



## **Statement of Charges**

**Applicable from 1<sup>st</sup> January 2009**

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## **DOCUMENT HISTORY**

- 1) The 2009 Statement of Charges version 1.0 was approved by the CER on 16/12/2008 and published on the EirGrid website [www.eirgrid.com](http://www.eirgrid.com) on 17/12/2008.

## **CORRESPONDENCE INFORMATION**

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## **INTRODUCTION**

This document sets out EirGrid's charges for use of the transmission system applicable from January 1<sup>st</sup> 2009 until such time another Statement is approved by the Commission under Section 36 of the Electricity Regulation Act, 1999. The charges published in this statement have been derived in accordance with the revenue allowed by the Commission for Energy Regulation (CER).

These tariffs may be subject to change during this period and in such cases EirGrid shall notify suppliers and generators. Any additional generators who connect to the transmission system or distribution system throughout the year will be liable for charges and these charges shall be published when derived.

The document has been prepared by EirGrid in accordance with Section 35 and submitted to and approved by the Commission for Energy Regulation in accordance with Section 36 of the Electricity Regulation Act, 1999 (as amended by the Electricity Regulation (Single Electricity Market) Act of 2007).

The document contains:

- A general introduction
- The Statement of Charges for use of the Transmission System. Use of the Transmission System comprises both Network Charges and System Services Charges.

The Statement of Payments in respect of Ancillary Services is published as part of a separate document. Transmission Loss Adjustment Factors are also published as a separate document.

## **THE ELECTRICITY MARKET**

As of November 1<sup>st</sup> 2007 a new wholesale market arrangement known as the Single Electricity Market (SEM) exists. The SEM is designed to create a new single market for the wholesale trading of electricity, bringing together the two existing wholesale markets on the island. The SEM will enable generators and suppliers of electricity on the island to trade electricity on a daily basis regardless of their location. This will be achieved through a mandatory gross pool, subject to market rules, procedures, terms and conditions set out by the Trading and Settlement Code and associated agreements.

## **TRANSMISSION**

EirGrid is the state-owned company responsible for the Transmission System Operator (TSO) function, providing access to the transmission system.

## **TRANSMISSION - USE OF SYSTEM**

Transmission Use of System: charges for the provision of access to the transmission network to transfer energy for trade in the market, it comprises two parts:

- (a) *Network Charges*: for the use of the Republic of Ireland transmission system infrastructure for the transportation of electricity. Use of the network occurs by users importing from the system for their consumption (Demand TUoS) and by users exporting to the system for sale (Generation TUoS). Some users are subject to charges for both importing and exporting where generation and demand exist on the same premises.
- (b) *System Services Charges*: the costs arising from the operation and security of the transmission system. EirGrid pays the costs of Ancillary Services to the providers of such services. Users pay EirGrid a System Services Charge in respect of these costs. Some users are subject to charges for both importing and exporting where generation and demand exist on the same premises.

Transmission Use of System charges are grouped into three tariff categories:

1. **Demand Transmission Service (DTS)**: includes three classes of service under which charges to suppliers are levied for Use of System (Network Charges & System Services Charges) associated in serving their customers connected either to the transmission system or the distribution system.
2. **Generation Transmission Service (GTS)**: includes two classes of service under which charges to generators are levied for generators connected to either the transmission system or distribution system for use of system (Network Charges & System Services Charges) associated with their exporting of electricity for sales and periodic importing for consumption by startup and standby equipment.
3. **Autoproducer Transmission Service (ATS)**: includes two classes of service under which charges to Autoproducers are levied for Autoproducers connected to either the transmission system or distribution system for use of system (Network Charges & System Services Charges) associated with their exporting of electricity for sales and importing for consumption by on-site demand.

# **TRANSMISSION USE OF SYSTEM CHARGES**

## TARIFF SCHEDULE DTS-T

### Demand Transmission Service Tariff - Transmission Connections

#### CONDITIONS

**APPLICABLE TO:** *Demand Users* and ESB (Customer Supply Group in its capacity as the Public Electricity Supplier) supplying a *Customer* directly connected to the *Transmission System* at each *Grid Exit Point* from the date of the customer's connection.

**CHARGES:** Use of System Charges for service under Tariff Schedule DTS-T in any one *Charging Period* shall be the sum of:

#### DEMAND TUOS CHARGES

(a) Demand Network Capacity Charge:  
€1259.1326/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*, 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*, or
- ii) the *Customer's Maximum Import Capacity* less 4 MW

(b) Demand Network Unauthorised Usage Charge:  
€691.6570/MWh for *Metered Consumption Energy*<sup>1</sup> transferred in excess of the *Customer's Maximum Import Capacity* in the *Charging Period*.

(c) Demand Network Transfer Charge:  
€1.9959/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

(d) Demand System Services Charge:  
€2.3301/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

#### OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge<sup>2</sup>) applies in addition to the above charges.

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

<sup>1</sup> Metered Consumption Energy is defined later in Definitions and Interpretations. Electricity consumed by directly connected transmission users is not adjusted to take account of distribution losses.

<sup>2</sup> Formerly Capacity Margin Charge

## TARIFF SCHEDULE DTS-D1

### Demand Transmission Service - Distribution Connections with Maximum Import Capacity agreements

#### CONDITIONS

**APPLICABLE TO:** *Demand Users* and ESB (Customer Supply Group in its capacity as the Public Electricity Supplier) 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.

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) will be charged based on tariff schedule DTS-D1. 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 as a proxy for the DTS-D1 tariff schedule.

