

The Single Electricity Market (SEM)

Agreed Procedure 6: Data Publication and Data Reporting

Version 10.0

TBC

SEM Agreed Procedure

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| Title | Agreed Procedure 6: Data Publication and Data Reporting |
| Version | 10.0 |
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DOCUMENT HISTORY

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| | | | |
|------|------------|------------------------------------|---|
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| 7.0 | 28/05/2010 | SEMO | SEM Baseline Documentation at V7.0 |
| 7.0 | 27/05/2010 | SEMO | Mod_25_09_V2 Publication of two year generation outage plans |
| 8.0 | 07/10/2010 | SEMO | Mod_34_09 Global Settlement |
| 10.0 | TBC | SEMO | Updated for Intra-Day Trading |

RELATED DOCUMENTS

| Document Title | Version | Date | By |
|---|---------|------------|------|
| Trading and Settlement Code | V8.0 | 19/11/2010 | SEMO |
| Agreed Procedure 3 “Communication Channel Qualification” | | | |
| Agreed Procedure 4 “Transaction Submission and Validation” | | | |
| Agreed Procedure 5 “Data Storage and IT Security” | | | |

1. INTRODUCTION

1.1 BACKGROUND AND PURPOSE

This Agreed Procedure describes the process by which the Market Operator (“MO”) shall, as required by the SEM Trading and Settlement Code (the “Code”), make certain information available to Participants and the general public.

1.2 SCOPE OF AGREED PROCEDURE

This Agreed Procedure sets out:

- the method of Data Publication, including the updating of published information.; and
- that data which the MO is required to make available to certain Participants only (or all of them), and the method by which the MO shall make such data available.

This Agreed Procedure forms part of the Code. The scope of this Agreed Procedure is set out in Appendix L of the Code.

1.3 DEFINITIONS

Save as expressly defined in this Agreed Procedure, words and expressions defined in the Code shall have the same meanings when used in this Agreed Procedure.

References to particular sections relate internally to this Agreed Procedure unless specifically noted.

1.4 COMPLIANCE WITH AGREED PROCEDURE

Parties to the Code are required under the terms of the Code to comply with this Agreed Procedure.

2. DESCRIPTIVE OVERVIEW

2.1 DATA PUBLICATION

The Data Publication process set out in this Agreed Procedure will be the procedure by which the MO discharges the requirements set out in the Code for it to make certain information available to the general public. The Market Operator shall provide such information through the Market Operator Website as set out in this Agreed Procedure.

2.1.1 Elements of Data Publication

Data Publication covers the publication by the Market Operator of the following items:

- **Items and Data Record Publication:** - The Market Operator will publish such data as the Code requires it to publish in a timely manner after it has been received by the Market Operator or calculated by the Market Operator in accordance with the timings specified in the report listing in Appendix E of the Code, or elsewhere in the Code.
- **Code Publication:** The Code, including the Appendices to the Code and the associated Agreed Procedures, sets out the rules and procedures that govern the operation of the Single Electricity Market ("SEM"). The Market Operator will publish the latest version of the Code, and shall update such published version, in accordance with and to the timelines as set out in the Code.
- **Updating Publications:** In cases where data that is required by the Code to be published by the Market Operator has been recalculated by the Market Operator or re-submitted to the Market Operator after being updated, improved, or corrected, the Market Operator must publish the updates in a timely manner. This document details how the Market Operator will publish such updates and allow the original publication to be distinguished from any updated publication.

2.2 DATA REPORTING

The Data Reporting process set out in this Agreed Procedure will be the procedure by which the MO discharges the requirements set out in the Code for it to make certain information available to a specific Participant. The MO shall provide such information through the Market Participant Interface (MPI), as set out in this Agreed Procedure.

2.2.1 Elements of data Reporting

Data Reporting covers the making available, by the MO to certain Participants only (or all of them), data reports as set out in Appendix 2 – Report Listing.

2.3 MARKET DATA CLASSIFICATIONS

The Code and this Agreed Procedure set out a number of timelines, each of which is applicable to Data Publication and / or Data Reporting of Market Data. In this Agreed Procedure, Market Data will be categorised according to the applicable timeline, which will be one of:

- Updated periodically as required
- Updated annually and as required
- Updated monthly
- Updated daily in advance of the EA1 Gate Window Closure
- Updated daily following the EA1 Gate Window Closure and prior to the EA2 Gate Window Closure
- Updated daily following the EA2 Gate Window Closure and prior to the WD1 Gate Window Closure

- Updated daily on Trading Day, following the WD1 Gate Window Closure
- Updated daily post Trading Day
- Updated on a Capacity Period basis post end of Capacity Period
- Ad-hoc Reports

2.4 PUBLIC AND PRIVATE DATA

Market Data will be categorised as either:

- Private Data Reports are individual reports generated for certain Participants only (or all of them). These reports shall be made available by the MO via the MPI on the basis that access to such reports shall only be available to the relevant recipients in accordance with the access rules detailed in Agreed Procedure 5 “Data Storage and IT Security”.
- Public Data Reports will at a minimum consist of such market information, market prices and volumes, forecasted data, and current system data that are required by the Code to be made available by the MO to the general public via the MO website. The MO shall not require that such access is conditional upon the relevant user possessing a Digital Certificate. In addition, the MO shall provide Participants with access to a subset of these publications through the MPI, in accordance with the access rules detailed in Agreed Procedure 5 “Data Storage and IT Security”.

Some elements of Market Data shall first be subject to Data Reporting (and shall for this purpose be Private Data), and shall subsequently be required to be published by the MO (and shall upon such become Public Data). The timing and format of such Data Reporting and then Data Publication is set out in this Agreed Procedure and the Code.

Confidential Information, if made available through a report, will only be made available through Private Data reports for a single Participant.

The Market Operator shall not be obliged to publish any material that it reasonably believes may be of an obscene or libellous nature.

