TUoS Data Validations

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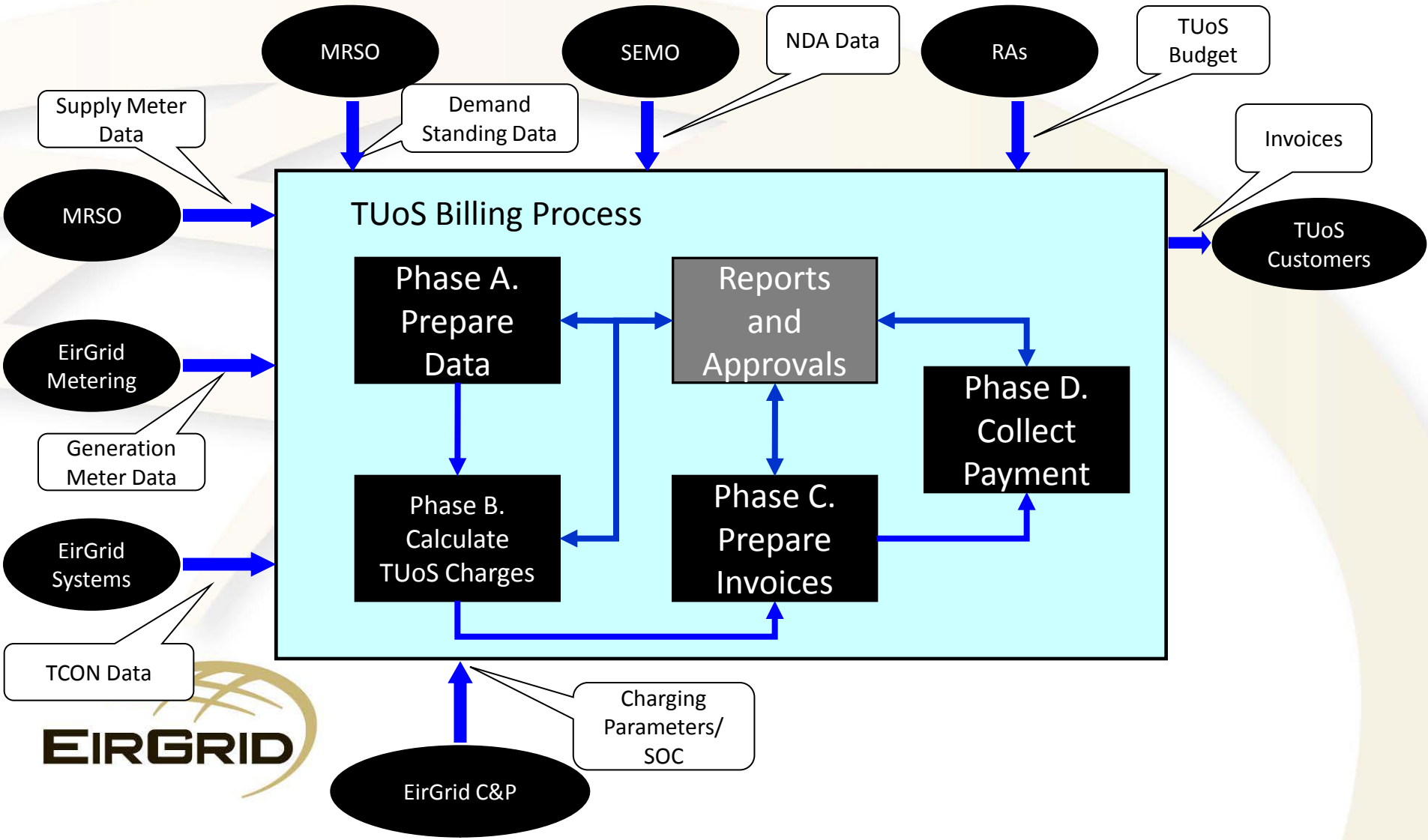
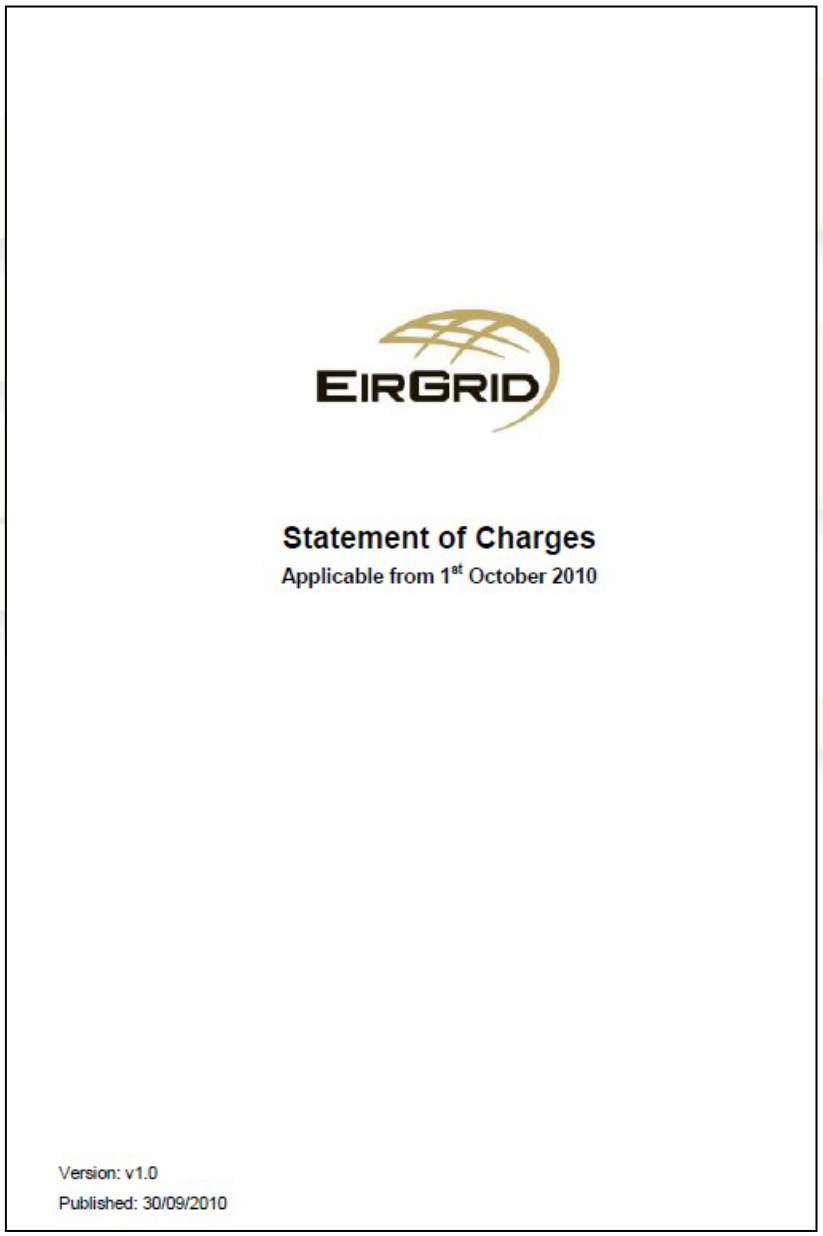
Summary Of TUoS Inputs



