

Form A – IGG Design Discussion Request

Discussion Request Number	Title	Priority
DR 145	Estimation of QH values for Indicative Aggregation	High

Name of Requesting Organisation	SEM
Contact name	Theresa O'Neill
Date Request sent to RMDS	25 th April 2007

Date	Version	Reason for Change
25 th April 2007	1.0	To provide basic rules for calculating estimated QH values for indicative Aggregations

Detail of Discussion Request
<p>MPD 15 – QH Data Processing was baselined in the Retail Market Design at version 6.0, as detailed within MCR 097, as part of the suite of changes to satisfy new requirements of SEM implementation.</p> <p>Within the requirements of the Single Electricity Market Indicative Aggregation results need to be provided by MRSO to the SMO by 14:00hrs on a D+1, week day basis. In order to meet this tight timeline, the following is proposed to estimate for QH Distribution Connected Import, Export and Transmission Connected Import only sites that will be included within Indicative Aggregation:</p> <ul style="list-style-type: none"> • A basic estimate will be calculated during Indicative Data Aggregation for QH sites where there are no reads. Note that 341 MMs will not be issued for these sites at this stage. • On D+4 if there are no reads, then the Data Collector will provide MRSO with estimates for Initial Data Aggregation in accordance with the QH Estimation, Substitution and Validation rules. • These Data Collector estimates will be used within Initial Aggregation and sent out on 341 messages • Note that in an exceptional circumstance where the Data Collector fails to provide an estimate at D+4, the value created within Indicative Aggregation at D+1 will be used in Initial Aggregation and will be issued on the 341 message at D+4 <p>The Basic Rules for the calculation of the estimates are proposed to be:</p> <p><u>QH Import</u></p> <ol style="list-style-type: none"> 1. Default the missing values to Nil when the site is De-Energised 2. If the site is energised, copy the missing data from the same day the previous week - note that this will be done for all days including where there are Bank Holidays <ul style="list-style-type: none"> ○ If there is no data available from the previous week, then copy the missing data from the same day 4 weeks ago ○ If there is still no data available from the same day 4 weeks ago, then default the missing values to Nil

Detail of Discussion Request

Exceptions – Clock Change days

For 'long days', the estimate will be copied from 00:00:00 of the previous Sunday into the first hour of the Monday up to 00:59:59

For 'short days', the estimate will be copied from 00:00:00 of the previous Sunday up to 22:59:59.

Notes

The estimate routine will copy each interval in sequence even though at a clock change the hour is added or subtracted from 1-2am.

If a day is a normal day and the same day the previous week was a long day, the estimate will be the same day the previous week less the last hour, from 23:00 to 23:59.

QH Export

- 1. The proposal is to estimate NIL

Note - That this does not impact on the XML schema

Reason for Discussion Request

To facilitate the SEM timetables for Indicative Aggregation

Market Design Documents impacted by Request

MPD 15 History of Changes
MPD 15 Supporting Documentation

Date of IGG where discussed	<i>19th April 2007</i>
Change Request xref (if applicable)	<i>Slides 29, 30 & 31 of ESB Networks AIP Programme presentation to the IGG 19th April 2007</i>

PART 2 MARKET ASSURANCE:

Applicability

ESB Networks	Suppliers	TSO	SSA	Generators
X				

Scope of Test

Connectivity	DTT	MSA	IPT	Other
				ITA in ESNB
			No. Of Scenarios	

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

1. History of Changes

This Procedure includes the following changes

B69	Validation of QH Data
B70	Communication of Import on Export Sites
B95	Annual Verification, subject to approval by CER
B153	Changes to include application of Transformer Loss Factors
	No Change applied since Version 4.0 DRAFT
	No Changes applied since V 4.1
	Changes applied since Version 4.2
MCR 0044	Information to TSO and Suppliers on netted date on 341 message Removal of Data Aggregation Netting
DRR 0015	Correction to Page 5 for export sites
	No Changes applied since V 4.3
	Changes applied since V4.4
DRR 0083	Update to text to specify channel of communication for notification of changes
	Changes applied since V 5.0
MCR 0072	Minor updates to text in Supplementary Information
	Changes applied since V 5.1
MCR0097	Amendments to satisfy new requirements surrounding data collection and Non Participant Generators of SEM implementation. This will necessitate changes to:- ARIS Process Flow Diagram, Supporting Text and Supplementary Information.
MCR0145	Amendments to satisfy new requirements the estimation of QH values for Indicative Aggregation in the SEM implementation. This will necessitate changes to:- Supplementary Information.

