

Form A – IGG Design Discussion Request

Discussion Request Number	Title	Priority
DR 148	Reformatting of the Load Profile data	<i>Medium</i>

Name of Requesting Organisation	Airtricity
Contact Name	Iain Wright
Date Request sent to RMDS	15th May 2007

Date	Version	Reason for Change
15 th May 2007	0.1	<i>To simplify the data structure of the load profiles to make it easier for data loading, and querying.</i>

Detail of Discussion Request
<p>Background: Suppliers are looking for a standard format for receipt of the annual load profile data, to ensure delivery of the required year to year consistency that will allow automated upload of the data into their systems. A standard format will also remove the possibility of inconsistency between a Supplier's individually-derived profiles with those used for settlement aggregation. This DR has been created to address these concerns and proposes reformatting of the load profile data to make provision of the data more useful to all Market Participants.</p> <p>The existing "365 x 96" matrix data format requires time and effort to resolve into a format that can be easily loaded into a format that can be automatically loaded into suppliers' systems for, among other uses, validation of settlement demand. On the other hand, data in the proposed format can easily be resolved into the existing matrix format by means of a pivot table. It is therefore considered that the proposed change will be of considerable benefit to most suppliers, but will have minimal impact on those suppliers who prefer to use the data in its current format.</p> <p>In addition to this usability benefit, load profile data has been provided in various formats since full market opening in 2005 and it is essential for suppliers to have stability of format for this data, so that they can be certain of its usability as soon as it is provided by MRSO..</p> <p>Detail: The following amendments to the load profile data are proposed:</p> <ol style="list-style-type: none"> 1. The 9 profiles, plus their derived variants, be consolidated into one CSV file 2. The data is restructured in the formats outlined in the tables below. 3. Days have a settlement period identifier (could replace the settlement time period identifier), to ensure that the data can be sorted by date and settlement period without losing the correct data order for the long day, where the time period information is repeated. <p>The following additional requirements were also identified:</p> <ol style="list-style-type: none"> 1. The data is published on the RMDS website for ease of access 2. A mapping table from date to day type (weekday, weekend, public holiday etc) is

Detail of Discussion Request

provided to improve normalisation of the data provided.

Proposed Solution

The following table outlines the proposed structures of the CSV files

File 1 Day_Type

This can be joined in a database with file 2, as required.

Date	Day_Type
01/01/2007	P Hol
02/01/2007	Weekday
03/01/2007	Weekday
04/01/2007	Weekday
05/01/2007	Weekday
06/01/2007	Weekend
07/01/2007	Weekend
08/01/2007	Weekday

File 2 Settlement_Profile_Coefficients

This file lists all profiles and derived profile coefficients, by date and settlement period. It is proposed that Settlement_Period is used in preference to time periods, as the latter are duplicated on a long day and cannot therefore provide a unique identifier that will ensure profile coefficients are always used in their correct order. The table below illustrates extracts from the full file, with the shaded lines representing intervening data records.

This table shows how derived profiles are identified and how settlement period is used to identify the order of profile coefficients for the long day.

Profile_Class	Derived_Profile	Date	Settlement_Period	Time_Period	Coefficient
4	24h	01/01/2007	1	00:00	0.0000358591
4	24h	01/01/2007	2	00:15	0.0000358591
4	24h	01/01/2007	3	00:30	0.0000351125
4	D	01/01/2007	1	00:00	0.0000000000
4	D	01/01/2007	2	00:15	0.0000000000
4	N	28/10/2007	5	01:00	0.0001075773
4	N	28/10/2007	6	01:15	0.0001075773
4	N	28/10/2007	7	01:30	0.0001053375
4	N	28/10/2007	8	01:45	0.0001053375
4	N	28/10/2007	9	01:00	0.0000948038
4	N	28/10/2007	10	01:15	0.0000948038
5	24h	25/03/2007	7	01:30	0.0000363857
5	24h	25/03/2007	8	01:45	0.0000363857
5	24h	25/03/2007	9	03:00	0.0000504921
5	24h	25/03/2007	10	03:15	0.0000504921
5	24h	25/03/2007	11	03:30	0.0000473608

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Market Design Documents impacted by Request	
None	
Date of IGG where discussed	
Change Request xref (if applicable)	

PART 2 MARKET ASSURANCE:				
Applicability				
ESB Networks	Suppliers	TSO	SSA	Generators
Scope of Test				
Connectivity	DTT	MSA	IPT	Other
			No. Of Scenarios	

Scope of Discussion Request							
Correction to Documentation	Business Process	Market & MP Systems	MPCC	Readings Processor	Market Gateway	Schema	Web Forms