3. PROCEDURE DEFINITION

3.1 INTRODUCTION

This section considers the different types of reports and publications, the arrangements for notifying the intended recipients of the reports and publications, access to the reports and publications, the timing of reporting or publication and their update arrangements.

The reports and publications within the groupings described in this section are identified in “Appendix 2 – Report Listing” of this Agreed Procedure.

The publication and report type is listed below. Information on each report type is described later in this section.

- Data reporting
- Data publication
- Market reports
- Settlement reports
- Other reports

3.2 ITEMS AND DATA RECORD PUBLICATION

Market Data will be published at varying frequencies as required in the Code. Data will be published daily, weekly, monthly, annually, or on an ad-hoc basis.

3.3 UPDATING PUBLICATIONS AND REPORTS

In cases where data that has been published by the MO is re-submitted to the MO after being updated, improved, or corrected, the MO will publish the updates as soon as reasonably practicable, or as otherwise required by the Code.

In the event that the MO is required under the Code to re-process any data, and such reprocessing results in changes to any report that has already been made available by the MO, the MO shall issue a revised version of such report as soon as reasonably practicable or as otherwise required by the Code.

3.4 DATA REPORTING

3.4.1 Definition

Data Reporting is the term given to the provision of reports that contain data that is available to a specific Participant (or all of them) and is confidential to that Participant (or all of them). Data Reports may consist of either market reports or settlement reports.

3.4.2 Scheduled and Requested Reports

Scheduled Data Reports are published to strict timelines as described in Appendix 2 – Report Listing of this Agreed Procedure. Requested reports shall be responded to by the Market Operator as soon as practicable.

3.4.3 Notification

For the purpose of Data Reporting, the Market Operator shall make data available to a specific Participant for download from the MPI, and shall notify the relevant Participant that such data is available for download by posting a message in that Participant’s messaging window on the MPI. Access to such reports shall only be available to Participants in accordance with the access rules detailed in Agreed Procedure 5 “Data Storage and IT Security”.

3.4.4 Viewing and Access

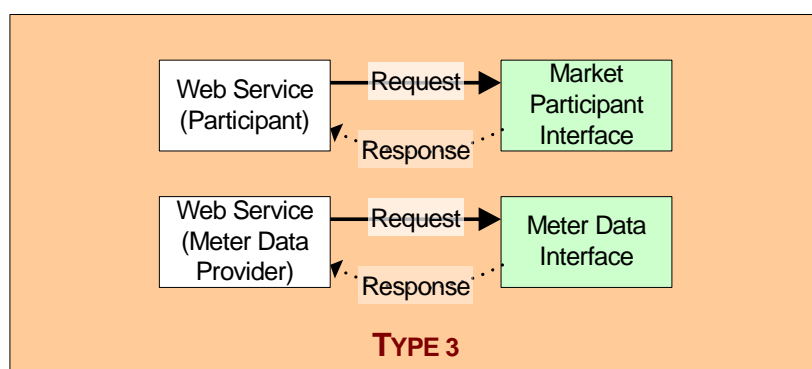
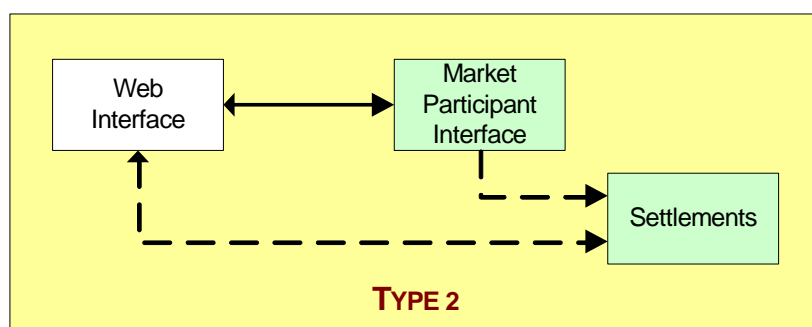


Figure 1: Messaging Architecture - Logical Overview

Figure 1 above is an overview of both the Type 2 and Type 3 Channels

All connections are initiated external to the SEM systems – i.e. by Market Participants, Meter Data Providers, etc. – and operate in a synchronous request-response mode. With Type 2, the Market Participant user connects to the Market Participant Interface and is authorised by selecting the appropriate Digital Certificate¹. From here they can select one of the following options²: Trading; Registration; Reports; File Exchange; or Settlements. For Type 3, all Participant communication is to the Market Participant Interface while Meter Data Providers connect to the Meter Data Interface.

The technology behind the Market Participant Interface is Java based, while the Settlements and Meter Data Interface are developed on Microsoft's .NET platform. All data submitted to SEM is required to be in XML format. All data published will be in either PDF, CSV, XLS, XML, or HTML formats.

3.4.5 Viewing Type 2 and Type 3 Channels

The Type 2 Channel is screen based, to provide a human-to-computer interface. These requests, other than settlement reports, are processed by the same web service as is used for the Type 3 Channel. Type 3 Channels use web services to provide an automated, computer-to-computer interface

In certain cases, the Type 2 Channel (screens) may have additional configuration to appropriately present the information returned by the Web Service. Some additional information is available via the Type 2 Channel that is not available on Type 3:

- On accessing the Market Participant Interface from an internet browser session, three separate windows are presented

1 Refer to Agreed Procedure 3 "Communication Channel Qualification" for guidelines on Digital Certificate usage

2 Agreed Procedure 1 "Participant & Unit Registration and Deregistration"

- The first is the functional screen which provides identical operations and information to the Type 3 Channel
- The second presents a list of Market Submission Windows which are open, relative to Market Interface Transactions. This is only available on the Type 2 Channel
- The third is a Market Messages window. This is used by the Market Operator to provide information to Participants and also has an entry each time a report event occurs (report available). These messages may be Market Public – visible by all Participants, or Participant Private – only visible by a specific Participant. This is only available on the Type 2 Channel.

