



GENERAL PUBLICATION UPDATE DOCUMENT

V5.4

DOCUMENT DISCLAIMER

Every care and precaution is taken to ensure the accuracy of the information provided herein but such information is provided without warranties express, implied or otherwise howsoever arising and EirGrid plc and SONI Limited to the fullest extent permitted by law shall not be liable for any inaccuracies, errors, omissions or misleading information contained herein.

1 TABLE OF CONTENTS

1 Table of Contents 2

2 Introduction 4

3 Website Content 5

3.1 SEMO Homepage 6

 3.1.1 Market Messages 6

 3.1.2 SEMO News Items 8

 3.1.3 SEMO Events Calendar 8

 3.1.4 Email Alerts 10

 3.1.5 Data Publication List 12

3.2 Market Development 13

 3.2.1 Market Rules 13

 3.2.2 Modifications 14

 3.2.3 Market Development Calendar 15

3.3 Market Data 18

 3.3.1 Static Reports 18

 3.3.1.1 Data Publication List 19

 3.3.1.2 File Formats 23

 3.3.2 Dynamic Reports 28

 3.3.2.1 Data Publication List 29

 3.3.2.2 Query Limitations 32

 3.3.2.3 Output File Size Limitations 36

 3.3.2.4 Output File Formats 36

 3.3.3 Settlement Calendar 36

3.4 Publications 39

 3.4.1 Data Publication List 40

3.5 Automated Data Publication Retrieval 45

 3.5.1 Webservices 45

 3.5.2 FTP Services 46

4 Appendix A – Dynamic Reporting File Formats 49

 4.1.1 Dynamic Reports – Output File Formats 49

Document History

Version	Date	Author	Comment
5.0	16 th October 2013	SEMO	Created from “originally published GPUD” document content. Updated for Intraday Trading and Market System Releases up to 2.2.1 and Website Release up to 2.0.0.0
5.1	16 th January 2014	SEMO	Dynamic Reports – Pre-defined report ‘Outputs by Unit ‘has been removed. Information can be obtained from other reports D24, D37, D38, D40 instead
5.2	TBC	SEMO	Updates to Dynamic Reporting section based on review of functionality and improvements implemented
5.4	27 th June 2017	SEMO	Updates based on the approval of MOD_04_17 – Solar PV units are registered in the Market Systems with Fuel Type Wind.

Distribution List

Name	Organisation
General Public	
Market Participants	

Source / Reference Documents

Document Name	Document Reference
SEMO Website Automated Interfaces Specification - Web Services	5.0
SEMO FTP Services Specification	1.0

2 INTRODUCTION

The General Publications Update Document (GPUD) provides details of the information published publicly as part of the Single Electricity Market Operator (SEMO) obligations under the Trading and Settlement Code (TSC)¹.

Within the TSC this publicly available information is referred to as “Data Publications”. This term will be used throughout the remainder of this document.

The focus of this document is on the data publications available from the SEMO website, www.sem-o.com. However, references are also made to the alternative methods of retrieving data publications available via the SEMO web services and FTP sites.

The details in this document cover the minimum requirements for publication as specified in the TSC. Additional information may be published by the Market Operator as it deems appropriate.

¹ The majority of these publications are listed in Appendix E of the Trading and Settlement Code

3 WEBSITE CONTENT

There are four main areas on the SEMO website www.sem-o.com where general publications are made available:

- SEMO Homepage
- Market Development
- Market Data
- Publications

The screenshot shows the SEMO website homepage. At the top, there is a navigation bar with links for 'Home', 'Joining the Market', 'Training', 'Market Data', 'Publications', and 'Market Development'. The 'Home', 'Market Data', 'Publications', and 'Market Development' links are circled in red. Below the navigation bar, the main content area is divided into several sections:

- The Single Electricity Market Overview 6th September 2013:** This section features a line and bar chart showing 'SYSTEM LOAD' (MW) and 'SMP' (€/MWh) from 06:00 on 07/09/2013 to 04:30 on 08/09/2013. The chart shows a peak in system load around 12:00 and 21:00. To the right of the chart, there are buttons for 'View Chart Data', 'Currency: EUR GBP', and 'Trading Day Statistics' (Min Daily Price: €45.22 MWh, Max Daily Price: €83.79 MWh). A 'More Market Data' button is also present.
- Today's Operational Indicators:** This section displays five indicators: Pricing (green), Settlement (red X), Invoicing (green), Funds Transfer (green), and CRM (green). Below these are buttons for 'Open Market Messages' and 'View all Market Messages'.
- Value of Market:** This section contains a table comparing Year-to-Date (YTD) and Last Year data for Energy, Capacity, and Constraints.

	YTD	Last Year
Energy	€2,110,903,014	€2,108,001,002
Capacity	€483,808,750	€523,385,803
Constraints	€143,451,500	€134,488,160

At the bottom of the page, there is a 'Latest SEMO News' section and a 'What does SEMO do?' section with a sub-heading 'About the Single Electricity Market'.

3.1 SEMO HOMEPAGE

From the [SEMO website](#) homepage there are three sections that are used to provide data to the market.

These mainly comprise notifications to the market about market events e.g. market system outages, delays in publications, notification of upcoming meetings etc.

These three areas are:

1. Market Messages
2. SEMO News
3. SEMO Events Calendar

The screen shot below shows their location on the homepage.



3.1.1 MARKET MESSAGES

The [Market Messages](#) section of the SEMO homepage is used to provide updates on the status of market operations.

Market Messages are issued for a number of reasons, including (but not limited to) :

- Pricing/Settlement/Invoicing/Payment delays
- Central Market System Outages
- Ad hoc Resettlement Events

A set of traffic lights within the market messages window provides a visual representation of the status of the market operations.

Where delays or issues occur the traffic lights will be updated from green to amber/red.



By clicking on '[View all Market Messages](#)' a three month historical listing of market messages can be obtained.

Filters are available on the Market Message page allowing the user to view market messages by message categories, run types, message status and creation dates.

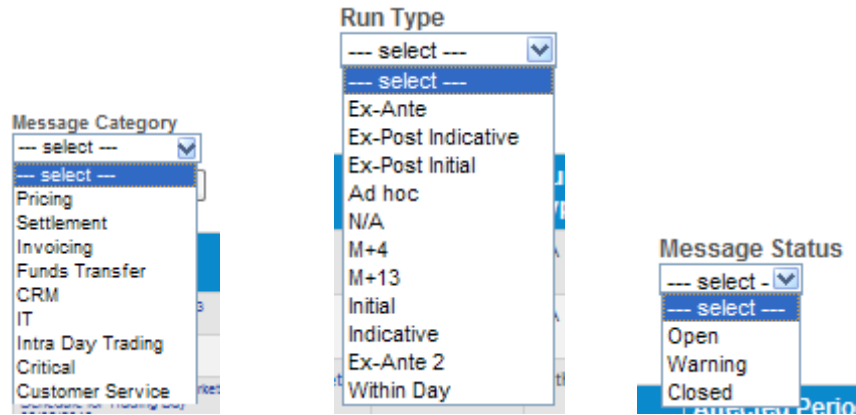
Market Messages

Message Category: --- select ---
 Run Type: --- select ---
 Message Status: --- select ---
 Created From: [input field]
 Created To: [input field]

Find Clear

Message Subject	Message Category	Run Type	Affected Period	Created	Modified	Message Status
Indicative Settlement (04/09/2013) - Delay	Settlement	Indicative	04/09/2013	05/09/2013 16:50	06/09/2013 12:00	Closed
Delay to Ad Hoc Capacity Invoicing and Statements for June 2012	Settlement	Ad hoc	June 2012	05/09/2013 14:36	05/09/2013 15:21	Closed
Notification of Upcoming Ad hoc Capacity Resettlement July 2013	Settlement	Ad hoc	July 2013	19/08/2013 16:23	05/09/2013 15:02	Closed
Planned-CMS-Outage-3-9-13	IT	NA	3/9/13 8pm to 9pm	02/09/2013 16:05	04/09/2013 11:57	Closed
CMS Available 03-09-2013	IT	NA	03/09/2013 8PM - 9PM	03/09/2013 20:22	04/09/2013 11:55	Closed
MIP used for Within Day Market Schedule for Trading Day 03/09/2013	Pricing	Within Day	03/09/2013	03/09/2013 08:47	03/09/2013 08:47	Closed
Central Market Systems - available.	IT	NA	28/8/13	28/08/2013 22:44	29/08/2013 16:10	Closed
Notification of Re-Pricing Events due to Initial Target Level Defect	Settlement	Ad hoc	51 Trading Days in the period 10/08/2012 to 05/07/2013	27/08/2013 16:34	29/08/2013 16:01	Warning

The options under each of the filters are shown below:



The Created From and Created To can be used to further limit the selection criteria to only show messages created within a particular timeframe. The format of the date entered must be dd/mm/yyyy.

When a Market Message is published on the SEMO website an email alert is sent to the 'Market Messages' SEMO Alert distribution list. (See section 3.1.4 for more information on SEMO Alerts).

3.1.2 SEMO NEWS ITEMS

The [SEMO News](#) section is used to publicise information which is not relevant to the real time operation of the market (covered by market messages), but still needs to be made available to a wide audience. Examples include:

- Updates to market documentation such as the Market Participant Update Document (MPUD)
- SEM Release Details - Market Test details, deployment dates etc.

When a SEMO News item is published, an email alert is sent to the relevant SEMO Alert distribution list (e.g. Market Messages, Market Participants or Systems & Interfaces). See section 3.1.4 for more information on email alerts..

3.1.3 SEMO EVENTS CALENDAR

The [SEMO Events Calendar](#) is used to highlight upcoming events to interested parties.

A list of 'Upcoming Events' is provided on the bottom of the SEMO website homepage. A full list of events can also be shown by clicking on the '[SEMO Events Calendar](#)'. The screenshot below shows the location of these links on the homepage (1 & 2),

Latest SEMO News

More SEMO News

Upcoming Events 1

- 24th Sep 2013 Meeting 51 Mod Proposal Submission Deadline(Dublin) ↑
- 27th Sep 2013 SEM R2.4.0 - April 2014 Release Cut-Off Date
- 8th Oct 2013 Modifications Meeting 51 (Europa Hotel) ↓

More Events SEM Events Calendar 2

What does SEMO do?

About the Single Electricity Market
 The Single Electricity Market (SEM) is the wholesale electricity market operating in the Republic of Ireland and Northern Ireland. The SEM provides for a competitive, sustainable and reliable wholesale market in electricity, a joint venture between Eirgrid plc and SONI Limited. For more information about SEMO please see About SEMO.

Latest Initiatives

- Guarantees of Origin
- Fuel Mix Disclosure
- Dictionary
- Helpdesk

SEMO is a joint venture between EirGrid PLC and SONI Limited

[Back to Top](#)

[Site Map](#)
[Links](#)
[Disclaimer](#)
[Web Accessibility](#)
[Cookies](#)

The SEMO Events Calendar shows market related meetings and conference calls in a calendar format.

Home
Joining the Market
Training
Market Data
Publications
Market Development

Home > All SEMO Events

All SEMO Events

Show Events:

← **September 2013** Expand All Collapse All | Day: Week: th

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	27	28	29 14:00 MOUG Conference Call - Thursday 29th August	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24 17:00 Meeting 51 Mod Proposal Submission Deadline(Dublin)	25	26	27 17:00 SEM R2.4.0 - April 2014 Release Cut-Off Date	28	29

The default view of the calendar is 'ALL SEMO Events' and the calendar can be filtered by event type:



By clicking on an event in the calendar the following information about that event can be obtained:

- Start Time
- End Time
- Event Category
- Event Type
- Description (e.g. purpose for meeting, conference call dial in details etc)
- Associated Documents (e.g. Briefing Notes, Agendas, Presentation Materials etc)
- Date and Time Created

[Home](#) > [View Calendar Item](#)

• MOUG Conference Call - Thursday 29th August

- Location: Conference Call
- Start Time: 29/08/2013 14:00:00
- End Time: 29/08/2013 14:30:00
- Event Category: Market Operations
- Event Type: MOUG Meeting
- Description:
Following the Market Operator Conference Call of 29/08/2013, an updated Briefing Note is now available [here](#).
- Associated Documents:
[Agenda & Briefing Note](#)
- Created: 02/07/2013 14:49:51

When an event is added or updated on the SEMO Events Calendar an email alert will be sent to both the 'Market Messages' and 'Market Participants' SEMO Alert distribution lists – see section 3.1.4 for more information on email alerts.

3.1.4 EMAIL ALERTS

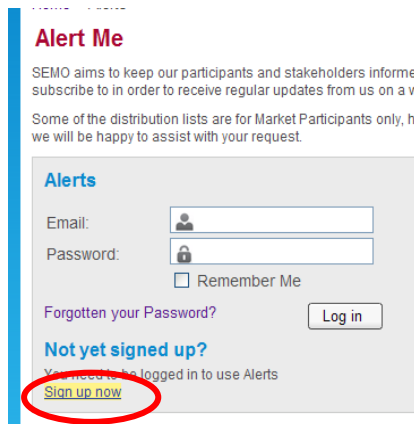
To receive notification when a Market Message, News Item or Calendar Event is published/updated on the SEMO website users can sign up to email alerts.

Subscription to this service can be performed from the "Alert Me" section of the SEMO website shown in the following screenshot.

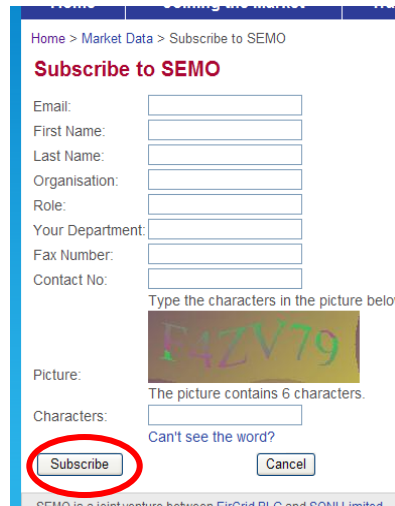


To register for email alerts:

1. Click on the '[Subscribe to Email Alerts](#)'
2. Click 'Sign Up Now' (see screenshot below)



3. Enter your contact details, type the characters in the picture and click 'Subscribe' (see screenshot below)



4. A confirmation email will be sent to your email account
5. Once you have registered for email alerts you then need to select the alert groups you require (shown in the following screenshot).

Important Note: *If you do not select any alert groups you will not receive any email alerts.*

[Home](#) / [Alerts](#) / [Alert Subscriptions](#)

Alert Subscriptions

If your email address is not laura.plunkett@sem-o.com, please [log out](#)

Alert Type

Select the alert categories that you would like to subscribe to:

- Market Messages -- Subscribe to email alerts for new or updated Market Messages
- Market Participants -- This mailing list is intended for all Market Participants for general Market infor
- Systems & Interfaces -- Receive email alerts when IT related material is added or changed
- Market Rules Modifications Interested Party
- Notification of Invoice Publication - Subscribers will be notified when new invoices are published
- Intra-Day Trading - Business Readiness
- Customer Service Test Only
- Working Group: Proposal to extend the definition of Special Units to include Compressed Air Energy (Mod_11_12)

6. [Want to cancel your subscription to SEMO alerts?](#)
[Click to unsubscribe from SEMO alerts](#)

3.1.5 DATA PUBLICATION LIST

The following table summarises the data publications available from the SEMO homepage and their location.

Ref	Publication	Home Page Section
H.1	General Communication Failure Notification	Market Messages
H.2	General System Failure Notification	Market Messages
H.3	Current Incidents, including: <ul style="list-style-type: none"> - Publishing delays - Ad hoc Settlement Events - Alternate Solver Use - Central Market System Outages 	Market Messages
H.4	Emergency Implementation	Market Messages
H.5	Level 1 Implementation Notification	SEMO News
H.6	Level 2 Implementation Notification	SEMO News
H.7	Level 3 Implementation Notification	SEMO News
H.8	Level 4 Implementation Notification	SEMO News
H.9	Proposed Market Operator Isolated Market System Testing Schedule	SEMO News
H.10	Current/Planned Events, including <ul style="list-style-type: none"> - Modification Meetings - Market Operations Conference Calls (MOCC) - Market Operator User Group Meetings (MOUGs) - Market Operations Special Topic Meetings (MOST) 	SEMO Calendar

3.2 MARKET DEVELOPMENT

From the [Market Development](#) section of the SEMO Website there are three areas that are used to provide data publications.

1. Market Rules
2. Modifications
3. Market Development Calendar

The data publications in this section of the website focus on details of the modifications proposed to the TSC and the meetings associated with agreeing these modifications. In addition, the current set of TSC and Agreed Procedure Rules are made available in this section.

Details of their locations on the homepage are shown below.

The screenshot shows the SEMO website's 'Market Development' page. The header includes the SEMO logo (Single Electricity Market Operator) and navigation links: Home, Joining the Market, Training, Market Data, Publications, and Market Development. A search bar is also present. The main content area is titled 'Market Development' and features a large image of wind turbines. Below the image, there are sections for 'Market Rules' and 'Modifications'. A sidebar on the right contains a 'Market Development Calendar' with a list of meetings and deadlines. The 'Market Rules' section includes text about the Trading and Settlement Code (the Code) and its updates. The 'Modifications' section is partially visible at the bottom.

3.2.1 MARKET RULES

The [Market Rules](#) page provides the latest published version of the TSC and Agreed Procedures.

At the bottom of this page details of the modifications that were included in the most recent release of the TSC are also provided.

semo
Single Electricity
Market Operator

Electricity on demand from a competitive, sustainable and reliable wholesale market.

