

## **SEM Agreed Procedure**

<b>Title</b>	<b>Agreed Procedure 6: Data Publication and Data Reporting</b>
<b>Version</b>	<b>4.2</b>
<b>Date</b>	<b>22<sup>nd</sup> June 2007</b>

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## DOCUMENT HISTORY

VERSION	DATE	AUTHOR	COMMENT
2.0	03/11/2006	SEM Implementation Team	Issued to the Regulatory Authorities
2.1	21/11/2006	SEM Implementation Team	Updates Included Based on Participant Workshop Feedback
4.0	21/05/2007	Regulatory Authorities	Consistent with version 1.3 of the Code
4.1	18/06/2007	Regulatory Authorities	Draft Go-Active Version
4.2	22/06/2007	Regulatory Authorities	Approved for Go-Active by Regulatory Authorities and TSO/SEM Programme

## RELATED DOCUMENTS

DOCUMENT TITLE	VERSION	DATE	BY
Trading and Settlement Code	V2.0	30/05/2007	Regulatory Authorities
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 of 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 MO shall provide such information through the MO Website as set out in this Agreed Procedure.

#### 2.1.1. Elements of Data Publication

Data Publication covers the publication by the MO of the following items:

- **Items and Data Record Publication:** - The MO will publish such data as the Code requires it to publish in a timely manner after it has been received by the MO or calculated by the MO 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 MO will publish the latest version of the Code, and shall update such published version, in accordance with and to the timeline set out in the Code.
- **Updating Publications:** In cases where data that is required by the Code to be published by the MO has been recalculated by the MO or re-submitted to the MO after being updated, improved, or corrected, the MO must publish the updates in a timely manner. This document will explain how the MO 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](#)~~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 Gate Closure
- Updated daily post Gate Closure
- Updated daily post Trading Day
- Updated on a Billing Period basis, post end of Billing Period
- Updated on a Capacity Period basis, post end of Capacity Period
- Other (including ad hoc reports)

## **2.4. PUBLIC AND PRIVATE DATA**

Market Data will be categorised as either:

1. 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”.
2. 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 reports 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.

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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.

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### 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

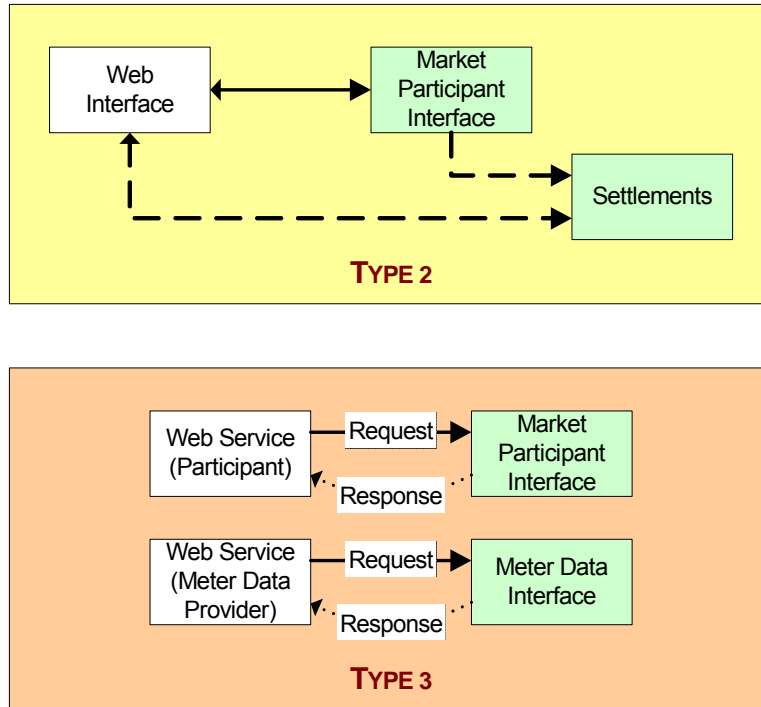


Figure 1: Messaging Architecture - Logical Overview

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 Certificate<sup>1</sup>. From here they can select one of the following options<sup>2</sup>: 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 will be formatted in either PDF, CSV, XLS, XML, or HTML.