3.4.6 Security

Agreed Procedure 3 “Communication Channel Qualification” and Agreed Procedure 5 “Data Storage and IT Security” detail the security and access requirements of the Market Operator’s Isolated Market System.

3.4.7 Report Updates

In the event that the MO is required under the Code to re-process any data, and such reprocessing results in changes to any report that has already been made available by the MO, the MO shall issue a revised version of such report as soon as reasonably practicable or as otherwise required by the Code.

3.5 DATA PUBLICATIONS

3.5.1 Definition

Data Publications consist of such market information, market prices and volumes, forecasted data, and current system data that are required by the Code to be made available by the MO to the general public. Data Publications may consist of either market reports or settlement reports.

3.5.2 Scheduled Reports

Data Publications are only available as Scheduled Reports. They are published according to strict timescales defined in Appendix E of the Code and reproduced in Appendix 2 – Report Listing of this Agreed Procedure.

3.5.3 Notification

The MO shall provide access to these reports through the MO Website and, where appropriate, also through the MPI. In the case of publication of reports via the MO Website, the MO shall not require that such access is conditional upon the relevant user possessing a Digital Certificate.

3.5.4 Viewing and Access

The viewing of publications online shall be carried out by selecting the appropriate menu item on the MO Website, and by specifying the required report.

3.5.5 Publication Updates

In the event that the MO is required under the Code to re-process any publications, and such reprocessing results in changes to any publication that has already been made available by the MO, the MO shall issue a revised version of such publication as soon as reasonably practicable or as otherwise required by the Code.

3.6 MARKET REPORTS

3.6.1 Availability

Daily and weekly reports will be available through this channel for up to a Month following their initial posting by the MO. Monthly and annual reports will be available through this channel for up to two years following their initial posting by the MO. For Participants requiring older data they may submit a request to the Help Desk, and the MO shall provide such reports that it is able to provide subject to its data retention obligations set out in the Code.

Participants may submit a request for specific Market Data through the MPI. Participants may request Market Data for one day or one interval at a time. They may also request data for any of their registered Units for a given Trading Day or contiguous set of Trading Days.

3.6.2 Updates

With respect to market reports it will be indicated within the name of the report whether it is an indicative or initial report. The time at which the report was created will form part of the timestamp of the message. If an event is rerun in order to recreate a report, the original report will be overwritten. Each time a report is created or recreated a message will be sent to the MPI to inform the Participants that the report is available.

3.7 SETTLEMENT REPORTS

3.7.1 Availability

The Participant may request Settlement data through the MPI. The data available should provide the Participants with sufficient information to validate their Settlement Statements. Settlement files are available in the following formats:

- Statements – CSV
- Reports – CSV
 - Participant Information Report (PIR)
 - Settlement Reallocation
- Invoices– XML

Daily and weekly settlement reports will be available through the Type 3 Channel for up to a Month following their initial posting by the MO. Monthly and annual reports will be available through the Type 3 Channel for up to two years following their initial posting by the MO. For Participants requiring older data they may submit a request to the Help Desk, and the MO shall provide such reports that it is able to provide subject to its data retention obligations set out in the Code.

3.7.2 Updates

When the Participants request Settlement data from the MPI, the naming convention used will indicate which type of report they have received. File Naming Convention is as follows:

- “Market”_PIR_”Participant”_”Type”_”Settlement Date”.csv

Where:

- “Market” – Market abbreviation
 - ☐ EN – energy market
 - ☐ CA – capacity
 - ☐ MO – Market Operator Charges Market
- “Report” – is “PIR”

- “type” – settlement type
 - ☐ INDICATIVE – indicative run
 - ☐ INITIAL – initial run
- “date” – settlement date in “YYYY-MM-DD” numeric format

3.8 OTHER REPORTS

Pre-defined Public Data reports will consist of market prices and volumes, forecasted data, and current system data, in all cases that the MO is required under the Code to publish. The MO shall publish each according to the relevant timeline in the Code.

Participants may request data from the Market Operator’s Isolated Market Systems as detailed in Agreed Procedure 4 “Transaction Submission and Validation.”

APPENDIX 1: DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

| | |
|---|---|
| Appendix | As defined in the Code |
| Report Manager | Part of the Market Web Interface which is used to control the frequency and format of market reports |
| Active Interconnector Unit Export Capacity Holding | As defined in the Code |
| Active Interconnector Unit Import Capacity Holding | As defined in the Code |
| Agreed Procedure | As defined in the Code |
| Annual Capacity Payment Sum | As defined in the Code |
| Audit Report | As defined in the Code |
| Autonomous Generator Unit | As defined in the Code |
| Available Transfer Capacity | As defined in the Code |
| Billing Period | As defined in the Code |
| Capacity Charge | As defined in the Code |
| Capacity Payment | As defined in the Code |
| Capacity Period | As defined in the Code |
| Capacity Period Payment Sum | As defined in the Code |
| Code | As defined in the Code |
| Combined Loss Adjustment Factor | As defined in the Code |
| Confidential Information | As defined in the Code |
| Constraint Payment | As defined in the Code |
| Data Publication | The provision of the most relevant and recent information to the general public through the MO Website and also, where appropriate, making a subset of the same information available to Participants only through the MPI. |
| Data Reporting | The process used by the MO to report data to certain Participants only (or all of them) |