Home | Joining the Market | Training | Market Data | Publications | Market Development

Home > Market Development > Market Rules

Market Rules RSS

The Market Rules consist of the latest approved Trading and Settlement Code, Agreed Procedures and any 'approved' Modifications which have not yet been incorporated into the main body of the Code or the Agreed Procedures (see Approved Modifications at the Modification Proposals page). It is important to note: a Modification may become effective before the published draft of the Code is amended to include the Modification. Please see Modification Proposals currently in effect on the baseline below.

Trading and Settlement Code v13.0

Agreed Procedures

Mods Currently in Effect on the current Baseline

Market Development Calendar

- 24th Sep 2013 Meeting 51 Mod Proposal Submission Deadline (Dublin)
- 8th Oct 2013 Modifications Meeting 51 (Europa Hotel)
- 21st Nov 2013 Meeting 52 Mod

View Market Development Calendar

SEMO is a joint venture between EirGrid PLC and SONI Limited

Back to Top | Site Map | Links | Disclaimer | Web Accessibility | Cookies

© 2013 SEMO, ROI: The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4.
NI: Castlereagh House, 12 Manse Road, Belfast, BT6 9RT.

3.2.2 MODIFICATIONS

The [Modifications](#) page provides details of each Modification, its status, effective date, category (as determined by the Regulatory Authorities), and any related documentation.

The Modifications page also provides information on:

- *Committee Members* - Displays a list of all current and active committee members
- *Submitting Modifications* – Provides instructions and templates for submitting modification proposals
- *Agendas and Minutes* - displays all published agendas and minutes relating to the Modifications Committee operation.

semo
Single Electricity
Market Operator

Home | Joining the Market | Training | Market Data | Publications | Market Development

Home > Market Development > Modifications

Modifications

The Trading and Settlement Code Modifications Committee is the forum for considering change to the Trading and Settlement Code. The Modifications Committee meets every 2 months. Details of all scheduled meetings can be found on the Market Development calendar.

The 2013 calendar of Modification events is available for download at this link.

Stage: Active | Mod Status: --- select --- | Mod ID: []

Title: [] | Section Affected: --- select ---

Find [] Clear []

Mod ID	Title	Mod Status	Stage	Section Affected	Effective Date
MOD_09_13	Amendment of AP7 to include the use of e-mail notification and the SEMO public website in the event of a GSF	Deferred	Active	Agreed Procedure 7	
MOD_08_13	Amendment to number of days granted to the MO for the issuing of Party Accession Deeds	RA Decision: Approved (Not Vetoed)	Active	Agreed Procedure 1	28/08/2013
MOD_07_13	Clarification regarding the rules for Instruction Profiling in Appendix O	RA Decision: Approved (Not Vetoed)	Active	T&SC Appendix O	17/07/2013
MOD_06_13	Housekeeping 6	RA Decision: Approved (Not Vetoed)	Active	Agreed Procedure 1; Agreed Procedure 6	28/08/2013

Market Development Calendar

- 24th Sep 2013 Meeting 51 Mod Proposal Submission Deadline (Dublin)
- 8th Oct 2013 Modifications Meeting 51 (Europa Hotel)
- 21st Nov 2013 Meeting 52 Mod

View Market Development Calendar

Agendas and Minutes

Filters may also be used on the Modifications page to retrieve modification of a certain type or status.

3.2.3 MARKET DEVELOPMENT CALENDAR

The [Market Development Calendar](#) provides a calendar view of modification committee meetings, conference calls and modification submission deadlines, as part of the Market Development and Modification Committee activities.

The calendar format is the same as the SEMO Calendar provided on the homepage with the exception that entries have been filtered by the 'Market Development and Modification Committee' event type.

Home > Market Development and Modification Committee Calendar

Market Development and Modification Committee Calendar

Show Events: Market Development and Modification Committee

← → August 2013 Expand All Collapse All Day 1 Week 7th 31

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29	30	31	1 17:00 Meeting 50 Mod Proposal Submission Deadline(Dublin)	2	3	4
5	6	7	8	9	10	11
12	13	14	15 10:00 Modifications Meeting 50(Morgan Hotel)	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

By clicking on an event in the calendar the following information about that event can be obtained:

- Start Time
- End Time
- Event Category
- Event Type
- Description (e.g. purpose for meeting, conference call dial in details etc)
- Associated Documents (e.g. Briefing Notes, Agendas, Presentation Materials etc)
- Date and Time Created

• Modifications Meeting 50(Morgan Hotel)

- Location: Morgan Hotel
- Start Time: 15/08/2013 10:00:00
- End Time: 15/08/2013 16:00:00
- Event Category: Modifications Committee
- Event Type: Ordinary
- Created: 07/01/2013 11:08:11

Placeholders for ‘Market Development and Modifications Committee’ events are sent direct to the ‘Market Rules Modifications Interested Party’ SEMO Alert distribution list, via the modifications@semo.com mailbox (Microsoft Outlook). Data Publication List

The following table summaries the data publications available from the Market Development section, their location and file type

Ref	Publication	Market Development Page	File Format
-----	-------------	-------------------------	-------------

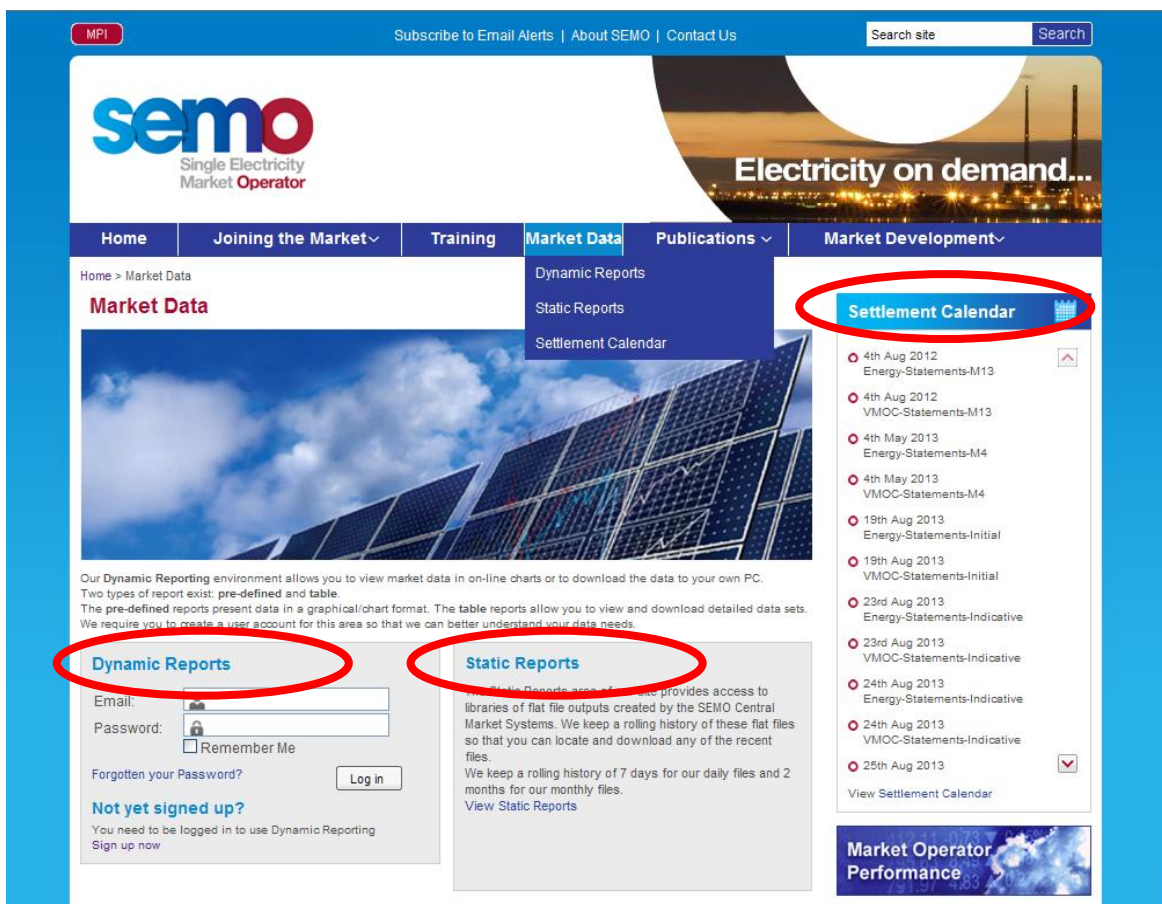
Ref	Publication	Market Development Page	File Format
M.1	The Code and Agreed Procedures	Market Rules	Word
M.2	Proposal Notice	Modifications	Word
M.3	Consultation on Proposal Notice	Modifications	PDF
M.4	Responses to Consultation on Proposal Notice	Modifications	Word and PDF
M.5	Further Information on Proposal Notice	Modifications	PDF
M.6	Final Recommendation Report	Modifications	Word
M.7	Regulatory Authority decision on Final Modification Recommendation	Modifications	PDF
M.8	Date of the next meeting of the Modifications Committee	Market Development Calendar	Calendar
M.9	Members and chairperson of the Modification Committee	Modifications	Webpage
M.10	Reports on progress and status of Modification Proposals	Modifications	Word (Covered in Minutes)

3.3 MARKET DATA

From the [Market Data](#) section of the SEMO Website there are three sub-sections that are used to provide data publications.

1. [Static Reports](#) - allows downloading of data publication files (Pricing & Scheduling, Energy Settlement and Capacity Settlement files)
2. [Dynamic Reports](#) - allows viewing of historical market data in both chart and table format, and download.
3. [Settlement Calendar](#) – provides details about when Statements and Invoices will be published as well as when Payments are due.

Details of the location of these data publications is provided below.

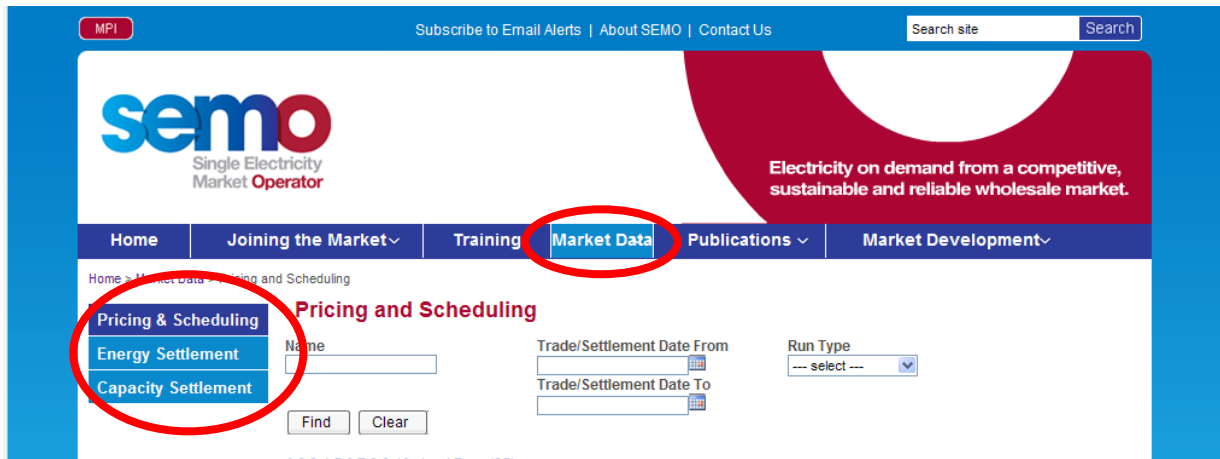


3.3.1 STATIC REPORTS

Static Reports are categorised as follows to allow easier navigate and selection:

- Pricing and Scheduling
- Energy Settlement
- Capacity Settlement

There are a total of 76 reports available in the [Static Reports](#) section. All files can be downloaded.



Files can be retrieved on a trading day basis (for pricing reports) or settlement day (for settlement reports). Files can also be filtered based on the run type.

Pricing & Scheduling and Energy Settlement data publications are available for seven days from the date of publishing. Capacity Settlement data publications are available for one month from the date of publishing.

If data publications are required from a period older than seven days (or one month for Capacity information) then it will be available from the Dynamic Reporting section².

3.3.1.1 Data Publication List

The following table summarises the data publications available from the Market Data – Static Reports page.

All files are named based on the publication name, relevant trading day/settlement day, then the date and time the file was created.

File Naming Convention:

<PUBLICATION NAME_YYYYMMDD_YYYYMMDD_HHMMSS.xtn>

Example:

EX-POST INDICATIVE MARKET SCHEDULE QUANTITY_20130909_20130910_144227.XML

Ref	Publication Name	Grouping	Date Selection Criteria	Run Type	Frequency	File Type
S.1	DataPublications_Reports ³	Pricing and Scheduling	Trading Day	NA	Daily	ZIP (containing XLS)
S.2	Demand Control Data Transaction	Pricing and Scheduling	Trading Day	NA	Daily	XML
S.3	Generator Unit Technical Characteristics Data Transaction	Pricing and Scheduling	Trading Day	NA	Daily	XML
S.4	MSP Cancellation	Pricing and Scheduling	Trading Day	NA	Daily	XML

² A request can be made to retrieve the information from the static reports archive, however this may take some time to process and SEMO will refer users to the Dynamic Reporting section if the information is available there. Please refer to the Archival Request section for details on requesting historical Static Report files

³ Information on the DataPublications Report is available here: <http://www.sem-o.com/Publications/General/Website%20Communication%20Data%20Publication%20Report.doc>

General Publications Document (GPUD)

Ref	Publication Name	Grouping	Date Selection Criteria	Run Type	Frequency	File Type
S.5	Loss of Load Probability Forecast	Pricing and Scheduling	Trading Day	NA	Monthly	XML
S.6	Monthly Aggregated Load Forecasts	Pricing and Scheduling	Trading Day	NA	Monthly	XML
S.7	Monthly Load Forecasts	Pricing and Scheduling	Trading Day	NA	Monthly	XML
S.8	Monthly Updates to Settlement Class	Pricing and Scheduling	Trading Day	NA	Monthly	XML
S.9	Commercial Offer Data - Demand Side Unit Nomination Profiles_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.10	Commercial Offer Data - Generator Unit Nomination Profiles_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.11	Commercial Offer Data - Interconnector Units_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.12	Commercial Offer Data - Standard Demand Site Unit_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.13	Commercial Offer Data - Standard Generator Unit_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.14	Ex-Ante Indicative Market Schedule_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.15	Ex-Ante Indicative Operations Schedule	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.16	Ex-Ante Indicative Shadow Prices_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.17	Ex-Ante Market Schedule Summary_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.18	Four Day Rolling Load Forecast and Assumptions	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.19	Interconnector ATC	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.20	Interconnector Capacity Active Holdings	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.21	Interconnector Offered Capacity_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.22	Technical Offer Data - Demand Side Units_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.23	Technical Offer Data - Forecast Data_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.24	Technical Offer Data - Standard Units_EA	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.25	Trading Day Exchange Rate	Pricing and	Trading Day	Ex-Ante	Daily	XML

General Publications Document (GPUD)

Ref	Publication Name	Grouping	Date Selection Criteria	Run Type	Frequency	File Type
		Scheduling				
S.26	Two Day Rolling Wind Forecast ⁴	Pricing and Scheduling	Trading Day	Ex-Ante	Daily	XML
S.27	Commercial Offer Data - Demand Side Unit Nomination Profiles_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.28	Commercial Offer Data - Generator Unit Nomination Profiles_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.29	Commercial Offer Data - Interconnector Units_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.30	Commercial Offer Data - Standard Demand Site Unit_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.31	Commercial Offer Data - Standard Generator Unit_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.32	Ex-Ante Indicative Market Schedule_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.33	Ex-Ante Indicative Shadow Prices_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.34	Ex-Ante Market Schedule Summary_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.35	Interconnector Offered Capacity_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.36	Technical Offer Data - Demand Side Units_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.37	Technical Offer Data - Forecast Data_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.38	Technical Offer Data - Standard Units_EA2	Pricing and Scheduling	Trading Day	Ex-Ante 2	Daily	XML
S.39	Commercial Offer Data - Demand Side Unit Nomination Profiles_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.40	Commercial Offer Data - Generator Unit Nomination Profiles_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.41	Commercial Offer Data - Interconnector Units_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.42	Commercial Offer Data - Standard Demand Site Unit_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.43	Commercial Offer Data - Standard Generator Unit_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.44	Ex-Ante Indicative Market Schedule_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML

⁴ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

General Publications Document (GPUD)

Ref	Publication Name	Grouping	Date Selection Criteria	Run Type	Frequency	File Type
S.45	Ex-Ante Indicative Shadow Prices_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.46	Ex-Ante Market Schedule Summary_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.47	Technical Offer Data - Demand Side Units_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.48	Technical Offer Data - Forecast Data_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.49	Technical Offer Data - Standard Units_WD1	Pricing and Scheduling	Trading Day	Within Day	Daily	XML
S.50	Dispatch Instructions	Pricing and Scheduling	Trading Day	D+1	Daily	XML
S.51	Ex-Post Indicative Market Schedule Quantity	Pricing and Scheduling	Trading Day	Ex-Post Indicative	Daily	XML
S.52	Ex-Post Indicative Shadow Prices	Pricing and Scheduling	Trading Day	Ex-Post Indicative	Daily	XML
S.53	Ex-Post Indicative SMPs	Pricing and Scheduling	Trading Day	Ex-Post Indicative	Daily	XML
S.54	Dispatch Instructions D3	Pricing and Scheduling	Trading Day	D+3	Daily	XML
S.55	Energy Limited Generator Unit	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.56	Ex-Post Initial Actual Load Summary	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.57	Ex-Post Initial Market Schedule Quantity	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.58	Ex-Post Initial Shadow Prices	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.59	Ex-Post Loss of Load Probability Forecast	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.60	Initial SMPs	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.61	Interconnector Available Transfer Capacities	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.62	Modified Interconnector Unit Nominations	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.63	Price-affecting Metered Data	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.64	SO Interconnector Trades	Pricing and Scheduling	Trading Day	Ex-Post Initial	Daily	XML
S.65	Generator Unit Under Test Notice (Under Test Flag included in COD	Pricing and	Trading Day	Ex-Ante Ex-Ante 2	Daily	XML