<sup>1</sup> Refer to Agreed Procedure 3 “Communication Channel Qualification” for guidelines on Digital Certificate usage

<sup>2</sup> Agreed Procedure 1 “Participant & Unit Registration and Deregistration”



### 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
  - 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.

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### 3.5.3. Notification

The MO shall provide access to these reports through the MO Website and, where appropriate, also through the MPL. 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.”

## 4. APPENDIX 1 – DEFINITIONS AND ABBREVIATIONS

### 4.1. 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
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
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

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Ex-Ante Indicative Market Schedule	As defined in the Code
Ex-Post Indicative Market Schedule	As defined in the Code
Forecast Demand	As defined in the Code
Forecast Demand	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 within 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
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

## 4.2. 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

## 5. APPENDIX 2 – REPORT LISTING

### 5.1. LEGENDS

Please use supplied legends when interpreting the subsequent report listing.

<b>Classification</b>	<b>Description</b>
<b>A</b>	Updated periodically as required
<b>B</b>	Updated annually and as required
<b>C</b>	Updated monthly
<b>D</b>	Updated daily in advance of Gate Closure
<b>E</b>	Updated daily post Gate Closure and before Trading Day
<b>F</b>	Updated daily on Trading Day
<b>G</b>	Updated daily post Trading Day
<b>H</b>	Updated on a Capacity Period basis post end of Capacity Period
<b>I</b>	Ad-hoc Reports

<b>Subscript</b>	<b>Description</b>
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
vh	Per Supplier Unit per Trading Period
vc	Per Supplier Unit per Capacity Period



## 5.2. 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	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
Committee							
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	
Registered Capacity	A	As defined in the Code	-	Y		Public Data	
Forecast Demand	A	As defined in the Code	h	Y		Public Data	
Uplift Alpha, Uplift Beta, Uplift Delta	A	As defined in the Code	-	Y		Public Data	
Variable Market Operator Price	B	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 Charge	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	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	General Public via MPI	Confidentiality	Validity
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	
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	
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	
Maximum level of Warning Limit	B	As defined in the Code	-	Y		Public Data	
Annual Maintenance	B	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
Schedule - Transmission Line Outages							
Annual 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	
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	
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 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	Four days before Trading Day by 14:00	-	Y	Y	Public Data	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	General Public via MPI	Confidentiality	Validity
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 and before Trading Day at 13:00	-	Y	Y	Public Data	
Technical Offer Data Transactions	G	Day after Trading Day at 14:00		Y		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	
<del>System Characteristics Data Transaction</del>	<del>G</del>	<del>Day after Trading Day by 14:00</del>	<del>-</del>	<del>Y</del>		<del>Public Data</del>	
Interconnector Available Transfer Capacities	G	Day after Trading Day at 15:00	lh	Y	Y	Public Data	
<del>Daily Interconnector Capacity Holdings</del>	<del>G</del>	<del>One Working Day after Trading Day at 15:00, and as updated</del>	<del>-</del>	<del>Y</del>	<del>Y</del>	<del>Public Data</del>	
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	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	General Public via MPI	Confidentiality	Validity
Ex-Ante Indicative Operations Schedule	G	Day after Trading Day, by 16:00	-	Y		Public Data	
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 15:00, and as updated	eh	Y		Public Data	
Average interest rate applying for the corresponding settlement period	G	Two Working Days after Trading Day, by 09:00	d	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	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	General Public via MPI	Confidentiality	Validity
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
Initial Market Schedule Quantity	G	Four days after Trading Day, by 17:00	uh	Y		Public Data	
Initial Eligible Availability	H	Five Working Days after Capacity Period, by 16:00	uh	Y		Public Data	
Indicative Eligible Availability	H	Two Working Days after Capacity Period, by 16:00	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 09:00	h	Y		Public Data	
Ex-Post Initial Energy Payments to Generator Units	G	Five Working Days after end of Billing Period, by 14:00, 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	Day after Trading Day at 17:00	-	Y		Public Data	
Credit Assessment Price for the Undefined Exposure Period for the Billing Periods	G	One day after Trading Day by 17:00	-	Y		Public Data	
Estimated Capacity Price for the Undefined Exposure Period for Capacity Periods, ECP	G	Day after Trading 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	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	General Public via MPI	Confidentiality	Validity
Indicative Interconnector Flows and Residual Capacity	G	One day after Trading Day by 16:00	-	Y	Y	Public Data	
Initial Interconnector Flows and Residual Capacity	G	Five days after Trading Day by 16:00	-	Y	Y	Public Data	
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	Five Working Days after end of Capacity Period, by 12:00	uh	Y		Public Data	
Indicative Ex-Post Capacity Payments Weighting Factor	H	Two Working Days after end of Capacity Period, by 16:00	h	Y		Public Data	
Initial Ex-Post Capacity Payments Weighting Factor	H	Five Working Days after end of Capacity Period, by 16:00	h	Y		Public Data	
Initial Variable Capacity Payments Weighting Factor	H	Five Working Days after end of Capacity Period, by 16:00	h	Y		Public Data	
Initial Ex-Post Margin	H	Five Working Days after end of Capacity Period, by 16:00	h	Y		Public Data	
Initial Ex-Post Loss of Load Probability	H	Five Working Days after end of Capacity Period, at 12:00	h	Y	Y	Public Data	