| | |
|--|--|
| Dispatch Instruction | As defined in the Code |
| Distribution Loss Adjustment Factor | As defined in the Code |
| Eligible Availability | As defined in the Code |
| Energy Charge | As defined in the Code |
| Energy Payment | As defined in the Code |
| Engineering Tolerance | As defined in the Code |
| Ex-Ante Indicative Market Schedule | As defined in the Code |
| Ex-Post Indicative Market Schedule | As defined in the Code |
| Gate Closure | As defined in the Code |
| Generator | As defined in the Code |
| Generator Unit | As defined in the Code |
| Generic Settlement Class | As defined in the Code |
| Help Desk | As defined in Agreed Procedure 11 “Market System Operation, Testing, Upgrading and Support” |
| Imperfections Charge | As defined in the Code |
| Imperfections Price | As defined in the Code |
| Initial Settlement Statement | As defined in the Code |
| Interconnector | As defined in the Code |
| Interconnector Error Unit | As defined in the Code |
| Interconnector Unit | As defined in the Code |
| Interconnector Unit Nominations | As defined in the Code |
| Invoice | As defined in the Code |
| Isolated Market System | As defined in the Code |
| Loss of Load Probability | As defined in the Code |
| Make Whole Payment | As defined in the Code |
| Market Data | Information relating to the operation of the Single Electricity Market and which the MO is required to publish, or make available to one or more Participants, pursuant to the Code and this Agreed Procedure. |

| | |
|---|--|
| Market Operator | As defined in the Code |
| Market Operator Charge | As defined in the Code |
| Market Web Interface | As defined in Agreed Procedure 4 “Transaction Submission and Validation” |
| Meter Data | As defined in the Code |
| Meter Data Provider | As defined in the Code |
| Metered Demand | As defined in the Code |
| MO Website | As defined in Agreed Procedure 1 “Participant and Unit Registration and Deregistration” |
| Modification | As defined in the Code |
| Modification Proposal | As defined in the Code |
| Modified Interconnector Unit Nominations | As defined in the Code |
| Month | As defined in the Code |
| Market Participant Interface | As defined in Agreed Procedure 1 “Participant and Unit Registration and Deregistration” |
| MW Tolerance | As defined in the Code |
| Participant | As defined in the Code |
| Participant Information Report | A report that provides a Participant with information of the energy delivered or consumed at each defined interval |
| Party | As defined in the Code |
| Price | As defined in the Code |
| Price Maker Generator Unit | As defined in the Code |
| Price Taker Generator Unit | As defined in the Code |
| Private Data | Individual reports generated for certain Participants only (or all of them) and made available by the MO via the MPI |
| Public Data | Market information, market prices and volumes, forecasted data, and current system data required by the Code to be published by the MO targeted for the general public |

| | |
|--|---|
| Reallocation Report | A report that provides a Participant with details of each validated Settlement Reallocation Agreement |
| Regulatory Authorities | As defined in the Code |
| Self Billing Invoice | As defined in the Code |
| Settlement | As defined in the Code |
| Settlement Statement | As defined in the Code |
| Single Electricity Market | As defined in the Code |
| Supplier | As defined in the Code |
| Supplier Unit | As defined in the Code |
| System Marginal Price | As defined in the Code |
| System Operator | As defined in the Code |
| Tariff Year | As defined in the Code |
| Trading Day | As defined in the Code |
| Trading Period | As defined in the Code |
| Transmission Loss Adjustment Factor | As defined in the Code |
| Week | As defined in the Code |
| Working Day | As defined in the Code |
| Year | As defined in the Code |

ABBREVIATIONS

| | |
|---------------|------------------------------|
| ATC | Available Transfer Capacity |
| BP | Billing Period |
| CP | Capacity Period |
| ENGTOl | Engineering Tolerance |
| MDP | Meter Data Provider |
| MO | Market Operator |
| MPI | Market Participant Interface |
| MWTOLh | MW Tolerance |
| NI | Northern Ireland |

| | |
|--------------|---------------------------------------|
| Ptcpt | Participant |
| RA | Regulatory Authorities |
| SEM | Single Electricity Market |
| SMP | System Marginal Price |
| SO | System Operators |
| SONI | Systems Operator for Northern Ireland |
| TD | Trading Day |
| UREG | System per Unit Regulation parameter |
| WD | Working Day |

APPENDIX 2: REPORT LISTING

LEGENDS

Please use supplied legends when interpreting the subsequent report listing.

| Classification | Description |
|----------------|--|
| A | Updated periodically as required |
| B | Updated annually and as required |
| C | Updated monthly |
| D | Updated daily in advance of the EA1 Gate Window Closure |
| E | Updated daily following the EA1 Gate Window Closure and prior to the EA2 Gate Window Closure |
| F | Updated daily following the EA2 Gate Window Closure and prior to the WD1 Gate Window Closure |
| G | Updated daily on Trading Day, following the WD1 Gate Window Closure |
| H | Updated daily post Trading Day |
| I | Updated on a Capacity Period basis post end of Capacity Period |
| J | Ad-hoc Reports |

| Subscript | Description |
|-----------|---------------------------------------|
| h | Per Trading Period |
| b | Per Billing Period |
| d | Per Trading Day |
| c | Per Capacity Period |
| p | Per Participant |
| y | Per Year |
| uh | Per Generator Unit per Trading Period |
| pb | Per Participant per Billing Period |

| Subscript | Description |
|-----------|---------------------------------------|
| vh | Per Supplier Unit per Trading Period |
| vc | Per Supplier Unit per Capacity Period |

DATA PUBLICATIONS

The following list identifies each Data Publication that is published to the general public via the MO Website and whether it is also reported to Participants via the MPI. When a report of the same name as set out in Appendix E is updated, and the information contained within those reports is generated by Market Operators Isolated Market System, the previously Published report of the same name will be overwritten by the new Publication.