Ref	Publication Name	Grouping	Date Selection Criteria	Run Type	Frequency	File Type
	Nomination Profile reports: S.9,S.10,S.27, S.28, S.39, S.40)	Scheduling		Within Day		
S.66	Ex-Post Indicative Energy Payments	Energy Settlement	Settlement	Ex-Post Indicative	Daily	CSV
S.67	Ex-Post Indicative Metered Generation and NIJI	Energy Settlement	Settlement	Ex-Post Indicative	Daily	CSV
S.68	Ex-Post Indicative Tolerances and Dispatch Offer Price	Energy Settlement	Settlement	Ex-Post Indicative	Daily	CSV
S.69	Ex-Post Initial Energy Payments	Energy Settlement	Settlement	Ex-Post Initial	Daily	CSV
S.70	Ex-Post Initial Metered Generation and NIJI	Energy Settlement	Settlement	Ex-Post Initial	Daily	CSV
S.71	Ex-Post Initial Tolerances and Dispatch Offer Price	Energy Settlement	Settlement	Ex-Post Initial	Daily	CSV
S.72	System Frequency	Energy Settlement	Settlement	Ex-Post Initial	Daily	XML
S.73	Ex-Post Indicative Capacity Information	Capacity Settlement	Settlement	Ex-Post Indicative	Monthly	CSV
S.74	Ex-Post Indicative Capacity Payments	Capacity Settlement	Settlement	Ex-Post Indicative	Monthly	CSV
S.75	Ex-Post Initial Capacity Information	Capacity Settlement	Settlement	Ex-Post Initial	Monthly	CSV
S.76	Ex-Post Initial Capacity Payments	Capacity Settlement	Settlement	Ex-Post Initial	Monthly	CSV

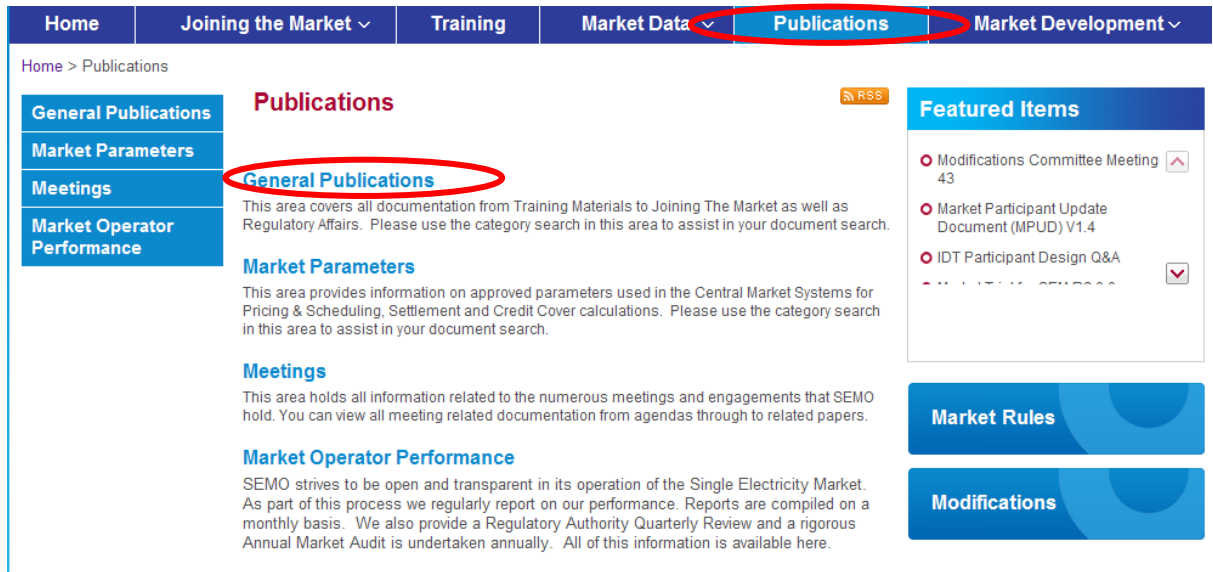
3.3.1.2 File Formats

The data publications provided as static reports on the SEMO website are also available via the Market Participant Interface (MPI).

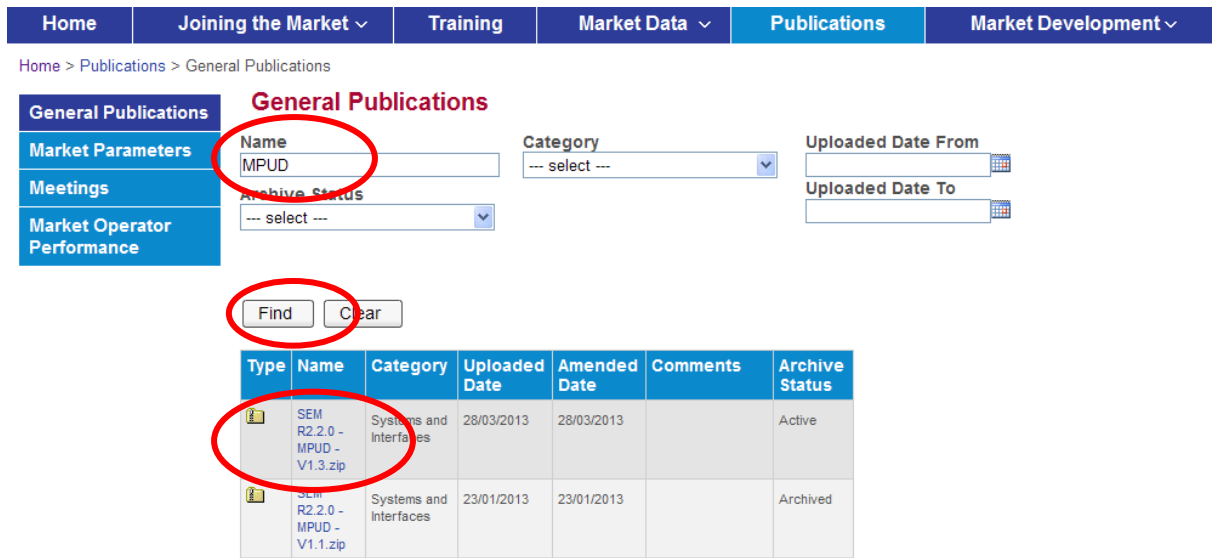
Users should reference the Market Participant Update Document (MPUD) for details on file formats etc.

To obtain the latest version of the MPUD

1. Navigate to the [Publications](#) section of the SEMO website
2. Click on [General Publications](#)



3. In the 'Name' filter enter "MPUD"
4. Click on 'Find'
5. Select the latest version of the MPUD from the list (Archive Status – Active)



6. Open the zip file
7. Open the "Interface Volume 2: Reporting" document. Section 4" MPI Reports". This document contains the file formats.

As the naming standard for reports in the MPUD is slightly different to those on in the static reports section of the SEMO website, the below mapping is provided to aid in referencing the file formats in the MPUD.

GPUD Static Report Publication Name	MPUD Report Name
Daily Aggregated Load Forecasts	Daily Aggregated Four Day Rolling Load Forecast
Daily Jurisdiction Error Supply MW (D+15)	Daily Jurisdiction Error Supply MW (D+15)

GPUD Static Report Publication Name	MPUD Report Name
Daily Residual Error Volume (REVLf) D+15 report	Daily Residual Error Volume (REVLf) D+15 report
DataPublications_Reports	The Static Report "DataPublications_Reports" is not available from the MPI, and is not defined in the MPUD. Details on the file format of this xls document can be found in the document Website Data Publication Report
Demand Control Data Transaction	Daily Demand Control Data Transaction
Generator Unit Technical Characteristics Data Transaction	Daily Generator Unit Technical Characteristics Data Transaction
List of Suspended/Terminated Market Participants	List of Suspended/Terminated Market Participants
MSP Cancellation	MSP Cancellation
Loss of Load Probability Forecast	Monthly Loss of Load Probability
Monthly Aggregated Load Forecasts	Monthly Aggregated Load Forecast
Monthly Load Forecasts	Monthly Load Forecast & Assumptions
Monthly Updates to Settlement Class	Monthly Updates to Settlement Class
Commercial Offer Data - Demand Side Unit Nomination Profiles_EA	Daily Commercial Data Demand Side Unit Nomination Profiles
Commercial Offer Data - Generator Unit Nomination Profiles_EA	Daily Commercial Data Generator Unit Nomination Profiles
Commercial Offer Data - Interconnector Units_EA	Daily Commercial Offer Data – Interconnector Units
Commercial Offer Data - Standard Demand Site Unit_EA	Daily Commercial Offer Data – Standard Demand Side Unit
Commercial Offer Data - Standard Generator Unit_EA	Daily Commercial Offer Data – Standard Generator Unit
Ex-Ante Indicative Market Schedule_EA	Daily Ex-Ante Market Schedule Detail (Public)
Ex-Ante Indicative Operations Schedule	Daily Ex-Ante Indicative Operations Schedule
Ex-Ante Indicative Shadow Prices_EA	Daily Ex-Ante Indicative Shadow Prices
Ex-Ante Market Schedule Summary_EA	Daily Ex-Ante Market Schedule Summary
Four Day Rolling Load Forecast and Assumptions	Daily Four Day Rolling Load Forecast and Assumptions
Interconnector ATC	Daily Interconnector ATC
Interconnector Capacity Active Holdings	Daily Interconnector Capacity Active Holdings
Interconnector Offered Capacity_EA	Interconnector Offered Capacity Publication
Technical Offer Data - Demand Side Units_EA	Daily Technical Offer Data – Demand Side Units
Technical Offer Data - Forecast Data_EA	Daily Technical Offer Data – Forecast Data

GPUD Static Report Publication Name	MPUD Report Name
Technical Offer Data - Standard Units_EA	Daily Technical Offer Data – Standard Units
Trading Day Exchange Rate	Daily Trading Day Exchange Rate
Two Day Rolling Wind Forecast ⁵	Two Day Rolling Wind Forecast and Assumptions Per Jurisdiction ⁶
Commercial Offer Data - Demand Side Unit Nomination Profiles_EA2	Daily Commercial Data Demand Side Unit Nomination Profiles
Commercial Offer Data - Generator Unit Nomination Profiles_EA2	Daily Commercial Data Generator Unit Nomination Profiles
Commercial Offer Data - Interconnector Units_EA2	Daily Commercial Offer Data – Interconnector Units
Commercial Offer Data - Standard Demand Site Unit_EA2	Daily Commercial Offer Data – Standard Demand Side Unit
Commercial Offer Data - Standard Generator Unit_EA2	Daily Commercial Offer Data – Standard Generator Unit
Ex-Ante Indicative Market Schedule_EA2	Daily Ex-Ante Market Schedule Detail (Public)
Ex-Ante Indicative Shadow Prices_EA2	Daily Ex-Ante Indicative Shadow Prices
Ex-Ante Market Schedule Summary_EA2	Daily Ex-Ante Market Schedule Summary
Interconnector Offered Capacity_EA2	Interconnector Offered Capacity Publication
Technical Offer Data - Demand Side Units_EA2	Daily Technical Offer Data – Demand Side Units
Technical Offer Data - Forecast Data_EA2	Daily Technical Offer Data – Forecast Data
Technical Offer Data - Standard Units_EA2	Daily Technical Offer Data – Standard Units
Commercial Offer Data - Demand Side Unit Nomination Profiles_WD1	Daily Commercial Data Demand Side Unit Nomination Profiles
Commercial Offer Data - Generator Unit Nomination Profiles_WD1	Daily Commercial Data Generator Unit Nomination Profiles
Commercial Offer Data - Interconnector Units_WD1	Daily Commercial Offer Data – Interconnector Units
Commercial Offer Data - Standard Demand Site Unit_WD1	Daily Commercial Offer Data – Standard Demand Side Unit
Commercial Offer Data - Standard Generator Unit_WD1	Daily Commercial Offer Data – Standard Generator Unit
Ex-Ante Indicative Market Schedule_WD1	Daily Ex-Ante Market Schedule Detail (Public)
Ex-Ante Indicative Shadow Prices_WD1	Daily Ex-Ante Indicative Shadow Prices
Ex-Ante Market Schedule Summary_WD1	Daily Ex-Ante Market Schedule Summary

⁵ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

⁶ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

GPUD Static Report Publication Name	MPUD Report Name
Technical Offer Data - Demand Side Units_WD1	Daily Technical Offer Data – Demand Side Units
Technical Offer Data - Forecast Data_WD1	Daily Technical Offer Data – Forecast Data
Technical Offer Data - Standard Units_WD1	Daily Technical Offer Data – Standard Units
Dispatch Instructions	Daily Dispatch Instructions (D+1)
Ex-Post Indicative Market Schedule Quantity	Daily Indicative Ex-Post Market Schedule Quantity
Ex-Post Indicative Shadow Prices	Daily Ex-Post Indicative Shadow Prices
Ex-Post Indicative SMPs	Daily Indicative Ex-Post Market Prices
Dispatch Instructions D3	Daily Dispatch Instructions (D+3)
Energy Limited Generator Unit	Daily Energy Limited Generator Unit Technical Characteristics Data Transaction
Ex-Post Initial Actual Load Summary	Daily Ex-Post Initial Actual Load Summary
Ex-Post Initial Market Schedule Quantity	Daily Initial Ex-Post Market Schedule Quantity
Ex-Post Initial Shadow Prices	Daily Ex-Post Initial Shadow Prices
Ex-Post Loss of Load Probability Forecast	Daily Ex-Post Loss of Load Probability
Initial SMPs	Daily Initial Ex-Post Market Prices
Interconnector Available Transfer Capacities	Daily Revised Interconnector ATC Data
Modified Interconnector Unit Nominations	Daily Revised Interconnector Modified Nominations
Price-affecting Metered Data	Daily Price-affecting Metered Data
SO Interconnector Trades	Daily SO Interconnector Trades
Generator Unit Under Test Notice (Under Test Flag is included in COD Nomination Profile reports: S.9,S.10,S.27, S.28, S.39, S.40)	Daily Commercial Data Demand Side Unit Nomination Profiles Daily Commercial Data Generator Unit Nomination Profiles
Ex-Post Indicative Energy Payments	Energy Market Financial Publication
Ex-Post Indicative Metered Generation and NIJI	Meter Generation Information Publication
Ex-Post Indicative Tolerances and Dispatch Offer Price	Energy Market Information Publication
Ex-Post Initial Energy Payments	Energy Market Financial Publication
Ex-Post Initial Metered Generation and NIJI	Meter Generation Information Publication
Ex-Post Initial Tolerances and Dispatch Offer Price	Energy Market Information Publication
System Frequency	Daily SO System Frequency
Ex-Post Indicative Capacity Information	Capacity Market Information Publication

GPUD Static Report Publication Name	MPUD Report Name
Ex-Post Indicative Capacity Payments	Capacity Market Financial Publication
Ex-Post Initial Capacity Information	Capacity Market Information Publication
Ex-Post Initial Capacity Payments	Capacity Market Financial Publication
Annual Aggregated Load Forecast	Annual Aggregated Load Forecast

3.3.2 DYNAMIC REPORTS

The [Dynamic Reports](#) section allows users to view non-confidential historical market data.