### 5.3 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	
Participant and Unit Detailed Information Registration Data Transaction	A	Within two days of successful application (including a change to a Generator Unit's Classification)	-		Y	Private Data	
Monthly Updates to Settlement Class	C	At 10:00 at least one Working Day before start of Month	-		Y	Member Private	

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Last Updated: 25 June 2007

**SEM Agreed Procedure 6 – Data Publication**

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	Published via MPI	Confidentiality	Validity
Ex-Ante Interconnector User Nominations	D	Published D-1 at 11:00 hrs. Updated as available	-		Y	Private Data	
Ex-Ante Market Schedule by Market Participant	D	One day before Trading day by 13:00			Y	Private Data	
Daily Load Forecast Summary	E	One day before Trading day by 09:30	-		Y	Member Public	
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 Indicative Actual Schedule	E	Daily, post gate closure and before Trading Day by 16:00	-		Y	Member Private	
Interconnector Flows	E	Daily, post gate closure and before Trading Day by 16:00	-		Y	Member Public	
Indicative Daily Jurisdiction Error Supply	G	One Working day after Trading at 17:00	-		Y	Private Data	
Initial Daily Jurisdiction Error Supply	G	Five Working days after Trading at 12:00	-		Y	Private Data	
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	
Modified Interconnector User Nominations	G	D-1 at 13:00	-		Y	Private Data	
Ex-Post Indicative Market Schedule by Participant	G	Day after Trading Day at 17:00	uh		Y	Private Data	Valid only until Ex-Post Initial Market Schedule published on D+4
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

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	Published via MPI	Confidentiality	Validity
Indicative Energy Charges to Supplier Units	G	One Working Day after Settlement Day at 17:00	vh		Y	Private Data	
Settlement Reallocation Data Transaction	G	After Billing Period, as required	p		Y	Private Data	
Ex-Post Initial Energy Payments to Generator Units	G	Five Working Days after end of Billing Period, at 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 end of Billing Period, at 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	
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-Ante Interconnector Nominations	G	One day after Trading Day at 11:00			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	
Daily Revised Interconnector Modified Nominations	G	One day after Trading Day by 16:00. Updated as available			Y	Private Data	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	Published via MPI	Confidentiality	Validity
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, four 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 12:00	uh		Y	Private Data	Valid only until the Revised Invoices are produced four and thirteen Months after the end of each Capacity Period
Initial Capacity Charge to Supplier Units	H	Five Working Days after end of Capacity Period, at 12:00	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 12:00	h		Y	Private Data	

Publication / Data Report Name	Class	Timing	Subscript	Published via MO Website	Published via MPI	Confidentiality	Validity
Revised Modified Interconnector User Nominations	I	D-1 at 16:00 Updated as available	-		Y	Private Data	
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	