2. Supplementary Information - Changes

1.4 Estimated Data in Market Messages

QH Read data will continue to be processed and sent to Market participants as soon as it available, with the target timeline for Aggregation moving from D+10 to D+4.

- Exception is PES **Error Supplier Unit** until Global Aggregation.

Existing processes for replacement data will continue i.e. where actuals replace estimates, these will continue to be sent to Market participants as soon as possible.

Existing SLA for the provision of 100% QH data for Supplier/TUOS Billing purposes –currently by D+10 - is unaffected.

Indicative Aggregation is required at D+1. This means that all QH read data, import and export, if available, be collected for all QH sites included in Indicative Aggregation. Where no read data is available it must be estimated for use in Indicative Aggregation.

A basic estimate will be calculated during Indicative Data Aggregation for QH sites where there are no reads. The Basic Rules for the calculation of the estimates are proposed to be:

QH Import

1. Default the missing values to Nil when the site is De-Energised
2. If the site is energised, copy the missing data from the same day the previous week - note that this will be done for all days including where there are Bank Holidays
 - If there is no data available from the previous week, then copy the missing data from the same day 4 weeks ago
 - If there is still no data available from the same day 4 weeks ago, then default the missing values to Nil

Exceptions – Clock Change days

For 'long days', the estimate will be copied from 00:00:00 of the previous Sunday into the first hour of the Monday up to 00:59:59

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Notes

The estimate routine will copy each interval in sequence even though at a clock change the hour is added or subtracted from 1-2am.

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QH Export

1. The proposal is to estimate NIL

MRSO will not include this estimated QH data in the 341 QH read Market Message at D+1.

Therefore, the practice for the 341 Message is

- Actual data will always be sent
- ~~Estimated Data will be retained until D+4~~

~~and where on D+4 no actual data is available, estimates are sent in the 341 message~~

- On D+4 if there are no reads, then the Data Collector will provide MRSO with estimates for Initial Data Aggregation in accordance with the QH Estimation, Substitution and Validation rules.
- These Data Collector estimates will be used within Initial Aggregation and sent out on 341 messages
- Note that in an exceptional circumstance where the Data Collector fails to provide an estimate at D+4, the value created within Indicative Aggregation at D+1 will be used in Initial Aggregation and will be issued on the 341 message at D+4

Initial Aggregation is required at D+4. This means that all QH read data, import and export, must in so far as possible, be collected for all QH sites included in Initial Aggregation.

~~Where no read data is available, the estimate generated at D+1 will be used in Initial Aggregation~~

- When actual data has been subsequently obtained where previously it was estimated for the D+1 Indicative Aggregation, the actual data will be used in Initial Aggregation

341 Market message at D+4

At D+4, the 341 Market messages sent to Market Participants will include

- actual data that has arrived on D+4 and has replaced an estimate generated for Indicative Data Aggregation at D+1
- estimated data provided by the Data Collector on D+4 if no actual has been received
- estimated data from D+1 if no actual or estimate from the Data Collector has been received
- and in addition, as normal, any other actual data that has been collected that day
- and actual data received at D+1,D+2,D+3 will already have been issued

1.6 Responsibilities between MRSO and TSO for Polling and Publishing Data

Where Distribution Connected Participant Generators have Price Effecting Generation they will not be sent 341 messages from MRSO, instead, that export data would be available to the participant via the EirGrid website.

RA324 will not be implemented by SMO prior to go-live. This will impact on a small number of Trading sites with firm/non firm access calculations. Where Import data is Price-Effecting, it is needed by SMO on a 7 day week, calendar day basis, and Eirgrid will be handling the provision of this data to the SMO.

This means that MRSO will send 341 messages to Suppliers and TSO based on the following:

- If they are Transmission Connected Generators, Eirgrid will provide the QH import read data to MRSO.
- If they are Distribution Connected Generators, ESB Networks will in addition to Eirgrid poll the import for these sites and will not get the QH import read from Eirgrid

This section is included as a Placeholder relating to the Estimation of values by TSO. Content will be clarified following completion of ongoing discussions.