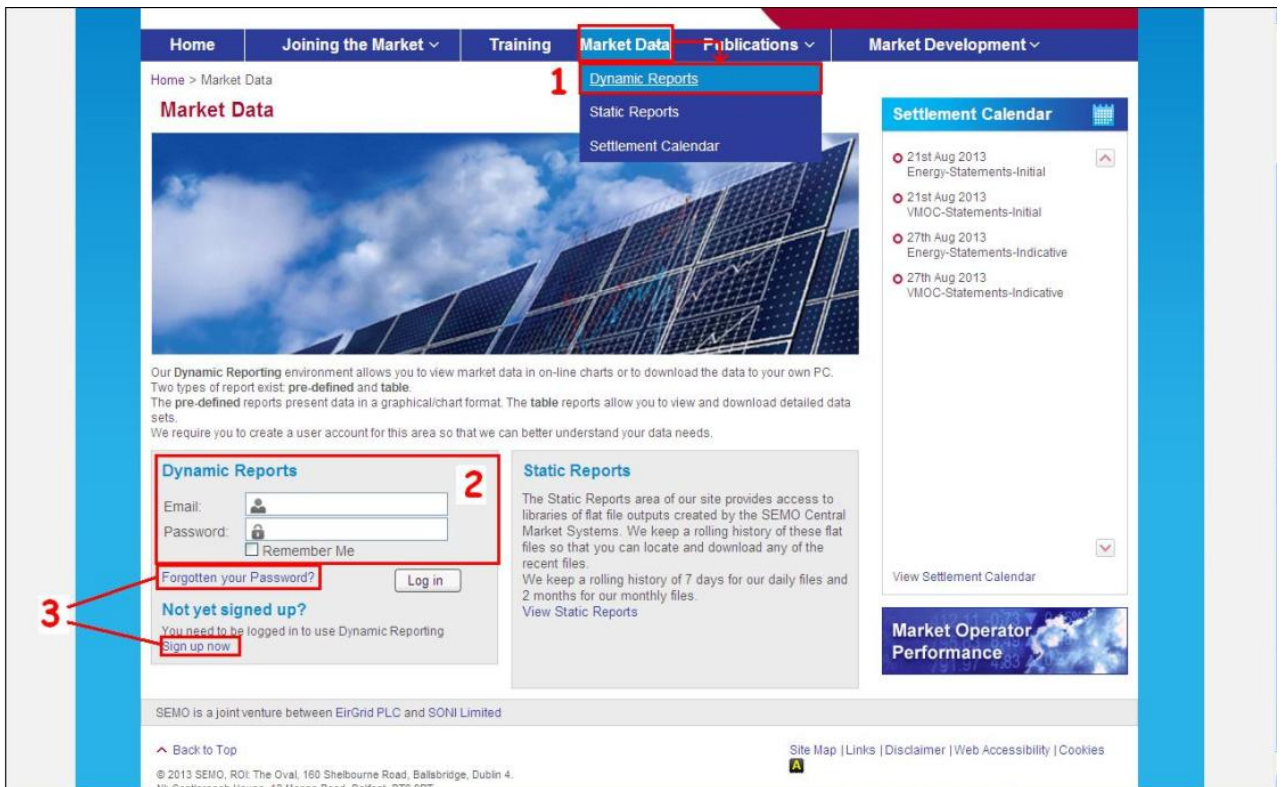
The majority of the market data is available from the start of the market in November 2007⁷.

Accessing Dynamic Reports

Dynamic reporting can be accessed in the [‘Market Data’](#) section of the SEMO website.

To access the Dynamic Reports section, the user firstly needs to needs to log in (2 in screenshot below).

To sign up for dynamic reporting (i.e. if you do not have a username or password for Dynamic Reporting or have forgot your password, then you need to click on the relevant links (3 in screenshot below).



Available Dynamic Reports

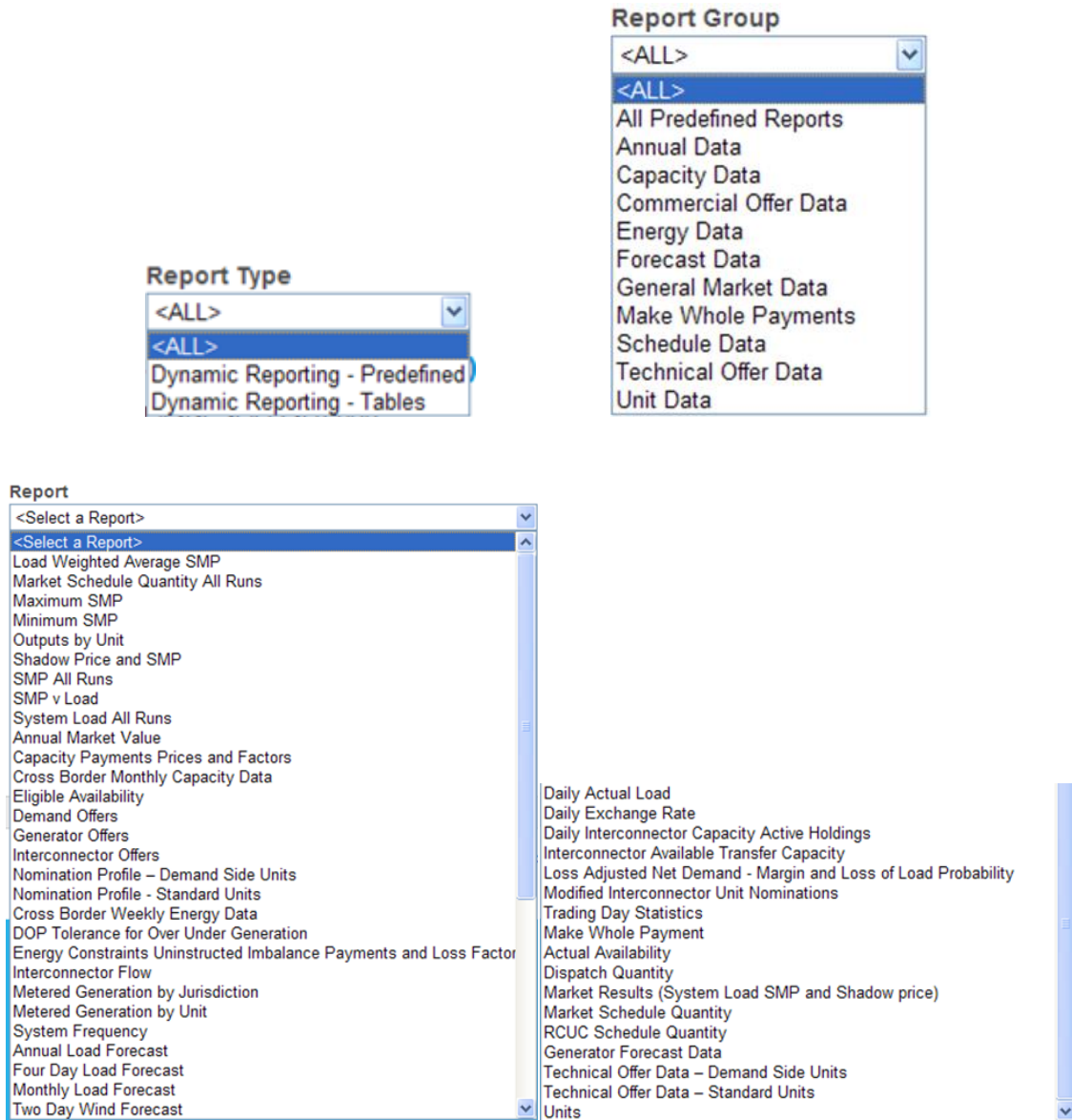
There are 46 different dynamic reports available. These reports are grouped under three selection criteria (filters):

- Report Type

⁷ There are a small number of exceptions to the historical data available. These are based on data feeds only being available from a certain release date.

- Report Group
- Report

The available options for each of these filters are shown below:



Under the 'Report Type' filter there are two options:

1. **Dynamic Reporting - Predefined** provide a small group of most commonly requested reports relating to System Marginal Price (SMP), Load and Generator Output. The data can be displayed in both chart and table format. These reports also contain calculated values, as opposed to raw data only, e.g. Load Weighted Average SMP.
2. **Dynamic Reporting – Tables** provide raw market data displayed as tables. This information contains no additional calculated / aggregated fields and has been taken directly from the market system data publication files.

3.3.2.1 Data Publication List

The following table summarises the data publications available from the Market Data – Dynamic Reports page.

Ref	Report Name	Report Type	Report Group
-----	-------------	-------------	--------------

Ref	Report Name	Report Type	Report Group
D.1	Load Weighted Average SMP	Predefined	All Predefined Reports
D.2	Market Schedule Quantity All Runs	Predefined	All Predefined Reports
D.3	Maximum SMP	Predefined	All Predefined Reports
D.4	Minimum SMP	Predefined	All Predefined Reports
D.5	Shadow Price and SMP	Predefined	All Predefined Reports
D.6	SMP All Runs	Predefined	All Predefined Reports
D.7	SMP v Load	Predefined	All Predefined Reports
D.8	System Load All Runs	Predefined	All Predefined Reports
D.9	Annual Market Value	Tables	Annual Data
D.10	Capacity Payments by Market	Tables	Capacity Data
D.10 a	Capacity Payments by Unit	Tables	Capacity Data
D.11	Cross Border Monthly Capacity Data	Tables	Capacity Data
D.12	Eligible Availability	Tables	Capacity Data
D.13	Demand Offers	Tables	Commercial Offer Data
D.14	Generator Offers	Tables	Commercial Offer Data
D.15	Interconnector Offers	Tables	Commercial Offer Data
D.16	Nomination Profile – Demand Side Units	Tables	Commercial Offer Data
D.17	Nomination Profile – Standard Units	Tables	Commercial Offer Data
D.18	Cross Border Weekly Energy Data	Tables	Energy Data
D.19	DOP Tolerance for Over/Under Generation	Tables	Energy Data
D.20	Energy/Constraints/Uninstructed Imbalance Payments and Loss Factors	Tables	Energy Data
D.21	Interconnector Flow	Tables	Energy Data
D.22	Metered Generation by Jurisdiction	Tables	Energy Data
D.23	Metered Generation by Unit	Tables	Energy Data
D.45	System Frequency	Tables	Energy Data
D.25	Two Day Wind Forecast ⁸	Tables	Forecast Data
D.26	Annual Load Forecast	Tables	Forecast Data
D.27	Four Day Load Forecast	Tables	Forecast Data
D.28	Monthly Load Forecast	Tables	Forecast Data

⁸ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

Ref	Report Name	Report Type	Report Group
D.29	Daily Actual Load	Tables	General Market Data
D.30	Daily Exchange Rate	Tables	General Market Data
D.31	Daily Interconnector Capacity Active Holdings	Tables	General Market Data
D.32	Interconnector Available Transfer Capacity	Tables	General Market Data
D.33	Loss-Adjusted Net Demand – Margin and Loss of Load Probability	Tables	General Market Data
D.34	Modified Interconnector Unit Nominations	Tables	General Market Data
D.35	Trading Day Statistics	Tables	General Market Data
D.36	Make Whole Payment	Tables	Make Whole Payment
D.37	Actual Availability	Tables	Schedule Data
D.38	Dispatch Quantity	Tables	Schedule Data
D.39	Market Results (System Load, SMP and Shadow price)	Tables	Schedule Data
D.40	Market Schedule Quantity	Tables	Schedule Data
D.41	RCUC Schedule Quantity	Tables	Schedule Data
D.42	Generator Forecast Data	Tables	Technical Offer Data
D.43	Technical Offer Data – Demand Side Units	Tables	Technical Offer Data
D.44	Technical Offer Data – Standard Units	Tables	Technical Offer Data
D.45	Units	Tables	Unit Data

3.3.2.2 Query Limitations

When querying for data in dynamic reports, consideration should be given to your selection criteria, as this may result in retrieval of large quantities of data and long run times. The table below provides the date range limitations, considerations for your selection criteria and any restrictions on the historical data available:

Ref	Report Name	All Units Limit (Days)	One Unit Limit (Month)	Selection Criteria Considerations	Data History Limitations ⁹
D.1	Load Weighted Average SMP	31	n/a	'Run type' defaults to EA if no selection is made.	Data available from 14 th Dec; however, before 1 st Nov 2009, only EP2 data is available.
D.2	Market Schedule Quantity All Runs	1	n/a		Data available from 11 th Feb 2008
D.3	Maximum SMP	31	n/a	'Run type' defaults to EA if no selection is made.	Only EP2 data available before 14 th Dec 2007
D.4	Minimum SMP	31	n/a	'Run type' defaults to EA if no selection is made.	Only EP2 data available before 14 th Dec 2007
D.5	Shadow Price and SMP	1	n/a	'Run type' defaults to EA if no selection is made.	Shadow Price is only available from Jan 2009
D.6	SMP All Runs	1	n/a		Only EP2 data available before 14 th Dec 2007
D.7	SMP v Load	1	n/a	'Run type' defaults to EA if no selection is made.	EP2 System Load available from Jan 2009; all other runs available from Nov 2009
D.8	System Load All Runs	1	n/a		EP2 System Load available from Jan 2009; all other runs available from Nov 2009
D.9	Annual Market Value	n/a	n/a		Please note data reported in EUR for Financial year from 1 st October to 30 th of September
D.10	Capacity Payments by Market	366	24	Specify Run Type and/or decrease Date Range to improve retrieval time.	
D.10a	Capacity Payments by Unit	366	24	Specify Part/Unit, Run Type and/or decrease Date Range to improve retrieval time.	
D.11	Cross Border Monthly Capacity Data	n/a	n/a	Data only available on the last day of the month; if a range is specified in 'From & To Delivery Data' fields, that does not contain the last day of the month, the following message will be received : <i>'Your query returned no data'</i>	Data available in EUR from Dec 2010
D.12	Eligible Availability	16	12	'Run type' contains options for EP1 and EP2. Specify Part/Unit, Run Type and/or decrease Date Range to improve retrieval time	Data available from May 2010

⁹ All market historical days are available, unless otherwise specified

Ref	Report Name	All Units Limit (Days)	One Unit Limit (Month)	Selection Criteria Considerations	Data History Limitations ⁹
				Eligible Availability can only be retrieved if Capacity Settlement has been completed for that month	
D.13	Demand Offers	366	24	EP1 and EP2 are not applicable for this report. Commercial Offer Data is only submitted for EA, EA2 and WD1, therefore can only be retrieved for these Run Types. Currency of Prices is based on Jurisdiction (Roi = EUR; NI=GBP)	Data only available where DSU units are registered in SEMO (Feb 2008)
D.14	Generator Offers	31	12	EP1 and EP2 are not applicable for this report. Commercial Offer Data is only submitted for EA, EA2 and WD1, therefore can only be retrieved for these Run Types. Currency of Prices is based on Jurisdiction (Roi = EUR; NI=GBP)	Data available from 11th Feb 2008
D.15	Interconnector Offers	31	12	EP1 and EP2 are not applicable for this report. Commercial Offer Data is only submitted for EA, EA2 and WD1, therefore can only be retrieved for these Run Types. Currency of Prices is based on Jurisdiction (Roi = EUR; NI=GBP)	Data available from 11th Feb 2008
D.16	Nomination Profile - Demand Side Units	366	24		
D.17	Nomination Profile - Standard Units	31	24	Entries 'I' and 'DU' in Filter 'Resource Type' are not applicable for this report; if selected the following message will be retrieved: : <i>'Your query returned no data'</i> . Separate reports are available for Resource Types 'I' and 'DU'.	
D.18	Cross Border Weekly Energy Data	n/a	n/a	Data only available on the last day of the Billing Week (Saturday); if a range is specified in 'From & To Delivery Data' fields, that does not contain the last day of the Billing Week, the following message will be received: : <i>'Your query returned no data'</i>	Data available from Nov 2010
D.19	DOP Tolerance for Over/Under Generation	16	12	'Run type' contains options for EP1 and EP2. Specify Part/Unit, Run Type and/or decrease Date Range to improve retrieval time	
D.20	Energy/Constraints/Uninstructed Imbalance Payments and Loss Factors	16	12	Interconnector CLAFs are retrieved by selecting 'NA' in 'Jurisdiction' filter,	CLAFs were introduced in SEMO in Jan 2009. Previous to Jan 2009 values in the column 'CLAFs' contains Transmission Loss Factors TLAFs). SU units are included because they have a correspondent CLAF value, although currently set to 1.
D.21	Interconnector Flow	366	24	Specify Part/Unit and/or decrease Date Range to improve retrieval time	
D.22	Metered Generation by Jurisdiction	16	-n/a		REVLFI ROI available from Trade Date 5th June 2011;1 REVLFI NI available from Trade Date 11th Sep 2012

Ref	Report Name	All Units Limit (Days)	One Unit Limit (Month)	Selection Criteria Considerations	Data History Limitations ⁹
D.23	Metered Generation by Unit	16	12		
D.24	System Frequency	366	n/a		
D.25	Two Day Wind Forecast ¹⁰	31	12		Data available from 11th Feb 2008
D.26	Annual Load Forecast	3667	n/a		
D.27	Four Day Load Forecast	31	12		Data available from 11th Feb 2008
D.28	Monthly Load Forecast	366	n/a		Data available from 1 st Dec 2007
D.29	Daily Actual Load	366	24		Data available from 25 th May 2010
D.30	Daily Exchange Rate	366	n/a		Data available from 13th July 2012
D.31	Daily Interconnector Capacity Active Holdings	31	12		Data available from 11th Feb 2008
D.32	Interconnector Available Transfer Capacity	366	n/a		Data available from 11th Feb 2008
D.33	Loss-Adjusted Net Demand - Margin and Loss of Load Probability	366	n/a		Data available from 1 st May 2010
D.34	Modified Interconnector Unit Nominations	31	12		Data available from 11th Feb 2008
D.35	Trading Day Statistics	366	n/a		Data available from 15 th Dec 2007
D.36	Make Whole Payment	366	12	Data only available on the last day of the Billing Week (Saturday); if a range is specified in 'From & To Delivery Data' fields, that does not contain the last day of the Billing Week, the following message will be received : <i>'Your query returned no data'</i> Currency is EUR for ROI units (GU_4XXXX) and GBP for NI units (GU_5XXXX)	Data available from 15 th Dec 2007
D.37	Actual Availability	16	12	Specify Part/Unit, Run Type and/or decrease Date Range to improve retrieval time	Data available from 10 th Nov 2007
D.38	Dispatch Quantity	16	12		Data available from 1 st January 2010

¹⁰ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

Ref	Report Name	All Units Limit (Days)	One Unit Limit (Month)	Selection Criteria Considerations	Data History Limitations ⁹
D.39	Market Results (System Load, SMP and Shadow price)	185	24	Specify Run Type to increase date range for retrieval	SMP available from market start 1st Nov 2007; EP2 System Load and Shadow Price are available from 1st Jan 2009, all other runs available from Nov 2009.
D.40	Market Schedule Quantity	16	12	Specify Part/Unit, Run Type and/or decrease Date Range to improve retrieval time	Data available from 10 th Nov 2007
D.41	RCUC Schedule Quantity	16	12		Data available from 11th Feb 2008
D.42	Generator Forecast Data	31	24		Data available from 11th Jul 2012
D.43	Technical Offer Data - Demand Side Units	366	24		Data available from 11th Jul 2012
D.44	Technical Offer Data - Standard Units	366	24		Data available from 11th Jul 2012
D.45	Units	n/a	n/a	To retrieve the list of units currently in the Market leave the From and To Date blank. Details of unit effective dates and change of status will be in separate spreadsheets. These can be found in section 'General Publications' on the SEM-O website. The links are: http://www.sem-o.com/Publications/General/List%20of%20Registered%20Units.xls and http://www.sem-o.com/Publications/General/Registered%20Capacity%20Report.xls	

3.3.2.3 Output File Size Limitations

When querying for data in dynamic reports, there are also limitations on the volumes of data that can be exported to each of the available export file formats.