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | General Public via MPI | Confidentiality | Validity |
|---|-------|------------------------|-----------|--------------------------|------------------------|-----------------|----------|
| The Code and Agreed Procedures | A | As defined in the Code | - | Y | | Public Data | |
| Proposal Notice | A | As defined in the Code | - | Y | | Public Data | |
| Consultation on Proposal Notice | A | As defined in the Code | - | Y | | Public Data | |
| Responses to Consultation on Proposal Notice | A | As defined in the Code | - | Y | | Public Data | |
| Further Information on Proposal Notice | A | As defined in the Code | - | Y | | Public Data | |
| Final Recommendation Report | A | As defined in the Code | - | Y | | Public Data | |
| Regulatory Authority decision on Final Modification Recommendation | A | As defined in the Code | - | Y | | Public Data | |
| List of Parties, Participants and each of their Generator Units and Supplier Units | A | As defined in the Code | - | Y | | Public Data | |
| Making or Lifting of a Suspension Order | A | As defined in the Code | - | Y | | Public Data | |
| Termination Order | A | As defined in the Code | - | Y | | Public Data | |
| Generator Unit Under Test Notice | A | As defined in the Code | - | Y | | Public Data | |
| Proposed Market Operator Isolated Market System Testing Schedule | A | As defined in the Code | - | Y | | Public Data | |
| Details of the Accession Fees and Participation Fees | A | As defined in the Code | - | Y | | Public Data | |
| Date of the next meeting of the Modifications Committee | A | As defined in the Code | - | Y | | Public Data | |
| Supplier Suspension Delay Period | A | As defined in the Code | - | Y | | Public Data | |
| Members and chairperson of the Modification Committee | A | As defined in the Code | - | Y | | Public Data | |
| Calculations and methodology used by the Market Operator during Administered Settlement | A | As defined in the Code | - | Y | | Public Data | |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | General Public via MPI | Confidentiality | Validity |
|---|-------|------------------------|-----------|--------------------------|------------------------|-----------------|----------|
| Registered Capacity | A | As defined in the Code | - | Y | | Public Data | |
| Uplift Alpha, Uplift Beta, Uplift Delta | A | As defined in the Code | - | Y | | Public Data | |
| | | | | | | | |
| System per Unit Regulation | B | As defined in the Code | | Y | | Public Data | |
| Annual Capacity Exchange Rate | B | As defined in the Code | y | Y | | Public Data | |
| Annual Load Forecast (by Jurisdiction) | B | As defined in the Code | y | Y | | Public Data | |
| Annual Capacity Payment Sum | B | As defined in the Code | y | Y | | Public Data | |
| Market Price Cap | B | As defined in the Code | y | Y | | Public Data | |
| Market Price Floor | B | As defined in the Code | y | Y | | Public Data | |
| Value of Lost Load | B | As defined in the Code | y | Y | | Public Data | |
| Fixed Market Operator Charge (Supplier Unit) | B | As defined in the Code | vy | Y | | Public Data | |
| Fixed Market Operator Charge (Generator Unit) | B | As defined in the Code | uy | Y | | Public Data | |
| Variable Market Operator Price | B | As defined in the Code | y | Y | | Public Data | |
| Capacity Period Payment Sum | B | As defined in the Code | c | Y | | Public Data | |
| Fixed Capacity Payment Proportion | B | As defined in the Code | y | Y | | Public Data | |
| Ex-Post Capacity Payment Proportion | B | As defined in the Code | y | Y | | Public Data | |
| Engineering Tolerance | B | As defined in the Code | | Y | | Public Data | |
| MW Tolerance | B | As defined in the Code | t | Y | | Public Data | |
| System per Unit Regulation Parameter | B | As defined in the Code | | Y | | Public Data | |
| Discount for Over Generation and Premium for Under Generation | B | As defined in the Code | uh | Y | | Public Data | |
| Fixed Capacity Payments Weighting Factor for each Trading Period in the relevant Year | B | As defined in the Code | h | Y | | Public Data | |
| Terms of Reference for Market Operator Audit | B | As defined in the Code | - | Y | | Public Data | |
| Audit Report | B | As defined in the Code | - | Y | | Public Data | |
| Transmission Loss Adjustment Factors | B | As defined in the Code | uh | Y | | Public Data | |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | General Public via MPI | Confidentiality | Validity |
|---|-------|------------------------|-----------|--------------------------|------------------------|-----------------|----------|
| Imperfections Price | B | As defined in the Code | y | Y | | Public Data | |
| Imperfections Charge Factor | B | As defined in the Code | | Y | | Public Data | |
| Testing Tariff | B | As defined in the Code | uh | Y | | Public Data | |
| Settlement Calendar | B | As defined in the Code | - | Y | | Public Data | |
| Schedule of Testing Tariffs | B | As defined in the Code | | Y | | Public Data | |
| Residual Meter Volume Interval Proportion | B | As defined in the Code | v | Y | | Public Data | |
| Fixed Credit Requirement | B | As defined in the Code | y | Y | | Public Data | |
| Historical Assessment Period for the Billing Period | B | As defined in the Code | - | Y | | Public Data | |
| Historical Assessment Period for the Capacity Period | B | As defined in the Code | - | Y | | Public Data | |
| Analysis Percentile Parameter | B | As defined in the Code | - | Y | | Public Data | |
| Credit Cover Adjustment Trigger | B | As defined in the Code | - | Y | | Public Data | |
| Default level of Warning Limit | B | As defined in the Code | - | Y | | Public Data | |
| Annual Maintenance Schedule - Transmission Line Outages | B | As defined in the Code | - | Y | | Public Data | |
| Two Year Maintenance Schedule - Generator Outages Schedule | B | As defined in the Code | - | Y | | Public Data | |
| Flattening Power Factor | B | As defined in the Code | - | Y | | Public Data | |
| Combined Loss Adjustment Factors | B | As defined in the Code | uh | Y | | Public Data | |
| Distribution Loss Adjustment Factors | B | As defined in the Code | uh | Y | | Public Data | |
| | | | | | | | |
| Market Operator report (paragraph 2.144) | C | As defined in the Code | - | Y | | Public Data | |
| Monthly Maintenance Schedule – Generator Unit outages | C | As defined in the Code | - | Y | | Public Data | |
| Monthly Maintenance Schedule – Transmission System line outages | C | As defined in the Code | - | Y | | Public Data | |

