacity Market Units offering Capacity for this Primary Auction.
NUMBER OF SUCCESSFUL CMUs	NUMBER(4,0)	The number of Capacity Market Units awarded Capacity in this Primary Auction
TOTAL SOCIAL WELFARE	NUMBER(8,2)	The total social welfare delivered by the auction in Euros
TOTAL CAPACITY OFFERED	NUMBER(8,3)	The total quantity of Capacity offered for this Primary Auction
TOTAL CAPACITY AWARDED	NUMBER(8,3)	The total quantity of Capacity awarded for this Primary Auction

Table 13: Provisional / Final Market Primary Auction Results

The following is sample of the csv format for file with filename "MAR_P_SAMPLEAUCTION_26-09-2017_13-50-55.csv":

6.2.2 PROVISIONAL/FINAL PARTICIPANT PRIMARY AUCTION RESULTS

I-SEM Report *REPT_204, REPT_206*

Reference:

Report Type: *Participant*

Report Sub-Type: *Final / Provisional*

Periodicity: *Per Primary Auction*

Report Name: *Participant Primary Auction Results*

File Names: *Provisional Participant Auction Results Report:*
PAR_P_[PARTICIPANT_ID]
_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]

Final Participant Auction Results Report:
PAR_F_[PARTICIPANT_ID]
_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]

Report Title: *Participant Primary Auction Results*

Audience: *Member Private*

Resolution: Per Primary Auction and Participant
Time Span: Capacity Period
Frequency: Per Primary Auction
Report Format: CSV (delimited with semicolon)

Note: the following information is captured in the file name:

- Report Type (Provisional, Final)
- Primary Auction Name
- Participant Name

Field Name	Format	Description
PARTICIPANT ID	Text	The unique identifier for the Participant (PT_XXXXXX)
CMU ID	Text	The unique identifier for the Capacity Market Unit.
TOTAL CAPACITY OFFERED	NUMBER(8,3)	The Total capacity offered in the Primary Auction awarded to this Capacity Market Unit.
TOTAL CAPACITY AWARDED	NUMBER(8,3)	The Total capacity awarded in the Primary Auction to this Capacity Market Unit.
AVERAGE PRICE OF CAPACITY AWARDED	NUMBER(8,2)	The Volume weighted average of price of capacity awarded to this CMU
AVERAGE DURATION OF AWARDED CAPACITY	NUMBER(8,2)	The Volume weighted average of the duration of awarded capacity to this CMU
OFFER INDEX	NUMBER(4,0)	One for each Price-Quantity pair in a submitted offer
PRICE	NUMBER(8,2)	Price of submitted Price-Quantity pair
QUANTITY	NUMBER(8,3)	Quantity of submitted Price-Quantity pair
FLEXIBLE	Boolean	Flexible flag of submitted Price-Quantity pair. Values "Yes" or "No" are possible
CAPACITY TYPE	Text	Capacity Type of submitted Price-Quantity pair. Values "New" or "Existing" are possible
DURATION	NUMBER(4,0)	Duration of submitted Price-Quantity pair
AWARD	NUMBER(8,3)	Capacity award quantity associated with this Price-Quantity pair
AWARD PRICE	NUMBER(8,2)	Capacity award price associated with this Price-Quantity pair

Table 14: Provisional / Final Participant Primary Auction Results

The following is sample of the csv format for file with filename "PAR_F_PT_500005_CERTCON1_26-09-2017_13-16-28.csv":

```

Participant ID;CMU ID;Total Capacity Offered;Total Capacity Awarded;Average Price of Capacity
Awarded;Average Duration of Capacity Awarded;Offer Index;Price;Quantity;Flexible;Capacity
Type;Duration;Award;Award Price;
PT_500005;CMU1;200;100;200.12;100.12;1;10000;50;No;Existing;1;10.123;20000.12;
PT_500005;CMU1;200;100;200.12;100.34;2;11000;50;No;New;2;10.123;20000.12;
PT_500005;CMU1;200;100;200.12;100.56;5;13000;20;No;New;1;10.123;20000.12;
PT_500005;CMU1;200;100;200.12;100.78;4;12500;20;No;Existing;1;10.123;20000.12;
PT_500005;CMU1;200;100;200.12;100.89;3;12000;20;No;Existing;1;10.123;20000.12;

```

6.2.3 CAPACITY AUCTION RESULTS – CONSTRAINTS DATA

This report contains constraints data from each Capacity Auction and is displayed in the footer of the Market Primary Auction Report.

I-SEM Report Reference: REPT_211
Data Source CMP

Periodicity: Per Primary Auction

Report Name: Capacity Auction Results

Provisional Auction Results Constraints Data:
MAR_P_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]_Constraints

Final Auction Results Constraints Data:
MAR_F_[AUCTION_NAME]_[DOWNLOAD_DATE]_[DOWNLOAD_TIME]_Constraints

File Names:

Where:
DOWNLOAD_DATE format is: dd-mm-yyyy
DOWNLOAD_TIME format is: hh24-mi-ss

Report Title: Capacity Auction Results

Audience: Member Public

Resolution: Capacity Market Auction

Time Span: Auction time horizon

Frequency: Per Primary Auction

Report Format: CSV (delimited with semicolon)

Note: the following information is captured in the file name:

- Primary Auction ID
- Report type

Field Name	Format	Description
Constraint ID	Text	Unique Description of Constraint
Limit (MW)	NUMBER(8,3)	Constraint Limit in MW.
Awarded Capacity (MW)	NUMBER(8,3)	Awarded capacity of all CMU related to constraint in MW.
Satisfied	Text	Flag that shows whether constraint was satisfied for current auction results. Possible values: "Yes", "No"

Table 15: Capacity Auction Results Footer Section

6.3 SECONDARY AUCTION RESULTS

6.3.1 PROVISIONAL/FINAL MARKET SECONDARY AUCTION REPORT

I-SEM Report Reference: REPT_207, REPT_209

Report Type: Market

Report Sub-Type: Final

Periodicity: Ad hoc

Report Name: Detail to be included later in the implementation phase

File Names: Detail to be included later in the implementation phase

Report Title: Market Secondary Auction Results

Audience: Member Public

Resolution: Secondary Auction

Time Span: Varying

Frequency: Ad hoc

Report Format: CSV

Field Name	Format	Description
REPORT TYPE	Detail to be included later in the implementation phase	Identifies that Report is "Final".