Export File Type	Size Limitation
XML file with report data	Dependent on settings. The following message will be displayed at the end of the exported data if export cannot be completed: <i>'Not enough storage is available to complete this operation.'</i>
CSV (comma delimited)	1,048,576 rows
Acrobat (PDF) file	Overall file size must be below ~10GB
MHTML (web archive)	MHTML format is not standardized as many applications display and save the file differently.
Excel	65,536 rows
TIFF file	Displayed page only is exported
Word	32MB limit on text only

Individual settings and application versions might affect timings and workability of exported files. Please bear this in mind when trying to export large volumes of data.

The suggested download format would be **CSV rather than Excel** where the aim is to export large volumes of data. This is not only because of the larger row count that CSV can export, but faster response times and it avoids issues with merged data due to the additional header details that Excel exports include.

Limitations on the query data ranges and available historical data are provided in Appendix A.

3.3.2.4 Output File Formats

Output File formats for each of the dynamic reports are provided in Appendix A.

3.3.3 SETTLEMENT CALENDAR

The Settlement Calendar provides details around:

- when Statements and Invoices are due to be published; and
- when Payments are due to SEMO or will be paid out by SEMO.

The calendar also shows when re-pricing events are scheduled and deadlines for meter data provision.

To identify upcoming Settlement events:

To identify scheduled settlement events that will occur over the following week.

1. Enter 'Operational Date From' and 'Operational Date To' (dd/mm/yyyy)

Note: *Operational Date refers to the actual calendar day that the publications or deadlines apply to. The Trading Day or Settlement Day of the publication is provided in 'Period End Date' column.*

2. Click 'Find'

3. The results will appear in the table at the bottom of the page

Settlement Calendar

Operational Date From: 10/09/2013
 Operational Date To: 10/09/2013
 Modified From:

Market: --- select ---
 Publication: --- select ---
 Run: --- select ---

Find Clear

Operational Date	Market	Publication	Run	Period Type	Period End Date	Modified	Comments
10/09/2013	Energy	Statements	Indicative	Day	09/09/2013	18/01/2013 16:21	Published by 17:00
10/09/2013	Energy	Statements	Initial	Day	03/09/2013	18/01/2013 16:21	Published by 12:00
10/09/2013	VMOC	Statements	Indicative	Day	09/09/2013	18/01/2013 16:26	Published by 17:00
10/09/2013	VMOC	Statements	Initial	Day	03/09/2013	18/01/2013 16:26	Published by 12:00
10/09/2013	Capacity	Invoices	Initial	Month	31/08/2013	18/01/2013 17:02	August
10/09/2013	Capacity	Statements	Initial	Month	31/08/2013	18/01/2013 17:02	Published by 12:00

[Export to Excel](#)

4. To narrow your search results select the relevant options under the 'Market', 'Publication' and 'Run' filters

Market: --- select ---
 Publication: --- select ---
 Run: --- select ---

5.

To view updates to the Settlement Calendar:

To view updates to the calendar since the last time you viewed it

1. Remove the defaulted 'Operational Date From' and leave the selection blank
2. Add the date you last looked at the calendar to the 'Modified From' (dd/mm/yyyy) filter
3. Click 'Find'
4. The results will appear in the table at the bottom of the page
5. To narrow your search results select the relevant options under the 'Market', 'Publication' and 'Run' filters

Home > Market Data > Settlement Calendar

Settlement Calendar

Operational Date From Market Publication Run

Operational Date To

Modified From

<< Page: 1 of 2 >>

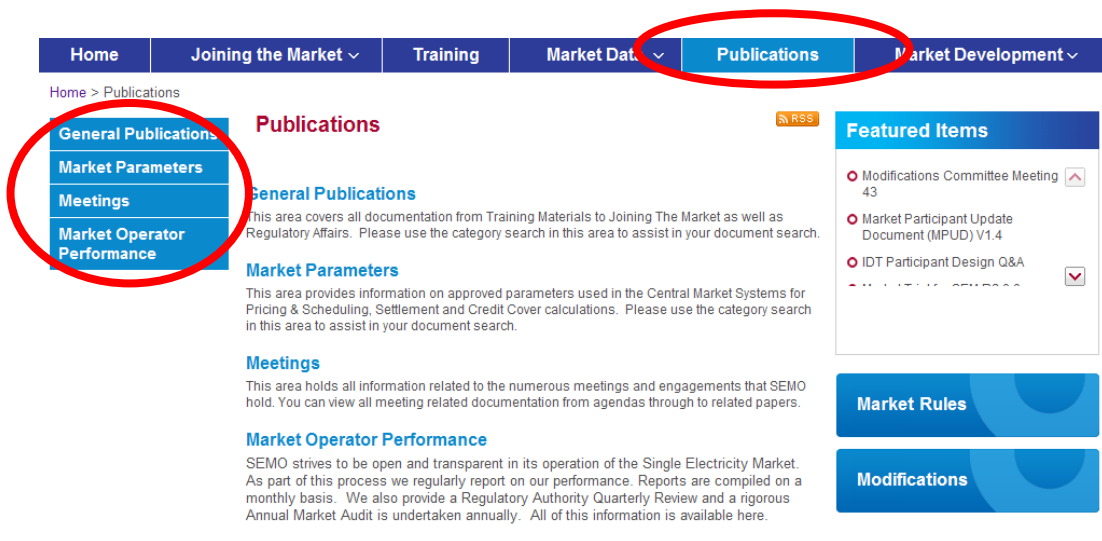
Operational Date	Market	Publication	Run	Period Type	Period End Date	Modified	Comments
11/10/2013	Energy	Re-Pricing	Ad hoc	Day	05/11/2012	10/09/2013 11:58	Published by 17:00
11/10/2013	Energy	Re-Pricing	Ad hoc	Day	07/11/2012	10/09/2013 11:58	Published by 17:00
17/10/2013	Energy	Statements	Ad hoc	Day	10/11/2012	10/09/2013 12:41	Week 45 2012
18/10/2013	Energy	Re-Pricing	Ad hoc	Day	12/12/2012	10/09/2013 12:01	Published by 17:00
18/10/2013	Energy	Re-Pricing	Ad hoc	Day	13/12/2012	10/09/2013 12:01	Published by 17:00
18/10/2013	Energy	Invoices	Ad hoc	Week	10/11/2012	10/09/2013 12:41	Week 45 2012
23/10/2013	Energy	Payments IN	Ad hoc	Week	10/11/2012	10/09/2013 12:41	Payment in by 12:00

3.4 PUBLICATIONS

Items in the [Publications](#) section of the SEMO website are a mixture of decision papers, forms, reports and summary documents.

Within Publications there are three areas used to provide data publications.

1. [General Publications](#) - This section contains a range of general documentation related to the SEM. This includes a small number of data related publications.
2. [Market Parameters](#) - This section provides information on approved parameters used in the Central Market Systems for Pricing & Scheduling, Settlement and Credit Cover calculations. It includes some documents that are classified as data publications.
3. [Market Operator Performance](#) - This section provides information on the performance of the market (SEM) and the market operator (SEMO).



Both the 'General Publications' and 'Market Parameters' pages have similar filters available. These include document names, category, uploaded from and to dates and archive status.

3.4.1 DATA PUBLICATION LIST

The following table summarises the data publications available from the Publications web pages.

Notes:

- Many individual parameters are presented in the List of Publications but a number of these are generally collated and published together in a single document. An example of this is publications P.22 to P.24, relating to Market Price Cap, Floor and Value of Lost Load, which are all published in the SEM-xx-xxx Decision Paper on Policy Parameters yyyy.pdf
- File naming standards are the current standards in use, older files may have used different naming standards.

Ref	Name	Format	Location	Category	Filename
P.1	Credit Cover Providers that have met the Banking Eligibility Requirements	PDF	Market Parameters	Credit Risk Management Document	Credit Cover Providers Proven yyyyymmdd.pdf
P.2	Future VAT rate for Credit Calculations	PDF	Market Parameters	Credit Risk Management Document	Future VAT rates for Required Credit Cover.pdf
P.3	Name of Members Panel of dispute board – DRB	PDF	General Publications	Regulatory Affairs	Dispute Resolution Panel.pdf
P.4	Loss of Load Probability Table	Excel	Market Parameters	Capacity Settlement Document	yyyy Loss of Load Probability Table.xls
P.5	SMP Uplift Parameters (Value of Uplift Alpha, Beta and Delta)	PDF	General Publications	Regulatory Affairs	SEM-xx-xxx Decision Paper on Policy Parameters yyyy.pdf
P.6	Interconnector Capacity Slack Variables	PDF	General Publications	Regulatory Affairs	IC Capacity Slack Variables.pdf
P.7	Generator Suspension Delay Period	PDF	General Publications	Regulatory Affairs	Suspension Delay Periods - Decision Letter to MO.pdf
P.8	Registration Form – Party	DOC	General Publications	Joining the Market	Application Form for Party Registration.doc
P.9	Registration Form – Participant	DOC	General Publications	Joining the Market	Participation Notice.doc Interconnector Unit Participation Notice.doc
P.10	Deregistration Form	PDF	General Publications	Joining the Market	Deregistration Form.pdf

Ref	Name	Format	Location	Category	Filename
P.11	Form of Authority (for Intermediary)	DOC	General Publications	Joining the Market	Form of Authority.doc
P.12	Collateral Reserve Account bank account mandate	DOC	General Publications	Joining the Market	Form to Open SEM Collateral Reserve Account.doc
P.13	List of Parties, Participants and each of their Generator Units and Supplier Units	PDF/ Excel	General Publications	Joining the Market	Registered Participants.pdf Registered Participants.xls
P.14	Making or Lifting of a Suspension Order	PDF	General Publications	Regulatory Affairs	Suspension Order for xxxxxxx.pdf
P.15	Termination Order	PDF	General Publications	Regulatory Affairs	Termination Order for xxxxxxx.pdf
P.16	Details of the Accession Fees and Participation Fees	Word/ /PDF/ Webpage	General Publications	Joining the Market	Application Form for Party Registration.doc Participation Notice.doc Interconnector Unit Participation Notice.doc yyyy-yy SEMO Tariffs and Imperfections Costs.pdf Webpage
P.17	Supplier Suspension Delay Period	PDF	General Publications	Regulatory Affairs	Suspension Delay Periods - Decision Letter to MO.pdf
P.18	Calculations and methodology used by the Market Operator during Administered Settlement	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx SEMO Administered Settlement Policy vx.x.pdf
P.19	Annual Capacity Exchange Rate	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Note on TSC Annual Capacity Exchange Rate 2013.pdf
P.20	Annual Load Forecast (by Jurisdiction)	XML*	Market Parameters	General Document	Annual Load Forecasts_YYYY0101_YYYYMMDD_hhmmss.xml.zip
P.21	Annual Capacity Payment Sum	PDF	General Publications	Regulatory Affairs	SEM xx-xxx Decision Paper on Annual Capacity Payment Sum yyyy.pdf
P.22	Market Price Cap	PDF	General Publications	Regulatory Affairs	SEM-xx-xxx Decision Paper on Policy Parameters yyyy.pdf
P.23	Market Price Floor	PDF	General Publications	Regulatory Affairs	SEM-xx-xxx Decision Paper on Policy Parameters yyyy.pdf

Ref	Name	Format	Location	Category	Filename
P.24	Value of Lost Load	PDF	General Publications	Regulatory Affairs	SEM-xx-xxx Decision Paper on Policy Parameters yyyy.pdf
P.25	Fixed Market Operator Charge (Supplier Unit)	PDF	General Publications	Regulatory Affairs	yyyy-yy SEMO Tariffs and Imperfections Costs.pdf
P.26	Fixed Market Operator Charge (Generator Unit)	PDF	General Publications	Regulatory Affairs	yyyy-yy SEMO Tariffs and Imperfections Costs.pdf
P.27	Variable Market Operator Price	PDF	General Publications	Regulatory Affairs	yyyy-yy SEMO Tariffs and Imperfections Costs.pdf
P.28	Capacity Period Payment Sum	PDF	General Publications	Regulatory Affairs	Capacity Period Payment Sum (CPPSc) for each Capacity Period in yyyy.pdf
P.29	Fixed Capacity Payment Proportion	PDF	General Publications	Regulatory Affairs	SEM-xx-xxx Decision Paper on FCPPy and ECPPy for Trading Year yyyy.pdf
P.30	Ex-Post Capacity Payment Proportion	PDF	General Publications	Regulatory Affairs	SEM-xx-xxx Decision Paper on FCPPy and ECPPy for Trading Year yyyy.pdf
P.31	Engineering Tolerance	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.32	MW Tolerance	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.33	System per Unit Regulation Parameter	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.34	Discount for Over Generation and Premium for Under Generation	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.35	Fixed Capacity Payments Weighting Factor for each Trading Period in the relevant Year	PDF	Market Parameters	Capacity Document	Fixed Capacity Payments Weighting Factor FCPWF yyyy.xls
P.36	Terms of Reference for Market Operator Audit	PDF	General Publications	Regulatory Affairs	AIP-SEM-xx-x Terms of Reference for Market Audit Decision.pdf
P.37	Audit Report	PDF	Market Operator Performance > Audit		Market Audit Report yyyy.pdf

Ref	Name	Format	Location	Category	Filename
P.38	Transmission Loss Adjustment Factors	PDF/ Excel*	Market Parameters	Energy Settlement Document	yyyy CLAF SONI.xls yyyy-yyyy ROI Market Participant CLAFs DLAFs TLAfs dd.mm.yy.xls yyyy-yyyy ROI Market Participant CLAFs DLAFs TLAfs dd.mm.yy.pdf
P.39	Imperfections Price	PDF	General Publications	Regulatory Affairs	yyyy-yy SEMO Tariffs and Imperfections Costs.pdf
P.40	Imperfections Charge Factor	PDF	General Publications	Regulatory Affairs	yyyy-yy SEMO Tariffs and Imperfections Costs.pdf
P.41	Testing Tariff	PDF	Market Parameters	Energy Settlement Document	SEM-xx-xxx Testing Tariffs Decision Paper.pdf
P.42	Schedule of Testing Tariffs	PDF	Market Parameters	Energy Settlement Document	SEM-xx-xxx Testing Tariffs Decision Paper.pdf
P.43	Fixed Credit Requirement	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.44	Historical Assessment Period for the Billing Period	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.45	Historical Assessment Period for the Capacity Period	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.46	Analysis Percentile Parameter	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.47	Credit Cover Adjustment Trigger	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.48	Maximum level of Warning Limit	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.49	Annual Maintenance Schedule - Transmission Line Outages	PDF	General Publications	Maintenance and Outages	All-Island Annual Transmission Outage Program for Mmm yyyy to Mmm yyyy.pdf
P.50	Annual Maintenance Schedule - Generator Outages Schedule	PDF	General Publications	Maintenance and Outages	yyyy All-Island Generation Outages Plan vx.xls

Ref	Name	Format	Location	Category	Filename
P.51	Flattening Power Factor	PDF	General Publications	Regulatory Affairs	SEM-yy-xxx Decision Paper on Operational Parameters yyyy.pdf
P.52	Any important updates to Maintenance Schedule (Generator and Transmission) Data Transaction (Appendix J)	Excel/PDF	General Publications	Maintenance and Outages	All-Island Generation Outages Mmm-Mmm yy.xls All-Island Annual Transmission Outage Program for mmm yyyy to mmm yyyy.pdf
P.53	Variable Capacity Payments Weighting Factor	PDF/XLS	Market Parameters	Capacity Settlement Document	Variable Capacity Payments Weighting Factors – mmmmmm yyyy.xls Variable Capacity Payments Weighting Factors – mmmmmm yyyy.pdf
P.54	Credit Assessment Price for the Undefined Exposure Period for the Billing Periods	PDF	Market Parameters	Credit Risk Management Parameters	Daily Credit Parameters_yyyymmdd.pdf
P.55	Estimated Capacity Price for the Undefined Exposure Period for Capacity Periods, ECP	PDF	Market Parameters	Credit Risk Management Parameters	Daily Credit Parameters_yyyymmdd.pdf
P.56	Global Settlement Residual Meter Volume	PDF	General Publications	Regulatory Affairs	CER Global Settlement Residual Meter Volume.pdf
P.57	Market Operator Performance Report	PDF	Market Operator Performance	Monthly	Monthly Market Operator Report – Mmmmm yyyy.pdf
P.58	Registered Capacity	PDF	General Publications	Joining the Market	Registered Capacity.pdf

*Formats for these reports can be found in the Appendices

3.5 AUTOMATED DATA PUBLICATION RETRIEVAL

3.5.1 WEBSERVICES

SEMO provides the facility to retrieve some data publications via an automated interface, known as “Web Services”. These Web Services can be used to automate the collection of market data available via this service, this is the preferred automated data retrieval method.