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|---|-------|--|-----------|--------------------------|------------------------|-----------------|----------|
| Monthly Load Forecast and Assumptions | C | By 10:00, at least one Working Day before start of Month | - | Y | Y | Public Data | |
| Margin | C | By 10:00, at least five Working Days before start of Month | h | Y | | Public Data | |
| Loss of Load Probability for each Trading Period in the relevant Month | C | By 10:00, at least five Working Days before start of Month | h | Y | Y | Public Data | |
| Variable Capacity Payments Weighting Factor for each Trading Period in the relevant Month | C | At 10:00, at least five Working Days before start of Month | h | Y | | Public Data | |
| Reports on progress and status of Modification Proposals | C | At least once every four Months | - | Y | | Public Data | |
| | | | | | | | |
| Daily Actual Load Summary (D+1) | D | One day after Trading Day at 16:00 | - | Y | Y | Public Data | |
| Daily Actual Load Summary (D+4) | D | Four days after Trading Day at 16:00 | - | Y | Y | Public Data | |
| Daily Trading Day Exchange Rate | D | By 08:00 pre Gate Closure on TD -1 | - | Y | Y | Public Data | |
| Daily Interconnector ATC | D | By 10:00 on the day prior to Gate Closure | | Y | Y | Public Data | |
| Daily Four Day Rolling Load Forecast and Assumptions | D | By 09:30 pre Gate Closure on TD-1 | - | Y | Y | Public Data | |
| Any important updates to Maintenance Schedule(Generator and Transmission) Data Transaction (Appendix J) | D | As defined in the Code | - | Y | | Public Data | |
| Two Day Rolling Wind Power Unit Forecast aggregated by Jurisdiction | D | As Available, every six hours | - | Y | Y | Public Data | |
| | | | | | | | |
| Ex-Ante Market Schedule Summary | E | Daily, post gate closure | - | Y | Y | Public Data | |

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|--|-------|---|-----------|--------------------------|------------------------|-----------------|----------|
| | | and before Trading Day at 13:00 | | | | | |
| | | | | | | | |
| Technical Offer Data Transactions | G | Day after Trading Day at 14:00 | | Y | | Public Data | |
| Aggregate Interval Net Demand | G | As defined in the Code | eh | Y | N | Public Data | |
| Aggregate Non Interval Net Demand | G | As defined in the Code | eh | Y | N | Public Data | |
| Commercial Offer Data Transactions | G | Day after Trading Day at 14:00 | | Y | | Public Data | |
| Demand Control Data Transaction | G | Day after Trading Day by 14:00 | - | Y | | Public Data | |
| Daily Jurisdiction Error Supply MWh | G | 15 Days after the Trading Day by 17:00 | h | Y | Y | Public Data | |
| Interconnector Available Transfer Capacities | G | Day after Trading Day at 15:00 | lh | Y | Y | Public Data | |
| Interconnector Capacity Active Holdings | G | One Working Day after Trading Day, by 15:00, and as updated | - | Y | Y | Public Data | |
| Modified Interconnector Unit Nominations | G | Day after Trading Day, by 15:00 | - | Y | | Public Data | |
| Ex-Ante Indicative Market Schedule | G | Day after Trading Day, by 15:00 | - | Y | | Public Data | |
| Ex-Ante Indicative Operations Schedule | G | Day after Trading Day, by 16:00 | - | Y | | Public Data | |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | General Public via MPI | Confidentiality | Validity |
|--|-------|---|-----------|--------------------------|------------------------|-----------------|---|
| Generator Unit Technical Characteristics Data Transaction | G | Day after Trading Day, by 16:00 | - | Y | | Public Data | |
| Energy Limited Generator Unit Technical Characteristics Data Transaction | G | Day after Trading Day, by 16:00 | - | Y | | Public Data | |
| Daily Dispatch Instructions | G | Day after Trading Day, by 16:00 | - | Y | | Public Data | |
| SO Interconnector Trades | G | Day after Trading Day, by 16:00 | lh | Y | | Public Data | |
| All Price-affecting Metered Data, excluding Trading Site Supplier Units for Trading Sites with Non-firm Access for all available Trading Periods | G | Day after Trading Day, by 15:00 | Uh | Y | | Public Data | |
| Net Inter Jurisdictional Import for all available Trading Periods | G | One Working Day after Trading Day, by 17:00, and as updated | eh | Y | | Public Data | |
| Indicative Tolerance for Over Generation and Tolerance for Under Generation | G | Two Working Days after Trading Day, by 17:00 | uh | Y | | Public Data | |
| Initial Tolerance for Over Generation and Tolerance for Under Generation | G | Five Working Days after Trading Day at 17:00 | uh | Y | | Public Data | |
| Indicative Dispatch Offer Price | G | Two Working Days after Trading Day, by 17:00 | uh | Y | | Public Data | |
| Initial Dispatch Offer Price | G | Five Working Days after Trading Day, by 17:00 | uh | Y | | Public Data | |
| Ex-Post Indicative Market Schedule Quantity | G | Day after Trading Day, by 17:00 | uh | Y | | Public Data | Valid only until Ex-Post Initial Market Schedule published on D+4 |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | General Public via MPI | Confidentiality | Validity |
|---|-------|---|-----------|--------------------------|------------------------|-----------------|---|
| Initial Market Schedule Quantity | G | Four days after Trading Day, by 17:00 | uh | Y | | Public Data | |
| Ex-Post Indicative SMPs | G | Day after Trading Day, by 16:00 | h | Y | Y | Public Data | Valid only until Ex-Post Initial Market Schedule published on D+4 |
| Initial SMPs | G | Four days after Trading Day, by 17:00 | h | Y | Y | Public Data | |
| Daily SO System Frequency, NORFRQ, AVGFRQ | G | One Working Day after Trading Day, by 17:00 | h | Y | Y | Public Data | |
| Ex-Post Indicative Energy Payments to Generator Units | G | Two Working Days after Trading Day, by 17:00 | h | Y | | Public Data | |
| Ex-Post Initial Energy Payments to Generator Units | G | Five Working Days after Trading Day, by 17:00, and as updated at 17:00 the day of recalculation | h | Y | | Public Data | |
| Capacity Adjustment Factor applicable for Undefined Exposure Period for Billing Periods | G | Each Working Day by 17:00 | - | Y | | Public Data | |
| Credit Assessment Price for the Undefined Exposure Period for the Billing Periods | G | Each Working Day by 17:00 | - | Y | | Public Data | |
| Estimated Capacity Price for the Undefined Exposure Period for Capacity Periods, ECP | G | Each Working Day, by 17:00 | θ | Y | | Public Data | |
| Metered Generation, MG | G | One Working Day after Trading Day, by 17:00 | uh | Y | Y | Public Data | |