Field Name	Format	Description
SECONDARY AUCTION ID	<i>Detail to be included later in the implementation phase</i>	The unique Identifier of the Secondary Auction.
PRODUCT ID	<i>Detail to be included later in the implementation phase</i>	The unique Identifier of the Secondary Auction Product.
TOTAL CAPACITY BID	<i>Detail to be included later in the implementation phase</i>	The total MW quantity bid for this Auction.
TOTAL CAPACITY OFFERED	<i>Detail to be included later in the implementation phase</i>	The total MW quantity offered for this auction.
TOTAL CAPACITY CLEARED	<i>Detail to be included later in the implementation phase</i>	The total MW quantity cleared for this auction.
EXCHANGE RATE	<i>Detail to be included later in the implementation phase</i>	The Capacity Exchange Rate used for this Secondary Auction.
AUCTION PRICE CAP	<i>Detail to be included later in the implementation phase</i>	The Price Cap applying for this Secondary Auction
AUCTION CLEARING PRICE EUR	<i>Detail to be included later in the implementation phase</i>	The Clearing Price for this Secondary Auction in Euros
AUCTION CLEARING PRICE GBP	<i>Detail to be included later in the implementation phase</i>	The Clearing Price for this Secondary Auction in Sterling
BIDDING CMUs	<i>Detail to be included later in the implementation phase</i>	The number of Capacity Market Units bidding for Capacity for this Secondary Auction
OFFERING CMUs	<i>Detail to be included later in the implementation phase</i>	The number of CMUs offering for Capacity for this Secondary Auction

Table 16: Provisional / Final Market Secondary Auction Results

Note: The exact format of the CSV download will be included later in the implementation phase.

6.3.2 PROVISIONAL/FINAL PARTICIPANT SECONDARY AUCTION REPORT

I-SEM Report Reference: REPT_208, REPT_210

Report Type: Participant

Report Sub-Type: Final

Periodicity: Ad hoc

Report Name: Detail to be included later in the implementation phase

File Names: Detail to be included later in the implementation phase

Report Title: Participant Secondary Auction Results

Audience: Member Private

Resolution: Secondary Auction

Time Span: Varying

Frequency: Ad hoc

Report Format: CSV

Field Name	Format	Description
REPORT TYPE	<i>Detail to be included later in the implementation phase</i>	Identifies that Report is "Final".
SECONDARY AUCTION ID	<i>Detail to be included later in the implementation phase</i>	The unique Identifier of the Secondary Auction.
CAPACITY PERIOD ID	<i>Detail to be included later in the implementation phase</i>	The unique Identifier of the Capacity Delivery Period.
DELIVERY PERIOD START	<i>Detail to be included later in the implementation phase</i>	The start of the delivery period associated with this Secondary Auction.
DELIVERY PERIOD END	<i>Detail to be included later in the implementation phase</i>	The end of the delivery period associated with this Secondary Auction.
PARTY ID	<i>Detail to be included later in the implementation phase</i>	The unique identifier for the Party (PY_XXXXXX)
PARTICIPANT NAME	<i>Detail to be included later in the implementation phase</i>	The unique identifier for the Participant (PT_XXXXXX)
CMU ID	<i>Detail to be included later in the implementation phase</i>	The unique identifier for the Capacity Market Unit.
PRODUCT ID	<i>Detail to be included later in the implementation phase</i>	The unique Identifier of the Secondary Auction Product.

Field Name	Format	Description
EXCHANGE RATE	<i>Detail to be included later in the implementation phase</i>	The Capacity Exchange Rate used for this Secondary Auction.
AUCTION CLEARING PRICE EUR	<i>Detail to be included later in the implementation phase</i>	The Clearing Price for this Secondary Auction in Euros
AUCTION CLEARING PRICE GBP	<i>Detail to be included later in the implementation phase</i>	The Clearing Price for this Secondary Auction in Sterling
CMU CAPACITY OFFERED	<i>Detail to be included later in the implementation phase</i>	The total quantity offered into the secondary auction by the Capacity Market Unit.
CMU CAPACITY AWARDED	<i>Detail to be included later in the implementation phase</i>	The total capacity awarded in the secondary auction to the Capacity Market Unit
OFFER TYPE	<i>Detail to be included later in the implementation phase</i>	Bid or Offer
OFFER INDEX	<i>Detail to be included later in the implementation phase</i>	One for each Price-Quantity pair in a submitted bid/offer
PRICE	<i>Detail to be included later in the implementation phase</i>	Price of submitted Price-Quantity pair
QUANTITY	<i>Detail to be included later in the implementation phase</i>	Quantity of submitted Price-Quantity pair
AWARD	<i>Detail to be included later in the implementation phase</i>	Capacity award quantity associated with this Price-Quantity pair
AWARD PRICE	<i>Detail to be included later in the implementation phase</i>	Capacity award price associated with this Price-Quantity pair

Table 17: Provisional / Final Participant Secondary Auction Results

Note: The exact format of the CSV download will be included later in the implementation phase.