File Retrieval and Formats

Full details of how to setup and retrieve market data via the web services is provided in '[SEMO Website Automated Interfaces Specification – Web Services](#)'. This document also outlines the file formats and query limits applicable to web service retrieval.

Web Services Reports

The list of Web Service data publications is provided below:

Ref	Publication Name
W.1	Demand Offer Data
W.2	Market Schedule Quantities Data
W.3	Actual Availability data
W.4	Daily Actual Load
W.5	Dispatch Quantity
W.6	Market Schedule Quantity Data (selection by Participant and/or Unit)
W.7	Generator Offers Data
W.8	Interconnector Offer Data
W.9	Market Prices and Load Results
W.10	SMP Results
W.11	Capacity Information
W.12	Capacity Payments
W.13	Metered Generation by Unit
W.14	Metered Generation by Jurisdiction
W.15	Daily Dispatch Instructions D+3
W.16	Settlements Calendar

3.5.2 FTP SERVICES

SEMO also, currently, provides the facility to retrieve some data publications via an interface, known as “FTP Services”.

File Retrieval and Formats

The FTP Services are provided as a file transfer site allowing parties to access some (but not all) of the general public information on the SEM. Reports are available in XML, CSV and ZIP file formats. Users can connect to the FTP site and use the service as a data source for their own systems.

Full details of how to setup and retrieve market data via the FTP Services is provided in [‘SEMO FTP Services Specification’](#).

FTP Services Reports

The list of F Service data publications is provided below:

Ref ID	Publication Name
F.1	Daily Interconnector ATC
F.2	Daily Four Day Rolling Load Forecast and Assumptions
F.3	Daily Aggregated Load Forecasts
F.4	Ex-Ante Market Schedule Summary
F.5	Ex-Ante Indicative Shadow Prices
F.6	Two Day Rolling Wind Power Unit Forecast aggregated by Jurisdiction ¹¹
F.7	Commercial Offer Data Transactions
F.8	Ex-Ante Indicative Market Schedule
F.9	Demand Control Data Transaction
F.10	Technical Offer Data Transactions
F.11	Modified Interconnector Unit Nominations
F.12	Daily Dispatch Instructions
F.13	Ex-Post Indicative Market Schedule Quantity
F.14	Ex-Post Indicative SMPs
F.15	Ex-Post Indicative Shadow Prices
F.16	Interconnector Capacity Active Holdings
F.17	Initial SMPs
F.18	Ex-Post Initial Actual Load Summary
F.19	Ex-Post Initial Shadow Prices

¹¹ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

Ref ID	Publication Name
F.20	Interconnector Available Transfer Capacities
F.21	Ex-Post Initial Market Schedule Quantity
F.22	Energy Limited Generator Unit Technical Characteristics Data Transaction
F.23	Generator Unit Technical Characteristics Data Transaction
F.24	SO Interconnector Trades
F.25	Ex-Post Loss of Load Probability Forecast
F.26	All Price-affecting Metered Data, excluding Trading Site Supplier Units for Trading Sites with Non-firm Access for all available Trading Periods
F.27	Daily Trading Day Exchange Rate
F.28	Ex-Ante Indicative Operations Schedule
F.29	Daily SO System Frequency, NORFRQ, AVGFRQ
F.30	Net Inter Jurisdictional Import for all available Trading Periods - Indicative
F.31	Ex-Post Indicative Energy Payments to Generator Units
F.32	Indicative Dispatch Offer Price
F.33	Indicative Tolerance for Over Generation and Tolerance for Under Generation
F.34	Ex-Post Initial Energy Payments to Generator Units
F.35	Initial Dispatch Offer Price
F.36	Initial Tolerance for Over Generation and Tolerance for Under Generation
F.37	Net Inter Jurisdictional Import for all available Trading Periods - Initial
F.38	Ex-Post Indicative Capacity Payments to each Generator Unit
F.39	Indicative Eligible Availability
F.40	Indicative Ex-Post Capacity Payments Weighting Factor
F.41	Initial Capacity Payments to each Generator Unit
F.42	Initial Eligible Availability
F.43	Initial Ex-Post Capacity Payments Weighting Factor
F.44	Initial Ex-Post Loss of Load Probability
F.45	Initial Ex-Post Margin
F.46	Loss of Load Probability for each Trading Period in the relevant Month
F.47	Monthly Load Forecast and Assumptions
F.48	Monthly Aggregated Load Forecasts
F.49	Annual Load Forecast

Ref ID	Publication Name
F.50	Annual Aggregated Load Forecast

4 APPENDIX A – DYNAMIC REPORTING FILE FORMATS

Appendix A provides details of the Dynamic Reporting output file formats.

4.1.1 DYNAMIC REPORTS – OUTPUT FILE FORMATS

D.1 Load Weighted Average SMP

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report.
Currency	CHAR(1)	Euro (EUR) or Sterling Pound (GBP).
LWA	NUMBER(8,3)	Load Weighted Average System Marginal Price for Trading Day
Seven Day LWA	NUMBER(8,3)	Average Load Weighted Average System Marginal Price for the last 7 Trading Days

D.2 Market Schedule Quantity All Runs

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report.
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as “Day” in the Code).
Delivery Time	NUMBER(2)	The start time of the relevant half hour Trading Period
MSQ	NUMBER(8,3)	Aggregate Market Schedule Quantity.

D.3 Maximum SMP

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report.
Currency	CHAR(1)	Euro (EUR) or Sterling Pound (GBP).
SMP	NUMBER(8,2)	Maximum System Marginal Price for Trading Day
Seven Day SMP	NUMBERS(8,3)	Average System Marginal Price for the last 7 Trading Days

D.4 Minimum SMP

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Currency	CHAR(1)	Euro (EUR) or Sterling Pound (GBP).
SMP	NUMBER(8,2)	Minimum System Marginal Price for the Trading Day
Seven Day SMP	NUMBERS(8,3)	Average System Marginal Price for the last 7 Trading Days

D.5 Shadow Price and SMP

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Currency	CHAR(1)	Euro (EUR) or Sterling Pound (GBP).
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Time	NUMBER(2)	The start time of the relevant half hour Trading Period
SMP	NUMBER(8,2)	System Marginal Price for the Trading Period
Shadow Price	NUMBER(8,2)	The additional cost of delivering an additional MW of energy in addition to the value of Schedule Demand. This is generally the price for the marginal Generating Unit.

D.6 SMP All Runs

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Currency	CHAR(1)	Euro (EUR) or Sterling Pound (GBP).
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Time	NUMBER(2)	The start time of the relevant half hour Trading Period
SMP	NUMBER(8,3)	System Marginal Price for the Trading Period

D.7 SMP v Load

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report

Heading Name	Format	Description
Currency	CHAR(1)	Euro (EUR) or Sterling Pound (GBP).
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Time	NUMBER(2)	The start time of the relevant half hour Trading Period
SMP	NUMBER(8,3)	System Marginal Price for the Trading Period
SYSTEM LOAD	NUMBER(8,3)	Total system load (MW) for the Trading Period

D.8 System Load All Runs

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Time	NUMBER(2)	The start time of the relevant half hour Trading Period
System Load	NUMBER(8,3)	Total system load (MW) for the Trading Period

D.9 Annual Market Value

Heading Name	Format	Description
YEAR	VARCHAR(4)	Year relates to the SEM financial year Oct to September. e.g. Year 2013 is for the period from Oct 2012 to September 2013
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
Energy Payments	NUMBER(28,8)	Energy Payments are payable in respect of each Generator Unit for each Trading Period in €/MWh. Energy Payments are calculated as follows: Loss-Adjusted Market Schedule Quantity x System Marginal Price. This is the total figure for Energy Payments for a financial year for Standard Generators and Interconnector Units
Capacity Payments	NUMBER(28,8)	Capacity Payments are made in respect of each Generator Unit on the basis of its Loss-Adjusted Eligible Availability in each Trading Period in €/MWh. This is the total figure for Capacity Payments for a financial year for Standard Generators and Interconnector Units..

Heading Name	Format	Description
Constraint Payment	NUMBER(28,8)	Constraint Payments are made to each Participant in €/MWh in respect of each of its Generator Units in any Trading Period for which the Dispatch Production Cost differs from the Schedule Production Cost. This is the total figure for Constraint Payments for a financial year for Standard Generators and Interconnector Units .

D.10 Capacity Payments by Market

Heading Name	Format	Description
RESOURCE	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
CPGP	NUMBER(28,8)	Capacity Payment Generation Price
CPDP	NUMBER(28,8)	Capacity Payment Demand Price
FCGP	NUMBER(28,8)	Fixed Capacity Generation Price
ECGP	NUMBER(28,8)	Ex Ante Capacity Generation Price
VCPGP	NUMBER(28,8)	Variable Capacity Payment Generation Price
CPPF	NUMBER(28,8)	Capacity Payments Price Factor
FCPWF	NUMBER(28,8)	Ex Ante Variable Capacity Payment Weighting Factor
EAVWF	NUMBER(28,8)	Ex Ante Variable Capacity Payment Weighting Factor
VCPWF	NUMBER(28,8)	Variable Capacity Payments Weighting Factor (Known as VCPWF in MPUD & TSC)

D.10a Capacity Payments by Unit

Heading Name	Format	Description
RESOURCE	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Capacity Payments (CPIU, C PIEU, CPIUG, CP)	NUMBER(28,8)	CPIU – Capacity Payment for Interconnector Unit (C PIEU – Capacity Payment for Interconnect Error Unit CP – Capacity Payment for standard Generator Unit
Capacity Payments Generation Price Factor	NUMBER(28,8)	Capacity Payments Generation Price Factor

D.11 Cross Border Monthly Capacity Data

Heading Name	Format	Description
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code) (only available on Calendar day= Last day of the month)
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report

Heading Name	Format	Description
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Cross Border Capacity Import Proportion	NUMBER(28,8)	Cross Border Capacity Import Proportion
Cross Border Capacity Export Proportion	NUMBER(28,8)	Cross Border Capacity Export Proportion
Total Capacity Period Charge for Jurisdiction (EURO)	NUMBER(28,8)	Total Capacity Period Charge for Jurisdiction
Total Capacity Period Payment for Jurisdiction (EURO)	NUMBER(28,8)	Total Capacity Period Payment for Jurisdiction

D.12 Eligible Availability

Heading Name	Format	Description
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
PARTICIPANT ID	VARCHAR2(32)	The name of the resource (e.g. the name of the Generator Unit or Participant for which data is being reported).
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
CPEA	NUMBER(28,8)	Capacity Payments Eligible Availability. See CPEA on page 155 of MPUD 'Volume 2 Reporting', section 5.2.9 - Participant Capacity Payments Eligible Availability for Capacity Period
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.

D.13 Demand Offers

Heading Name	Format	Description
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Resource Type	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.

Heading Name	Format	Description
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Fuel Type	VARCHAR2(5)	<p>Possible Values and their meaning:</p> <p>OIL → Oil</p> <p>Dem → Demand Side Unit</p> <p>GAS → Gas</p> <p>COAL → Coal</p> <p>MULTI → Multi Fuel</p> <p>WIND → Wind¹²</p> <p>HYDRO → Hydro</p> <p>BIO → Biomass</p> <p>CHP → Combined Heat and Power</p> <p>PUMP → Pumped Storage</p> <p>PEAT → Peat</p> <p>DISTL → Distillate</p> <p>NUCLR → Nuclear</p> <p>NA → Not Applicable</p>
Trade Date	DATE(DD/MM/YYYY)	<p>A 24-hour period containing forty eight 30-minute trading periods, except on the clock change days in spring and autumn when the Trading Day will last for 23 and 25 hours respectively</p> <p>The first trading period of the trading day commences at 06:00hrs.</p>
Unit Under Test	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Shutdown Cost	NUMBER(8,2)	The costs associated with the Shut Down of a Demand Side Unit.
Price 1	NUMBER(8,2)	Price to schedule the unit to meet the associated (paired) MW Quantity.
Quantity 1	NUMBER(8,3)	Quantity in MW to which the associated (paired) price will apply when considered by the CMS.
Price 2	NUMBER(8,2)	Price for PQ pair 2
Quantity 2	NUMBER(8,3)	Quantity for PQ pair 2

¹² As a result of MOD_07_14 – Solar PV units are registered in the SEM with Fuel Type Wind. To identify which units are Solar PV you will need to refer to the current Registered_Capacity_Report published under General Publications on the SEMO website: <http://www.semo.com/Publications/Pages/GeneralPublications.aspx?documentarchivestatus=Active>

Heading Name	Format	Description
Price 3	NUMBER(8,2)	Price for PQ pair 3
Quantity 3	NUMBER(8,3)	Quantity for PQ pair 3
Price 4	NUMBER(8,2)	Price for PQ pair 4
Quantity 4	NUMBER(8,3)	Quantity for PQ pair 4
Price 5	NUMBER(8,2)	Price for PQ pair 5
Quantity 5	NUMBER(8,3)	Quantity for PQ pair 5
Price 6	NUMBER(8,2)	Price for PQ pair 6
Quantity 6	NUMBER(8,3)	Quantity for PQ pair 6
Price 7	NUMBER(8,2)	Price for PQ pair 7
Quantity 7	NUMBER(8,3)	Quantity for PQ pair 7
Price 8	NUMBER(8,2)	Price for PQ pair 8
Quantity 8	NUMBER(8,3)	Quantity for PQ pair 8
Price 9	NUMBER(8,2)	Price for PQ pair 9
Quantity 9	NUMBER(8,3)	Quantity for PQ pair 9
Price 10	NUMBER(8,2)	Price for PQ pair 10
Quantity 10	NUMBER(8,3)	Quantity for PQ pair 10
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.14 Generator Offers

Heading Name	Format	Description
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Generator Unit for which data is being reported).
Resource Type	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.

Heading Name	Format	Description
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Fuel Type	VARCHAR2(5)	<p>Possible Values and their meaning:</p> <p>OIL → Oil</p> <p>Dem → Demand Side Unit Gas → Gas</p> <p>COAL → Coal</p> <p>MULTI → Multi Fuel</p> <p>WIND → Wind¹³</p> <p>HYDRO → Hydro</p> <p>BIO → Biomass</p> <p>CHP → Combined Heat and Power</p> <p>PUMP → Pumped Storage</p> <p>PEAT → Peat</p> <p>DISTL → Distillate</p> <p>NUCLR → Nuclear</p> <p>NA → Not Applicable</p>
Trade Date	DATE(DD/MM/YYYY)	<p>A 24-hour period containing forty eight 30-minute trading periods, except on the clock change days in spring and autumn when the Trading Day will last for 23 and 25 hours respectively</p> <p>The first trading period of the trading day commences at 06:00hrs.</p>
Unit Under Test	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.
Priority Dispatch	CHAR(1)	'Y' for YES or 'N' for NO - Flag indicating if the unit is Priority Dispatch.
Pump Storage YN	CHAR(1)	'Y' for YES or 'N' for NO value generated based on whether the unit is a Pumped Storage Unit.
Energy Limit YN	CHAR(1)	'Y' for YES or 'N' for NO value generated based on whether the unit is an Energy Limited Unit.
Startup Cost Hot	NUMBER(8,2)	Cost to start-up when in hot warmth state.
Startup Cost Warm	NUMBER(8,2)	Cost to start-up when in warm warmth state.

¹³ As a result of MOD_07_14 – Solar PV units are registered in the SEM with Fuel Type Wind. To identify which units are Solar PV you will need to refer to the current Registered_Capacity_Report published under General Publications on the SEMO website: <http://www.semo.com/Publications/Pages/GeneralPublications.aspx?documentarchivestatus=Active>

Heading Name	Format	Description
Startup Cost Cold	NUMBER(8,2)	Cost to start-up when in cold warmth state.
No Load Cost	NUMBER(8,2)	The element of Operating Cost, expressed in €/hour or £/hour, submitted as part of Commercial Offer Data, that is invariant with the level of unit output and incurred at all times when the level of output is greater than zero.
Price 1	NUMBER(8,2)	Price to schedule the unit to meet the associated (paired) MW Quantity.
Quantity 1	NUMBER(8,3)	Quantity in MW to which the associated (paired) price will apply when considered by the CMS.
Price 2	NUMBER(8,2)	Price for PQ pair 2
Quantity 2	NUMBER(8,3)	Quantity for PQ pair 2
Price 3	NUMBER(8,2)	Price for PQ pair 3
Quantity 3	NUMBER(8,3)	Quantity for PQ pair 3
Price 4	NUMBER(8,2)	Price for PQ pair 4
Quantity 4	NUMBER(8,3)	Quantity for PQ pair 4
Price 5	NUMBER(8,2)	Price for PQ pair 5
Quantity 5	NUMBER(8,3)	Quantity for PQ pair 5
Price 6	NUMBER(8,2)	Price for PQ pair 6
Quantity 6	NUMBER(8,3)	Quantity for PQ pair 6
Price 7	NUMBER(8,2)	Price for PQ pair 7
Quantity 7	NUMBER(8,3)	Quantity for PQ pair 7
Price 8	NUMBER(8,2)	Price for PQ pair 8
Quantity 8	NUMBER(8,3)	Quantity for PQ pair 8
Price 9	NUMBER(8,2)	Price for PQ pair 9
Quantity 9	NUMBER(8,3)	Quantity for PQ pair 9
Price 10	NUMBER(8,2)	Price for PQ pair 10
Quantity 10	NUMBER(8,3)	Quantity for PQ pair 10
Target Resv Level MWH	NUMBER(5,3)	For Pumped Storage Units, Minimum Reservoir Level required at the end of the Trading Day.