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|--|-------|---|-----------|--------------------------|------------------------|-----------------|----------|
| Ex-Post Indicative Capacity Payments to each Generator Unit, | H | Three Working Days after end of Capacity Period, by 17:00 | uh | Y | | Public Data | |
| Initial Capacity Payments to each Generator Unit, | H | Seven Working Days after end of Capacity Period, by 12:00 | uh | Y | | Public Data | |
| Indicative Eligible Availability | H | Three Working Days after Capacity Period, by 17:00 | uh | Y | | Public Data | |
| Initial Eligible Availability | H | Seven Working Days after Capacity Period, by 12:00 | uh | Y | | Public Data | |
| Indicative Ex-Post Capacity Payments Weighting Factor | H | Three Working Days after end of Capacity Period, by 17:00 | h | Y | | Public Data | |
| Initial Ex-Post Capacity Payments Weighting Factor | H | Seven Working Days after end of Capacity Period, by 12:00 | h | Y | | Public Data | |
| | | | | | | | |
| Initial Ex-Post Margin | H | Seven Working Days after end of Capacity Period, by 12:00 | h | Y | | Public Data | |
| Initial Ex-Post Loss of Load Probability | H | Seven Working Days after end of Capacity Period, at 12:00 | h | Y | Y | Public Data | |
| Forecast of Ex-Post Loss of Load Probability | H | Daily, post gate closure and before Trading Day and 16:30 | H | Y | Y | Public Data | |

DATA REPORTS

The following list identifies each Data Report produced as scheduled reports exclusively for Participants via the MPI.

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | Published via MPI | Confidentiality | Validity |
|--|-------|--|-----------|--------------------------|-------------------|-----------------|----------|
| List of Active Units | A | As updated | - | | Y | Member Public | |
| List of Active Market Participants | A | As updated (within two days of a successful application) | - | | Y | Member Public | |
| List of Active Market Participants and Units | A | As updated (within two days of a successful application) | - | | Y | Member Public | |
| List of Suspended/Terminated Market Participants | A | As updated (at least within two days of issue) | - | | Y | Member Public | |
| | | | | | | | |
| Monthly Updates to Settlement Class | C | At 10:00 at least one Working Day before start of Month | - | | Y | Member Private | |
| | | | | | | | |
| Daily Load Forecast Summary | D | Daily, pre Gate Closure, by 12:00 | - | | Y | Member Public | |
| Ex-Ante Indicative Shadow Price (SPh) | D | One day before Trading day by 13:00 | N | | Y | Private Data | |
| Ex-Post Indicative Shadow Price (SPh) | D | One day after Trading day by 16:00 | N | | Y | Private Data | |
| Ex-Post Initial Shadow Price (SPh) | D | Four days after Trading day by 13:00 | N | | Y | Private Data | |
| | | | | | | | |
| | | | | | | | |
| Ex-Ante Interconnector User Nominations | E | Daily, post gate closure and before Trading Day by 11:00 | - | | Y | Member Private | |
| Modified Interconnector User Nominations | E | Daily, post gate closure and before Trading Day by 12:00 | - | | Y | Member Private | |
| Ex-Ante Market Schedule Detail | E | Daily, post gate closure and before Trading Day by 13:00 | - | | Y | Private Data | |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | Published via MPI | Confidentiality | Validity |
|---|-------|---|-----------|--------------------------|-------------------|-----------------|---|
| Ex-Ante Indicative Actual Schedule | E | Daily, post gate closure and before Trading Day by 16:00 | - | | Y | Member Private | |
| Available Credit Cover | E | Following successful completion of each Ex-Ante One MSP Software Run | pr | | Y | Private Data | Valid until the next Available Credit Cover Report is produced |
| Available Credit Cover | F | Following successful completion of each Ex-Ante Two MSP Software Run | pr | | Y | Private Data | Valid until the next Available Credit Cover Report is produced |
| Required Credit Cover | F | Each Working Day, by 14:30 | pr | | Y | Private Data | Valid until the next Required Cover Report is produced |
| Available Credit Cover | G | Following successful completion of each Within Day One MSP Software Run | pr | | Y | Private Data | Valid until the next Available Credit Cover Report is produced |
| Daily Indicative Ex-Post Market Schedule Summary | G | One day after Trading day, by 16:00 | - | | Y | Member Public | |
| Daily Initial Ex-Post Market Schedule Summary | G | Four days after Trading Day, by 16:00 | - | | Y | Member Public | |
| Indicative Interconnector Flows and Residual Capacity | G | One day after Trading Day, by 16:00 | - | | Y | Member Public | |
| Initial Interconnector Flows and Residual Capacity | G | Four days after Trading Day, by 16:00 | - | | Y | Member Public | |
| Ex-Post Indicative Energy Payments to Generator Units | G | One Working Day after Trading Day, at 17:00 | uh | | Y | Private Data | Valid only until Initial invoice is created at 12:00 four days after Billing Period |
| Indicative Energy Charges to Supplier Units | G | One Working Day after Settlement Day at 17:00 | vh | | Y | Private Data | Valid only until Initial invoice is created at 12:00 |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | Published via MPI | Confidentiality | Validity |
|--|-------|--|-----------|--------------------------|-------------------|-----------------|---|
| | | | | | | | four days after Billing Period |
| Settlement Reallocation Data Transaction | G | Five Workings Days after end of Billing Period, at 12:00 | p | | Y | Private Data | Valid only until Initial invoice is created at 12:00 four days after Billing Period |
| Ex-Post Initial Energy Payments to Generator Units | G | Five Working Days after Settlement Day, by 12:00 | uh | | Y | Private Data | Valid only until revised invoice is created at four Months and thirteen Months after Billing Period |
| Initial Energy Charges to Supplier Units | G | Five Working Days after Settlement Day, by 12:00 | - | | Y | Private Data | Valid only until revised Invoice is created at four Months and thirteen Months after Billing Period |
| Daily Indicative Ex-Post Market Schedule by Market Participant | G | One day after Trading day by 16:00 | | | Y | Private Data | Valid only until Ex-Post Initial Market Schedule published by 16:00 four days after Trading Day |
| Daily Initial Ex-Post Market Schedule by Market Participant | G | Four days after Trading Day by 16:00 | | | Y | Private Data | |
| Daily Meter Data Detail D+1 (Price Effecting) | G | One day after Trading day by 17:00 | | | Y | Private Data | |
| Daily Meter Data Detail D+3 (Price Effecting) | G | Three days after Trading day by 17:00 | | | Y | Private Data | |
| | | | | | | | |
| Daily Ex-Post Indicative Interconnector Nominations | G | One day after Trading day by 16:00 | | | Y | Private Data | |
| Daily Ex-Post Initial Interconnector Nominations | G | Four days after Trading Day by 16:00 | | | Y | Private Data | |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | Published via MPI | Confidentiality | Validity |
|---|-------|--|-----------|--------------------------|-------------------|-----------------|--|
| Daily Revised Interconnector Modified Nominations | G | One day after Trading Day by 16:00. Updated as available | | | Y | Private Data | |
| Daily Jurisdiction Error Supply MWh | G | 15 Days after the Trading Day by 17:00 | h | Y | Y | Public Data | |
| | | | | | | | |
| Available Credit Cover | H | Following successful completion of each Ex-Post Indicative MSP Software Run and Ex-Post Initial MSP Software Run | pr | | Y | Private Data | Valid until next Available Credit Cover Report is produced |
| Indicative Ex-Post Capacity Payments Weighting Factor | H | Three Working Days after end of Capacity Period, at 17:00 | h | | Y | Private Data | Valid only until the initial is available, five Working Days after the end of each Capacity Period |
| Ex-Post Indicative Capacity Payments to each Generator Unit | H | Three Working Days after end of Capacity Period, at 17:00 | uh | | Y | Private Data | Valid only until the Initial Invoices are produced five Working Days after the end of each capacity period at 12:00. |
| Initial Capacity Payments to each Generator Unit | H | Five Working Days after end of Capacity Period, at 17:00 | uh | | Y | Private Data | Valid only until the Revised Invoices are produced four and thirteen Months after the end of each Capacity Period |