Statement of Charges



CER Approved Demand & Generation Tariffs

TARIFF SCHEDULE DTS-T (LEUs)
Demand Transmission Service Tariff - Transmission Connections

TARIFF SCHEDULE DTS-D1 (LEUs)
Demand Transmission Service - Distribution Connections classed as Large Energy Users and with Maximum Import Capacity agreements >= 0.5MW

TARIFF SCHEDULE DTS-D1 (NON-LEUs)
Demand Transmission Service - Distribution Connections not classed as Large Energy Users and with Maximum Import Capacity agreements >= 0.5MW

TARIFF SCHEDULE DTS-D2 (LEUs)
Demand Transmission Service - Distribution Connections classed as Large Energy Users but not served under Tariff Schedule DTS-D1 (LEUs)

TARIFF SCHEDULE DTS-D2 (NON-LEUs)
Demand Transmission Service - Distribution Connections not classed as Large Energy Users but not served under Tariff Schedule DTS-D1 (Non-LEUs)

TARIFF SCHEDULE GTS-T
Generation Transmission Service - Transmission Connections

TARIFF SCHEDULE GTS-D
Generation Transmission Service - Distribution Connection

TARIFF SCHEDULE ATS-T
Autoproducer Transmission Service - Transmission Connections

TARIFF SCHEDULE ATS-D
Autoproducer Transmission Service - Distribution Connections

TARIFF SCHEDULE DSMC
Demand Side Management Charge (formerly Capacity Margin Charge)

TARIFF SCHEDULE DTS-D1 (LEUs)

Demand Transmission Service - Distribution Connections classed as Large Energy Users and with Maximum Import Capacity agreements >= 0.5MW

CONDITIONS

APPLICABLE TO: *Demand Users* supplying a *Customer* indirectly connected to the *Transmission System* via the *Distribution System* at each *Exit Point* from the date of the customer's connection where the User's *Customer* has a connection agreement with a stated *Maximum Import Capacity* of 0.5MW or greater and quarter-hourly interval metering and is a Large Energy User.