Heading Name	Format	Description
Pump Storage Cyc Efy	NUMBER(7,4)	For Pumped Storage Units. The ratio between the gross electrical energy consumed to pump a given quantity of water from the lower reservoir to the upper reservoir and the net electrical energy sent out through the release of that quantity of water from the upper reservoir to the lower reservoir through the turbine-generators.
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.15 Interconnector Offers

Heading Name	Format	Description
Participant Name	CHAR(32)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Interconnector Unit for which data is being reported).
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Resource Type	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Trade Date	DATE(DD/MM/YYYY)	A 24-hour period containing forty eight 30-minute trading periods, except on the clock change days in spring and autumn when the Trading Day will last for 23 and 25 hours respectively The first trading period of the trading day commences at 06:00hrs.
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Gate Window	VARCHAR2(4)	Trading window applicable to the record
Priority Order	NUMBER(2)	Used to prioritise Interconnector Unit Bids (if more than one exists in the same jurisdiction) when calculating Available Credit Cover. Default value is 1.
Price 1	NUMBER(8,2)	Price to schedule the unit to meet the associated (paired) MW Quantity.

Heading Name	Format	Description
Quantity 1	NUMBER(8,3)	Quantity in MW to which the associated (paired) price will apply when considered by the CMS.
Price 2	NUMBER(8,2)	Price for PQ pair 2
Quantity 2	NUMBER(8,3)	Quantity for PQ pair 2
Price 3	NUMBER(8,2)	Price for PQ pair 3
Quantity 3	NUMBER(8,3)	Quantity for PQ pair 3
Price 4	NUMBER(8,2)	Price for PQ pair 4
Quantity 4	NUMBER(8,3)	Quantity for PQ pair 4
Price 5	NUMBER(8,2)	Price for PQ pair 5
Quantity 5	NUMBER(8,3)	Quantity for PQ pair 5
Price 6	NUMBER(8,2)	Price for PQ pair 6
Quantity 6	NUMBER(8,3)	Quantity for PQ pair 6
Price 7	NUMBER(8,2)	Price for PQ pair 7
Quantity 7	NUMBER(8,3)	Quantity for PQ pair 7
Price 8	NUMBER(8,2)	Price for PQ pair 8
Quantity 8	NUMBER(8,3)	Quantity for PQ pair 8
Price 9	NUMBER(8,2)	Price for PQ pair 9
Quantity 9	NUMBER(8,3)	Quantity for PQ pair 9
Price 10	NUMBER(8,2)	Price for PQ pair 10
Quantity 10	NUMBER(8,3)	Quantity for PQ pair 10
Max Import Capacity MW	NUMBER(8,3)	Maximum import capacity submitted for an Interconnector Unit per Trading Period This is used to calculate the upper output limit for Interconnector Units.
Max Export Capacity MW	NUMBER(8,3)	Maximum export capacity submitted for an Interconnector Unit per Trading Period This is used to calculate the lower output limit for Interconnector Units.
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.16 Nomination Profile - Demand Side Units

Heading Name	Format	Description
--------------	--------	-------------

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	A 24-hour period containing forty eight 30-minute trading periods, except on the clock change days in spring and autumn when the Trading Day will last for 23 and 25 hours respectively The first trading period of the trading day commences at 06:00hrs.
RESOURCE NAME	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
RESOURCE TYPE	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
UNDER TEST YN	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
NOMINATED QUANTITY	NUMBER(8,3)	Nomination Profile means the nominated profile in MW of Unit u in Trading Period h.
DECREMENTAL PRICE	NUMBER(8,2)	Submitted by MPs that are being treated as Price Takers, to account in settlements for the situation where they are constrained down.

D.17 Nomination Profile - Standard Units

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	A 24-hour period containing forty eight 30-minute trading periods, except on the clock change days in spring and autumn when the Trading Day will last for 23 and 25 hours respectively The first trading period of the trading day commences at 06:00hrs.
RESOURCE NAME	VARCHAR2(32)	The name of the resource (e.g. the name of the Generator Unit for which data is being reported).

Heading Name	Format	Description
RESOURCE TYPE	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
UNDER TEST YN	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
NOMINATED QUANTITY	NUMBER(8,3)	Nomination Profile means the nominated profile in MW of Unit u in Trading Period h.
DECREMENTAL PRICE	NUMBER(8,2)	Submitted by MPs that are being treated as Price Takers, to account in settlements for the situation where they are constrained down.

D.18 Cross Border Weekly Energy Data

Heading Name	Format	Description
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
CBEEP	NUMBER(16,8)	Cross Border Capacity Export Proportion
CBEIP	NUMBER(16,8)	Cross Border Capacity Import Proportion
SWJMGLF	NUMBER(16,8)	Loss Adjusted Weekly Total Jurisdiction Generation
SWJNDLF	NUMBER(16,8)	Loss Adjusted Weekly Total Jurisdiction Net Demand

D.19 DOP Tolerance for Over/Under Generation

Heading Name	Format	Description
PART UNIT	VARCHAR2(32)	The name of the resource (e.g. the name of the Generator Unit for which data is being reported).

Heading Name	Format	Description
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
DOP	NUMBER(16,8)	Dispatch Offer Price for each Generator Unit for each Trading Period
TOLOGLF	NUMBER(16,8)	Loss-Adjusted Tolerance for Over Generation for Generator Unit for each Trading Period
TOLUGLF	NUMBER(16,8)	Loss-Adjusted Tolerance for Under Generation for Generator Unit for each Trading Period

D.20 Energy/Constraints/Uninstructed Imbalance Payments and Loss Factors

Heading Name	Format	Description
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
RESOURCE	VARCHAR2(32)	The name of the resource (e.g. the name of the Generator Unit for which data is being reported).
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Energy Payments (ENP / ENPIU)	NUMBER(28,8)	ENP – Energy Payment to Generator Unit ENPIU – Energy Payment to Interconnector Unit
Constraint Payments (CONP / CONPVPTG / CONPDPPT / CONPUPPT / CONPIU)	NUMBER(28,8)	CONP – Constraint Payment to Generator Unit CONPIU – Constraint Payment to Interconnect Unit CONPVPTG - Constraint Payment to Variable Price Takers Generator Unit CONPDPPT/ CONPUPPT - Constraint Payment to Predictable Price Takers Generator Unit (Down or Up)

Heading Name	Format	Description
UI Payments for Over Generation (UNIMBPOV / UNIMBPOV_PPT / UNIMBPOVIEU)	NUMBER(28,8)	UNIMBPOV/ UNIMBPOV_PPT/ UNIMBPOVIEU – Uninstructed Imbalance Payment for Over-Generation for Generator Units/Predictable Price Takers/Interconnector Error Units
UI Payments for Under Generation (UNIMBPUD / UNIMBPUD_PPT / UNIMBPUDIEU)	NUMBER(28,8)	UNIMBPUD/ UNIMBPUD_PPT/UNIMBPUDIEU – Uninstructed Imbalance Payment for Under Generation for Generator Units/PredictablePrice Takers/Interconnector Error Units
CLAF's	NUMBER(28,8)	Combined Loss Adjustment Factors

D.21 Interconnector Flow

Heading Name	Format	Description
UNIT ID	VARCHAR2(32)	The name of the resource for which data is being reported (e.g. identifies Interconnector Units, SO Trades or Interconnector Error Unit) Interconnector Units are labelled as follows: PT_nnnnnn_i_ROIEWIC_EA/EA2/WD1 SO Trades are labelled:: TSO_EIRGRID_I_ROIEWIC TSO_SONI_I_NIMOYLE Interconnect Error Units are labelled as follows: IA_NIMOYLE_I_NIMOYLE IA_ROIEWIC_I_ROIEWIC
METER TYPE	VARCHAR2(10)	MGIU = Metered Generation of Interconnector and Residual Unit MGEU = Metered Generation for Interconnector Error Unit MGIUG = Metered Generation for Interconnector Unit Gate (replacing MGIU after IDT implementation on the 22 nd Jul 2012)
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
MG	NUMBER(8,3)	Metered Generation non Loss Adjusted. Note, the unit of measure is MWh Multiply figures by 2 to get the MW value.

D.22 Metered Generation by Jurisdiction

Heading Name	Format	Description
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
MGLF	NUMBER(8,3)	Loss-Adjusted Metered Generation of Generator Unit u in Trading Period h
MDLF	NUMBER(8,3)	Loss-Adjusted Total Metered Demand of Supplier Unit v in Trading Period h
NIJ	NUMBER(8,3)	Net Inter-Jurisdictional Import to Jurisdiction e in Trading Period h, expressed in MWh
REVLf	NUMBER(8,3)	Loss Adjusted Residual Error Volume (MWh)

D.23 Metered Generation by Unit

Heading Name	Format	Description
TYPE PART UNIT	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit or Generator Unit for which data is being reported).
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
MG	NUMBER(8,3)	Metered Generation non Loss Adjusted

D.24 System Frequency

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).

Heading Name	Format	Description
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Normal Frequency	NUMBER(8,3)	Nominal Frequency values in Hz per Trading Period utilised in the calculation of the tolerance bands for Over or Under Generation.
Average Frequency	NUMBER(8,3)	Average Frequency values in Hz per Trading Period utilised in the calculation of the tolerance bands for Over or Under Generation.

D.25 Two Day Wind Forecast¹⁴

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Forecast MW	NUMBER(8,3)	Load Forecast value, as generated by the TSO.

D.26 Annual Load Forecast

Heading Name	Format	Description
TRADE_DATE	DATE (DD/MM/YYYY)	A 24-hour period containing forty eight 30-minute trading periods, except on the clock change days in spring and autumn when the Trading Day will last for 23 and 25 hours respectively The first trading period of the trading day commences at 06:00hrs.
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
DELIVERY_DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).

¹⁴ As a result of MOD_07_14 - this file includes both Wind and Solar Power Unit Forecast data

Heading Name	Format	Description
DELIVERY_HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY_INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
LOAD_FORECAST	NUMBER(8,3)	Load Forecast value per Jurisdiction, as generated by the TSO.
ASSUMPTIONS	VARCHAR2(128)	TSO Assumptions behind the creation of the forecast.

D.27 Four Day Load Forecast

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Forecast MW	NUMBER(8,3)	Load Forecast value, as generated by the TSO.

D.28 Monthly Load Forecast

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Jurisdiction	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
Forecast MW	NUMBER(8,3)	Load Forecast value, as generated by the TSO.

D.29 Daily Actual Load

Heading Name	Format	Description
--------------	--------	-------------

Heading Name	Format	Description
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
ACTUAL LOAD	NUMBER(8,3)	Actual Load in MW.

D.30 Daily Exchange Rate

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
FROM CURRENCY	CHAR(1)	The currency to which the Exchange Rate will be applied to calculate the monetary value in another currency: <ul style="list-style-type: none"> • E – Euro; • P – Pound.
TO CURRENCY	CHAR(1)	The currency in which the Exchange Rate calculation will generate a monetary value: <ul style="list-style-type: none"> • E – Euro; • P – Pound.
EXCHANGE RATE	NUMBER(18,6)	The value of the Exchange Rate applicable
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.31 Daily Interconnector Capacity Active Holdings

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Participant Name	CHAR(32)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).

Heading Name	Format	Description
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Interconnector Import Capacity	NUMBER(11.3)	Maximum Interconnector Import Capacity offered on the Interconnector Unit in each Trading Period in the optimisation time horizon of the Indicative Market Schedule.
Interconnector Export Capacity	NUMBER(11.3)	Maximum Interconnector Export Capacity offered on the Interconnector Unit in each Trading Period in the optimisation time horizon of the Indicative Market Schedule.

D.32 Interconnector Available Transfer Capacity

Heading Name	Format	Description
Interconnector Name	VARCHAR2(32)	Unique identifier for Interconnectors
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Max Import MW	NUMBER(8,3)	Maximum import capacity, expressed in MW, submitted for an Interconnector Unit per Trading Period
Max Export MW	NUMBER(8,3)	Maximum export capacity, expressed in MW, submitted for an Interconnector Unit per Trading Period

D.33 Loss-Adjusted Net Demand - Margin and Loss of Load Probability

Heading Name	Format	Description
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).

Heading Name	Format	Description
Loss of Load Probability	NUMBER(28,8)	Forecast of Loss of Load Probability for each Trading Period in the next month.
MARGIN	NUMBER(28,8)	Margin used for Capacity calculation as per Appendix M of the T&SC.
TNDLF	NUMBER(28,8)	Total Loss Adjusted Net Demand for Market

D.34 Modified Interconnector Unit Nominations

Heading Name	Format	Description
Participant Name	CHAR(12)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Gate Window	VARCHAR2(4)	Trading window applicable to the record
MIUNS (Unit Nomination)	NUMBER(8,3)	Quantity nominated for import or export for an Interconnector Unit.
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.35 Trading Day Statistics

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
CURRENCY FLAG	CHAR(1)	Euro (E) or Sterling Pound (P).
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
MAX SMP	NUMBER(8,3)	Maximum System Marginal Price for Trading Day
MIN SMP	NUMBER(8,3)	Minimum System Marginal Price for Trading Day
LWA	NUMBER(8,3)	Load Weighted Average System Marginal Price for Trading Day

Heading Name	Format	Description
Seven Day LWA	NUMBER(8,3)	Seven Day Average of Load Weighted Average System Marginal Price

D.36 Make Whole Payment

Heading Name	Format	Description
RESOURCE	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
MWP	NUMBER(28,8)	Make Whole Payments calculated as the total over the Billing week (only available on Calendar day= Saturday)

D.37 Actual Availability

Heading Name	Format	Description
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Resource Type	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Gate Window	VARCHAR2(4)	Trading window applicable to the record
Participant Name	VARCHAR2(12)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
Actual Avail	NUMBER(8,3)	Actual Availability (AAuh)
Min Gen MW	NUMBER(8,3)	Minimum Generation MW.
Min Out MW	NUMBER(8,3)	Minimum Output.

Heading Name	Format	Description
Availability Profile	NUMBER(8,3)	Availability Profile (APuh)
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.38 Dispatch Quantity

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Part/Unit	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit, Generator Unit or Interconnector Unit for which data is being reported).
MW	NUMBER(28,8)	Profiled Dispatch Quantity based on Dispatch Instruction and Technical Offer Data
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report

D.39 Market Results (System Load, SMP and Shadow price)

Heading Name	Format	Description
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
CURRENCY FLAG	CHAR(1)	Euro (E) or Sterling Pound (P).
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
SYSTEM LOAD	NUMBER(8,3)	Total system load (MW)
SMP	NUMBER(8,2)	Aggregate System Marginal Price.
Shadow Price	NUMBER(8,2)	The additional cost of delivering an additional MW of energy in addition to the value of Schedule Demand. This is generally the price for the marginal Generating Unit.

D.40 Market Schedule Quantity

Heading Name	Format	Description
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Resource Type	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
Participant Name	VARCHAR2(12)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
Run Type	VARCHAR2(4)	MSP Software Run applicable to the report
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
Gate Window	VARCHAR2(4)	Trading window applicable to the record
MSQ	NUMBER(8,3)	Aggregate Market Schedule Quantity.
CMS TIME STAMP	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.41 RCUC Schedule Quantity

Heading Name	Format	Description
PARTICIPANT NAME	VARCHAR2(12)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
Resource Name	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
Trade Date	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
Delivery Date	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
Delivery Hour	NUMBER(2)	The hour of the day, based on the end of hour convention.
Delivery Interval	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).

Heading Name	Format	Description
Post Time	DATE (DD/MM/YYYY, HH24:MI:SS)	Time at which RCUC has generated the current Operational Schedule.
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
MSQ	NUMBER(8,3)	Aggregate Market Schedule Quantity.

D.42 Generator Forecast Data

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
PARTICIPANT NAME	CHAR(32)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
RESOURCE NAME	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
RESOURCE TYPE	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
UNDER TEST YN	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
DELIVERY DATE	DATE (DD/MM/YYYY)	Calendar Day (referred to as "Day" in the Code).
DELIVERY HOUR	NUMBER(2)	The hour of the day, based on the end of hour convention.
DELIVERY INTERVAL	NUMBER(2)	Will be 1 or 2, to split an hour into two equal Trading Periods (i.e. 1 denotes the first half-hour and 2 denotes the second half-hour).
FORECAST AVAILABILITY	NUMBER(8,3)	Forecast Availability Profile means the forecast of Availability in MW of Unit u in Trading Period h. Forecast Availability for each Trading Period in the Optimisation Time Horizon. This is used to set the lower output limit for Generating or Demand Side Units.
FORECAST MINIMUM STABLE GEN	NUMBER(8,3)	Minimum stable generation level, in MW, that the unit is capable of producing.

Heading Name	Format	Description
FORECAST MINIMUM OUTPUT	NUMBER(8,3)	Forecast Minimum Output Profile means the forecast of Minimum Output in MW of Unit u in Trading Period h. Forecast Minimum Output for each Trading Period in the Optimisation Time Horizon. This is used to set the lower output limit for Pumped Storage Units.
FUEL USE FLAG	CHAR(1)	The "fuel_use_flag" element is mandatory and the valid values are 'P' for Primary and 'S' for Secondary

D.43 Technical Offer Data - Demand Side Units

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
RESOURCE NAME	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
RESOURCE TYPE	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
UNDER TEST YN	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.