| Publication / Data Report Name | Class | Timing | Subscript | Published via MO Website | Published via MPI | Confidentiality | Validity |
|--|-------|---|-----------|--------------------------|-------------------|-----------------|---|
| Initial Capacity Charge to Supplier Units | H | Five Working Days after end of Capacity Period, at 17:00 | vh | | Y | Private Data | Valid only until the Revised Invoices are produced four and thirteen Months after the end of each Capacity Period |
| Ex-Post Indicative Capacity Payments to Supplier Units | H | Three Working Days after end of Capacity Period, at 17:00 | vh | | Y | Private Data | Valid only until the Initial Invoices are produced five Working Days after the end of each Capacity Period at 12:00 |
| Initial Ex-Post Capacity Payments Weighting Factor | H | Five Working Days after end of Capacity Period, at 17:00 | h | | Y | Private Data | |
| Aggregated Loss adjusted net demand $\Sigma(\text{NDLF})$ for all supplier units in Ireland and Northern Ireland | H | Three Working Days after end of Capacity Period, by 17:00 | - | Y | Y | Public Data | Valid only until the Revised NDLF for all supplier units in Ireland is received on TD+4WD |
| Aggregated Loss adjusted net demand $\Sigma(\text{NDLF})$ for all supplier units in Ireland and Northern Ireland | H | Five Working Days after end of Capacity Period, by 12:00 | - | Y | Y | Public Data | Valid only until the revised NDLF for all supplier units in Ireland is received four months later or on an ad hoc rerun |
| Aggregated Loss adjusted net demand $\Sigma(\text{NDLF})$ for all supplier units in Ireland and Northern Ireland | H | In the fourth month after Initial Capacity settlement | - | Y | Y | Public Data | Valid only until the revised NDLF for all supplier units in Ireland is |

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|--|-------|---|-----------|--------------------------|-------------------|-----------------|--|
| | | | | | | | received thirteen months later or on an ad hoc rerun |
| Aggregated Loss adjusted net demand Σ (NDLF) for all supplier units in Ireland and Northern Ireland | H | In the thirteenth month after Initial capacity settlement | - | Y | Y | Public Data | Valid only until the revised NDLF for all supplier units in Ireland is received on an ad hoc rerun |
| Loss adjusted net demand Σ (NDLF) for all supplier units in Ireland and Northern Ireland | H | Ad hoc | - | Y | Y | Public Data | Valid only until the revised NDLF for all supplier units in Ireland is received on the next rerun |
| | | | | | | | |
| Daily Market Operations Notifications | I | Daily, within day and ad-hoc | - | | Y | Member Public | |
| Energy Resettlement Meter Data | I | Four months after end of Billing Period | - | | Y | Private Data | |
| Resettlement Payments to Price Taker Generator Units | I | Four months after end of Billing Period | - | | Y | Private Data | |
| Resettlement Charges to Supplier Units | I | Four months after end of Billing Period | - | | Y | Private Data | |