Where possible any *Users* with *Customers* that have an *MIC* of 0.5 MW or above (prior to adjusting for the appropriate distribution loss factor) and is a Large Energy User will be charged based on tariff schedule DTS-D1 (LEUs). In some cases the required information on *MICs* or required metered data may not be available and these users will be charged on tariff schedule DTS-D2 (LEUs) as a proxy for the DTS-D1 (LEUs) tariff schedule.

CHARGES: Use of System Charges for service under Tariff Schedule DTS-D1 (LEUs) in any one *Charging Period* shall be the sum of the following:

DEMAND TUOS CHARGES

(a) Demand Network Capacity Charge:
€ 602.3418/MW for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

i) the *Customer's Maximum Import Capacity* multiplied by the highest applicable *Distribution Loss Factor*, or
ii) the greater of the Minimum Charging Capacity and the highest *Metered Consumption Demand* of the *Customer* in the *Charging Period*

Where the Minimum Charging Capacity is the greater of:

i) 80% of the *Customer's Maximum Import Capacity* multiplied by the highest applicable *Distribution Loss Factor*, or
ii) the *Customer's Maximum Import Capacity* multiplied by the highest applicable *Distribution Loss Factor* less 4 *MW*

(b) Demand Network Transfer Charge:
€ 1.1540/MWh for *Metered Consumption Energy*[4] transferred in the *Charging Period*.

(c) Demand System Services Charge:
€ 1.3566/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

TARIFF SCHEDULE DTS-D1 (NON-LEUs)

Demand Transmission Service - Distribution Connections not classed as Large Energy Users and with Maximum Import Capacity agreements >= 0.5MW

CONDITIONS

APPLICABLE TO: *Demand Users* supplying a *Customer* indirectly connected to the *Transmission System* via the *Distribution System* at each *Exit Point* from the date of the customer's connection where the User's *Customer* has a connection agreement with a stated *Maximum Import Capacity* of 0.5MW or greater and quarter-hourly interval metering and is not a Large Energy User.

Where possible any *Users* with *Customers* that have an *MIC* of 0.5 MW or above (prior to adjusting for the appropriate distribution loss factor) and is not a Large Energy User will be charged based on tariff schedule DTS-D1 (Non-LEUs). In some cases the required information on *MICs* or required metered data may not be available and these users will be charged on tariff schedule DTS-D2 (Non-LEUs) as a proxy for the DTS-D1 (Non-LEUs) tariff schedule.

CHARGES: Use of System Charges for service under Tariff Schedule DTS-D1 (Non-LEUs) in any one *Charging Period* shall be the sum of the following:

DEMAND TUOS CHARGES

(a) Demand Network Capacity Charge:
€ 1,088.0452/MW for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

iii) the *Customer's Maximum Import Capacity* multiplied by the highest applicable *Distribution Loss Factor*, or
iv) the greater of the Minimum Charging Capacity and the highest *Metered Consumption Demand* of the *Customer* in the *Charging Period*

Where the Minimum Charging Capacity is the greater of:

iii) 80% of the *Customer's Maximum Import Capacity* multiplied by the highest applicable *Distribution Loss Factor*, or
iv) the *Customer's Maximum Import Capacity* multiplied by the highest applicable *Distribution Loss Factor* less 4 *MW*

(b) Demand Network Transfer Charge:
€ 2.0845/MWh for *Metered Consumption Energy*[5] transferred in the *Charging Period*.

(c) Demand System Services Charge:
€ 2.4505/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

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Retail Market Messages

MIM number	Market Message Name	Data Type
341	QH Interval Data (Import)	QH Feed
591	NQH Aggregated Data	NQH Feed
595	QH Import Aggregated Data	Not processed for TUoS
101	New Connection Registration Acceptance	New Account
105	Change of Supplier Confirmation	Change of Supplier
106D	Meter Point Status Confirmation - De-Energisation	Account De-Energisation
106E	Meter Point Status Confirmation - Energisation	Account Energisation
111	Registration Cancellation	Cancellation of New Account, Cancellation of Change of Supplier
114	Change of Customer Details Confirmation	Change of Customer Address, Change of Customer Name, Change of DUoS Group
116A	Change of Legal Entity Confirmation to TSO	Change of Customer Address, Change of Customer Name
122	De-Registration Confirmation	Account De-registration
301	Meter Point Characteristics	Change of MIC, Change of Voltage, Change of DUoS Group
330	Notification to ESB NG of Transfer from NQH to QH	Change of NQH to QH
331	QH Meter Technical Details	Change of NQH to QH, Account De-Energisation
115	Change of SSAC and/or Supplier Unit Confirmation	Not processed for TUoS
602	Daily Summary Reconciliation	QC Report
999	Test Document	Connectivity test