Heading Name	Format	Description
FUEL TYPE	VARCHAR2(5)	<p>Possible Values and their meaning:</p> <p>OIL → Oil</p> <p>DEM → Demand Side Unit</p> <p>GAS → Gas</p> <p>COAL → Coal</p> <p>MULTI → Multi Fuel</p> <p>WIND → Wind¹⁵</p> <p>HYDRO → Hydro</p> <p>BIO → Biomass</p> <p>CHP → Combined Heat and Power</p> <p>PUMP → Pumped Storage</p> <p>PEAT → Peat</p> <p>DISTL → Distillate</p> <p>NUCLR → Nuclear</p> <p>NA → Not Applicable</p>
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
MAXIMUM RAMP UP RATE	NUMBER(15,3)	<p>Ramp Up Rate in MW/min that applies for the Demand Side Unit.</p> <p>The rate of increase in Active Power produced by a Demand Side Unit.</p>
MAXIMUM RAMP DOWN RATE	NUMBER(15,3)	<p>Ramp Down Rate in MW/min that applies for the Demand Side Unit.</p> <p>The rate of decrease in Active Power produced by a Demand Side Unit.</p>
MINIMUM DOWN TIME	NUMBER(15,3)	The minimum time that must elapse from the time a Demand Side Unit is instructed to reduce load or Shut-Down before it must end its period of demand reduction.
MAXIMUM DOWN TIME	NUMBER(15,3)	The maximum time that can elapse from the time a Demand Side Unit is instructed to reduce load or Shut-Down before it must end its period of demand reduction.

D.44 Technical Offer Data - Standard Units

¹⁵ As a result of MOD_07_14 – Solar PV units are registered in the SEM with Fuel Type Wind. To identify which units are Solar PV you will need to refer to the current Registered_Capacity_Report published under General Publications on the SEMO website: <http://www.semo.com/Publications/Pages/GeneralPublications.aspx?documentarchivestatus=Active>

Heading Name	Format	Description
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run
RESOURCE NAME	VARCHAR2(32)	The name of the resource (e.g. the name of the Demand Side Unit for which data is being reported).
RESOURCE TYPE	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
RUN TYPE	VARCHAR2(4)	MSP Software Run applicable to the report
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.
FUEL TYPE	VARCHAR2(5)	<p>Possible Values and their meaning:</p> <p>OIL → Oil</p> <p>DEM → Demand Side Unit</p> <p>GAS → Gas</p> <p>COAL → Coal</p> <p>MULTI → Multi Fuel</p> <p>WIND → Wind</p> <p>HYDRO → Hydro</p> <p>BIO → Biomass</p> <p>CHP → Combined Heat and Power</p> <p>PUMP → Pumped Storage</p> <p>PEAT → Peat</p> <p>DISTL → Distillate</p> <p>NUCLR → Nuclear</p> <p>NA → Not Applicable</p>
DUAL FUEL FLAG	CHAR(1)	'Y' for YES or 'N' for NO
SECONDARY FUEL TYPE	VARCHAR2(5)	<p>Only applicable to Dual Fuel units.</p> <p>Same list of values as FUEL_TYPE.</p>
PRIORITY DISPATCH YN	CHAR(1)	'Y' for YES or 'N' for NO value generated based on whether the unit has priority dispatch status.
PUMP STORAGE YN	CHAR(1)	'Y' for YES or 'N' for NO value generated based on whether the unit is a Pumped Storage Unit.
ENERGY LIMIT YN	CHAR(1)	'Y' for YES or 'N' for NO value generated based on whether the unit is an Energy Limited Unit.

Heading Name	Format	Description
UNDER TEST YN	CHAR(1)	Flag indicating if the unit is under test for the Trading Day.
FIRM ACCESS QUANTITY	NUMBER(8,3)	Firm Access Quantity of a Trading Site in a Trading Period is the Maximum Export Capacity as determined in a Connection Agreement.(MW)
NON FIRM ACC QUANTITY	NUMBER(8,3)	Non-firm capacity for a unit in MW; i.e. part of a Generator Unit's Availability that does not have Firm Access.
SHORT TERM MAXIMISATION CAP	NUMBER(4)	Short Term Max Capacity Time
MINIMUM GENERATION	NUMBER(5,3)	Minimum Output of Generator Unit. The lowest value to which a unit can be scheduled.
MAXIMUM GENERATION	NUMBER(5,3)	Registered Maximum Availability level in MW.
MINIMUM ON TIME	NUMBER(8,3)	The minimum time that must elapse from the time a Generation Unit is instructed to Start-Up before it can be instructed to Shut-Down.
MINIMUM OFF TIME	NUMBER(15,3)	Minimum Output of Generator Unit. The lowest value to which a unit can be scheduled.
MAXIMUM ON TIME	NUMBER(15,3)	Registered Maximum Availability level in MW.
HOT COOLING BOUNDARY	NUMBER(5,2)	The duration in hours off load that indicates the standby status change of the unit from Hot to Warm.
WARM COOLING BOUNDARY	NUMBER(5,2)	The duration in hours off load that indicates the standby status change of the unit from Warm to Cold.
SYNCHRONOUS START UP TIME HOT	NUMBER(5,2)	Notification/Start-up times in hours for a unit considered to be in a hot state.
SYNCHRONOUS START UP TIME WARM	NUMBER(5,2)	Notification/Start-up times in hours for a unit considered to be in a warm state.
SYNCHRONOUS START UP TIME COLD	NUMBER(5,2)	Notification/Start-up times in hours for a unit considered to be in a cold state.
BLOCK LOAD COLD	NUMBER(15,3)	Block Load for Cold state
BLOCK LOAD HOT	NUMBER(15,3)	Block Load for Warm state
BLOCK LOAD WARM	NUMBER(15,3)	Block Load for Hot state
LOADING RATE COLD 1	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a cold state that applies until LOADING_UP_BREAK_PT_COLD_1. (One of the rates at which a Generation Unit increases Generation Unit Output from zero to Minimum Generation when it is instructed to Cold Start).

Heading Name	Format	Description
LOADING RATE COLD 2	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a cold state that applies from LOADING_UP_BREAK_PT_COLD_1 to LOADING_UP_BREAK_PT_COLD_2.
LOADING RATE COLD 3	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a cold state that applies from LOADING_UP_BREAK_PT_COLD_2 to minimum stable generation.
LOAD UP BREAK POINT COLD 1	NUMBER(15,3)	First Break Point for Load Up curve in a cold state (MW)
LOAD UP BREAK POINT COLD 2	NUMBER(15,3)	Second Break Point for Load Up curve in a cold state (MW)
LOADING RATE HOT 1	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a warm state that applies until LOADING_UP_BREAK_PT_WARM_1. (One of the rates at which a Generation Unit increases Generation Unit Output from zero to Minimum Generation when it is instructed to Warm Start).
LOADING RATE HOT 2	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a warm state that applies from LOADING_UP_BREAK_PT_WARM_1 to LOADING_UP_BREAK_PT_WARM_2.
LOADING RATE HOT 3	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a warm state that applies from LOADING_UP_BREAK_PT_WARM_2 to minimum stable generation.
LOAD UP BREAK POINT HOT 1	NUMBER(15,3)	First Break Point for Load Up curve in a warm state (MW)
LOAD UP BREAK POINT HOT 2	NUMBER(15,3)	Second Break Point for Load Up curve in a warm state (MW)
LOADING RATE WARM 1	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a hot state that applies until LOADING_UP_BREAK_PT_HOT_1. (One of the rates at which a Generation Unit increases Generation Unit Output from zero to Minimum Generation when it is instructed to Hot Start).
LOADING RATE WARM 2	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a hot state that applies from LOADING_UP_BREAK_PT_HOT_1 to LOADING_UP_BREAK_PT_HOT_2.
LOADING RATE WARM 3	NUMBER(15,3)	Loading Up Rate in MW/min when a Unit is in a hot state that applies from LOADING_UP_BREAK_PT_HOT_2 to minimum stable generation.
LOAD UP BREAK POINT WARM 1	NUMBER(15,3)	First Break Point for Load Up curve in a hot state (MW)
LOAD UP BREAK POINT WARM 2	NUMBER(15,3)	Second Break Point for Load Up curve in a hot state (MW)

Heading Name	Format	Description
SOAK TIME COLD 1	NUMBER(5,2)	Soak Time (minutes)
SOAK TIME COLD 2	NUMBER(5,2)	Soak Time (minutes)
SOAK TIME TRIGGER POINT COLD 1	NUMBER(15,3)	MW quantity at which the first Soak Time occurs (cold state).
SOAK TIME TRIGGER POINT COLD 2	NUMBER(15,3)	MW quantity at which the second Soak Time occurs (cold state).
SOAK TIME HOT 1	NUMBER(5,2)	Soak Time (minutes)
SOAK TIME HOT 2	NUMBER(5,2)	Soak Time (minutes)
SOAK TIME TRIGGER POINT HOT 1	NUMBER(15,3)	MW quantity at which the first Soak Time occurs (hot state).
SOAK TIME TRIGGER POINT HOT 2	NUMBER(15,3)	MW quantity at which the second Soak Time occurs (hot state).
SOAK TIME WARM 1	NUMBER(5,2)	Soak Time (minutes)
SOAK TIME WARM 2	NUMBER(5,2)	Soak Time (minutes)
SOAK TIME TRIGGER POINT WARM 1	NUMBER(15,3)	MW quantity at which the first Soak Time occurs (warm state).
SOAK TIME TRIGGER POINT WARM 2	NUMBER(15,3)	MW quantity at which the second Soak Time occurs (warm state).
END POINT OF START UP PERIOD	NUMBER (15,3)	End Point of Start Up Period expressed in MW.
RAMP UP RATE 1	NUMBER(15,3)	Ramp Up Rate in MW/min that applies from minimum stable generation until RAMP_UP_BREAK_PT_1 The rate of increase in Active Power produced by a Generating Unit.
RAMP UP RATE 2	NUMBER(15,3)	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_1 until RAMP_UP_BREAK_PT_2.
RAMP UP RATE 3	NUMBER(15,3)	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_2 until RAMP_UP_BREAK_PT_3.
RAMP UP RATE 4	NUMBER(15,3)	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_3 until RAMP_UP_BREAK_PT_4.
RAMP UP RATE 5	NUMBER(15,3)	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_4 upwards.
RAMP UP BREAK POINT 1	NUMBER(15,3)	MW level at which the ramp rate will change from Ramp Up Rate 1 to Ramp Up Rate 2.
RAMP UP BREAK POINT 2	NUMBER(15,3)	MW level at which the ramp rate will change from Ramp Up Rate 2 to Ramp Up Rate 3.

Heading Name	Format	Description
RAMP UP BREAK POINT 3	NUMBER(15,3)	MW level at which the ramp rate will change from Ramp Up Rate 3 to Ramp Up Rate 4.
RAMP UP BREAK POINT 4	NUMBER(15,3)	MW level at which the ramp rate will change from Ramp Up Rate 4 to Ramp Up Rate 5.
DWELL TIME 1	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_TRIGGER_PT_1 during a change in its MW output while ramping up between minimum stable generation and maximum generation.
DWELL TIME 2	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_TRIGGER_PT_2 during a change in its MW output while ramping up between minimum stable generation and maximum generation.
DWELL TIME 3	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_TRIGGER_PT_3 during a change in its MW output while ramping up between minimum stable generation and maximum generation.
DWELL TIME TRIGGER POINT 1	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME_1 while ramping up between Minimum Generation and Maximum Generation.
DWELL TIME TRIGGER POINT 2	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME_2 while ramping up between Minimum Generation and Maximum Generation.
DWELL TIME TRIGGER POINT 3	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME_3 while ramping up between Minimum Generation and Maximum Generation.
RAMP DOWN RATE 1	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_DOWN_TRIGGER_PT_1 during a change in its MW output while ramping down between minimum stable generation and maximum generation.
RAMP DOWN RATE 2	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_DOWN_TRIGGER_PT_2 during a change in its MW output while ramping down between minimum stable generation and maximum generation.
RAMP DOWN RATE 3	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_DOWN_TRIGGER_PT_3 during a change in its MW output while ramping down between minimum stable generation and maximum generation.
RAMP DOWN RATE 4	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME_DOWN_1 while ramping down between Minimum Generation and Maximum Generation.

Heading Name	Format	Description
RAMP DOWN RATE 5	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME_DOWN_2 while ramping down between Minimum Generation and Maximum Generation.
RAMP DOWN BREAK POINT 1	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME_DOWN_3 while ramping down between Minimum Generation and Maximum Generation.
RAMP DOWN BREAK POINT 2	NUMBER(15,3)	Ramp down rate that applies from a given MW level down to minimum stable generation.
RAMP DOWN BREAK POINT 3	NUMBER(15,3)	Ramp down rate that applies from a given MW level down to RAMP_DOWN_BREAK_POINT_1
RAMP DOWN BREAK POINT 4	NUMBER(15,3)	Ramp down rate that applies from a given MW level down to RAMP_DOWN_BREAK_POINT_2
DELOADING RATE 1	NUMBER(15,3)	Ramp down rate that applies from a given MW level down to RAMP_DOWN_BREAK_POINT_3
DELOADING RATE 2	NUMBER(15,3)	Ramp down rate that applies from a given MW level down to RAMP_DOWN_BREAK_POINT_4
DELOAD BREAK POINT	NUMBER(15,3)	MW level at which the ramp rate will change from RAMP_DOWN_RATE_2 to RAMP_DOWN_RATE_1.
MAXIMUM STORAGE CAPACITY	NUMBER(15,3)	MW level at which the ramp rate will change from RAMP_DOWN_RATE_3 to RAMP_DOWN_RATE_2.
MINIMUM STORAGE CAPACITY	NUMBER(15,3)	MW level at which the ramp rate will change from RAMP_DOWN_RATE_4 to RAMP_DOWN_RATE_3.
PUMPING LOAD CAP	NUMBER(15,3)	MW level at which the ramp rate will change from RAMP_DOWN_RATE_5 to RAMP_DOWN_RATE_4.
TARGET RESERVOIR LEVEL PERCENT	NUMBER(15,3)	MW level from which the ramp rate will change from DELOADING_RATE_1 to DELOADING_RATE_2.
ENERGY LIMIT MWH	NUMBER(15,3)	Deloading Rate in MW/min that applies for a Unit between DELOAD_BREAK_PT and zero.
ENERGY LIMIT FACTOR	NUMBER(15,3)	Deloading Rate in MW/min that applies for a Unit between Minimum Stable Generation and DELOAD_BREAK_PT.
FIXED UNIT LOAD	NUMBER(5,2)	For Pumped Storage Units. Expressed in terms of generation (MWh) for each Pumped Storage Unit within the Trading Day.
UNIT LOAD SCALAR	NUMBER(5,2)	For Pumped Storage Units. Expressed in terms of generation (MWh) for each Pumped Storage Unit within the Trading Day.

Heading Name	Format	Description
DWELL TIME DOWN 1	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_DOWN TRIGGER_PT_1 during a change in its MW output while ramping down between maximum generation and minimum stable generation.
DWELL TIME DOWN 2	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME_SOWN TRIGGER_PT_2 during a change in its MW output while ramping down between maximum generation and minimum stable generation.
DWELL TIME DOWN 3	NUMBER(5,2)	Duration for which the Generator Unit must remain at DWELL_TIME DOWN TRIGGER_PT_3 during a change in its MW output while ramping down between maximum generation and minimum stable generation.
DWELL TIME DOWN TRIGGER POINT 1	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_TIME DOWN_1 while ramping down between Maximum Generation and Minimum Generation.
DWELL TIME DOWN TRIGGER POINT 2	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_DOWN TIME_2 while ramping down between Maximum Generation and Minimum Generation.
DWELL TIME DOWN TRIGGER POINT 3	NUMBER(5,2)	MW level at which the Generator Unit must remain for time DWELL_DOWN TIME_3 while ramping down between Maximum Generation and Minimum Generation.
CMS time stamp	DATE TIME YYYYMMDD HH:MM:SS	Date and time the file was created. Military time.

D.45 Units

Heading Name	Format	Description
PARTICIPANT NAME	VARCHAR2(12)	The Account PT Identifier, which represents the name of Market Participant, as registered in the CMS.
PARTICIPANT FULL NAME	VARCHAR2(50)	The Registered Company Name
RESOURCE NAME	VARCHAR2(32)	The name of the resource (e.g. the name of the Generating Unit, Supplier Unit, Demand Side Unit, Interconnector Unit or Interconnector for which data is being reported).
RESOURCE TYPE	VARCHAR2(4)	Indicates the type of resource for which data is being submitted - for example, this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values are: PPMG, PPTG, VPMG, VPTG, APTG, DU, SU and I.
JURISDICTION	VARCHAR2(4)	Republic of Ireland (ROI) or Northern Ireland (NI) as appropriate.

Heading Name	Format	Description
FUEL TYPE	VARCHAR2(5)	Possible Values and their meaning: OIL → Oil DEM → Demand Side Unit GAS → Gas COAL → Coal MULTI → Multi Fuel WIND → Wind HYDRO → Hydro BIO → Biomass CHP → Combined Heat and Power PUMP → Pumped Storage PEAT → Peat DISTL → Distillate NUCLR → Nuclear NA → Not Applicable
TRADE DATE	DATE(DD/MM/YYYY)	The Trading Day corresponding to the MSP Software Run