Market Message Daily QC		01/03/2011		
Market Message	**Description**	**Sent**	**Rec**	**Not Rec**
101	New Connection Registration Acceptance	0	0	0
105	Change of Supplier Confirmation	3	3	0
106D	De-Energisation - Meter Point Status Confirmation	0	0	0
106E	Re-Energisation - Meter Point Status Confirmation	0	0	0
114	Change of Customer Details Confirmation	12	12	0
115	NOT PROCESSED BY RMI	0	0	0
116A	Change of Legal Entity Confirmation	0	0	0
122	De-Registration Confirmation	1	1	0
301	Meter Point Characteristics	0	0	0
330	NQH -> QH Non Quarter Hour to Quarter Hour Change	0	0	0
331	QH Meter Technical Details (including NQH -> QH)	0	0	0
341	QH Meter Reading	783	783	0
591	Estimated Aggregated NQH Supplier Consumption	49	49	0
595	QH Import Aggregated	49	49	0
602	XML MESSAGE COUNT	1	1	0
999	System Message	0	0	0
	TOTAL	**898**	**898**	**0**

Energy Data Validation - NDA

- NDA MWh value on the Participant Information Report (PIR)
- Available on SEMO MPI system (settlements section – published daily)
- INITIAL, M+13 and Post M+13 Ad hoc only
- IR01 (Invoice) & IR02 (Excel):
  - Billed as DTS-D2
  - MPRN like NDA+SU
    - e.g. NDASU_400999
  - Sum of ‘Demand Total Energy Transfer’ = Sum of NDA MWh on PIR

Energy Validation - QH

- 341 Market Message
  - Demand – Interval Demand
  - Autoproducer Demand – Net Interval Demand
- Apply D+8 Cut-off for 341 messages
  - Late, missing, estimated, updated on M+13 Resettlement
- MWh divided into Day and Night and Dist Loss factor applied (Statement of Charges)

	Voltage level at which the user is connected			
Time	110 or higher	38	MV	LV
Day	1.000	1.018	1.043	1.092
Night	1.000	1.015	1.035	1.073

Energy Validation - QH

- Sum of IR02 MWh less DLFs
  = Sum of MWh on 341
- QH MWh by MPRN available on IR02
  - 11 digit MPRNs start with 213--- or 1----
  - Billed as DTS-T, D1 or D2

DLAFG	IR02 Demand Day Energy Transfer	Day DLFs (SOC)	Raw Day MWh	IR02 Demand Night Energy Transfer	Night DLFs (SOC)	Raw Night MWh	Total Raw MWh
38kV	570.60	1.018	560.5093	212.33	1.015	209.1903	769.70
MV	3,379.51	1.043	3240.184	1,505.33	1.035	1454.422	4,694.61
LV	939.83	1.092	860.6542	345.17	1.073	321.6822	1,182.34
n/a	112.12	1.000	112.1173	39.83	1.000	39.82693	151.94
							6,798.59

Energy Validations - NQH

- 591 Market Message
  - Initial Aggregation and Re-aggregation up to Month +13
- Same message to TSO as Suppliers
- 591 already has Dist. Loss Factors applied
- IR01 & IR02:
  - Voltage type = ‘n/a’ (DLFs=1)
  - Billed as DTS-D2
  - MPRN = Supplier ID, Supplier Unit & Sub-aggregation code as per 591
    - E.g. ‘SA5SU_400999A’

Energy Validations – Generation MWh

- Meter Data portal on EirGrid website
  - https://tgrs.eirgrid.com/webclient/index.html
- Gives 15 minute MWh EirGrid sends to SEM (D+1, D+3 or post D+3 if updated)
- Some units are combined/disaggregated for TUoS Purposes
- Generators:
  - Firm => Maximum Export Capacity (MEC) = Shallow Connection Capacity (SCC or Firm Access Quantity)
  - Non-Firm => MEC > SCC

Energy Validations – Generation MWh

- IR01/IR02 = “Generation Non-Firm Energy in MWh”
- Firm Gen (MEC = SCC):
  - No readings required for charges => 0
- Partial Firm (0<SCC<MEC):
  - Sum of Max [0,Half hour MWh - (0.5*SCC)] => IR01 & IR02
- Fully non-Firm (SCC = 0):
  - Sum of Half Hour MWh => IR01 & IR02

Thank You

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