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

#### DEMAND TUOS CHARGES

(a) Demand Network Capacity Charge:  
€1065.1557/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:  
€1.9959/MWh<sup>3</sup> for *Metered Consumption Energy*<sup>4</sup> transferred in the *Charging Period*.

(c) Demand System Services Charge:  
€2.3301/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

#### OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

<sup>3</sup> Charge including the applicable loss factor for DTS-D1 users can be found in Appendix 1 of this document

<sup>4</sup> Metered Consumption Energy is defined later in Definitions and Interpretations.

## TARIFF SCHEDULE DTS-D2

### Demand Transmission Service - Distribution Connections not served under Tariff Schedule DTS-D1

#### CONDITIONS

**APPLICABLE TO:** *Demand Users* and ESB (Customer Supply Group in its capacity as the Public Electricity Supplier) supplying *Customers* indirectly connected to the *Transmission System* via the *Distribution System* for all other demand, in aggregate, not served under Tariff Schedules DTS-T and DTS-D1.

**CHARGES:** Use of System Charges for service under Tariff Schedule DTS-D2 in any one *Charging Period* shall be the sum of the following:

#### DEMAND TUOS CHARGES

- (a) Demand Network Capacity Charge:<sup>5</sup>  
€4.3337/MWh for all *Metered Consumption Energy*<sup>6</sup> transferred during *Day Hours* in the *Charging Period*.
- (b) Demand Network Transfer Charge:  
€1.9959/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (c) Demand System Services Charge:  
€2.3301/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

#### OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.

**PES ENERGY:** In respect of charges to ESB (Customer Supply Group in its capacity as the Public Electricity Supplier or PES) under this schedule the *Metered Consumption Energy* is derived from a "Remainder" calculation set forth in section 2 of the *Tariff Terms and Conditions*.

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

<sup>5</sup> Charge including the applicable loss factors for DTS-D2 users can be found in Appendix 1 of this document.

<sup>6</sup> Metered Consumption Energy is defined later in Definitions and Interpretations.

## TARIFF SCHEDULE GTS-T

### Generation Transmission Service - Transmission Connections

#### CONDITIONS

**APPLICABLE TO:** *Generation Users* and ESB (Power Generation Business Unit) connected directly to the *Transmission System* at each *Grid Entry Point*.

**CHARGES:** Use of System Charges for service under Tariff Schedule GTS-T in any one *Charging Period* shall be the sum of the following:

#### GENERATION TUOS CHARGES

- (a) Generation Network Location-Based Capacity Charge:  
The Network Location-Based Capacity Charge Rate, as specified in Schedule 1, for each *MW* of the lesser of the *Maximum Export Capacity* or the *Shallow Connection Capacity* at the *Entry Point*, as set forth in Schedule 1, for the *Charging Period*.
- (b) Generation Network Location-Based Non-Firm Capacity Charge:  
The Network Location-Based Non-Firm Capacity Charge Rate for all *Metered Generation Energy* exported in excess of the *Shallow Connection Capacity* at the *Entry Point* during the *Charging Period*. Non-firm charges that exist for any generator will be published in Schedule 1.
- (c) Generation System Services Direct Trip Charge:  
**€1.3775/MW** multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 MW for each *Direct Trip Incident*, which occurred during the *Charging Period*.
- (d) Generation System Services Fast Wind-down Trip Charge:  
**€0.6887/MW** multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 MW for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period*.

#### CONDITIONS

**APPLICABLE TO:** Suppliers serving generators connected directly to the *Transmission System* at each *Grid Entry Point*.

**CHARGES:** Use of System Charges for import requirements in any one *Charging Period* shall be the sum of the following:

#### DEMAND TUOS CHARGES

- (e) Demand Network Capacity Charge:  
**€1259.1326/MW** for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

- i) the *Maximum Import Capacity*, or
- ii) the greater of the Minimum Charging Capacity and the highest *Metered Consumption Demand* in the *Charging Period*.

Where the Minimum Charging Capacity is the greater of:

- i) 80% of the *Maximum Import Capacity*, or
- ii) the *Customer's Maximum Import Capacity* less 4 *MW*

- (f) Demand Network Unauthorised Usage Charge:  
€691.6570/MWh for *Metered Consumption Energy*<sup>7</sup> transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.
- (g) Demand Network Transfer Charge:  
€1.9959/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) Demand System Services Charge:  
€2.3301/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

- OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.
- LOSSES:** For purposes of energy market settlement as set forth in the Trading and Settlement Code all *Metered Generation Energy* transferred during *Day Hours* and *Night Hours* will be adjusted by *Transmission Loss Adjustment Factor* applicable for the month for the *Entry Point* as set forth in the Transmission Loss Adjustment Factor Schedule on the EirGrid website (<http://www.eirgrid.com/>) to account for the self-provision of transmission losses by generators.
- TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

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<sup>7</sup> Metered Consumption Energy is defined later in Definitions and Interpretations. Electricity consumed by directly connected transmission users is not adjusted to take account of distribution losses.

## TARIFF SCHEDULE GTS-D

### Generation Transmission Service - Distribution Connection

#### CONDITIONS

**APPLICABLE TO:** *Generation Users* and ESB (Power Generation Business Unit) indirectly connected to the *Transmission System* via the *Distribution System* at each *Entry Point*.

**CHARGES:** Use of System Charges for service under Tariff Schedule GTS-D in any one *Charging Period* shall be the sum of the following:

#### GENERATION TUOS CHARGES

- (a) Generation Network Location-Based Capacity Charge:  
The Generation Network Location-Based Capacity Charge Rate, as specified in Schedule 1, for each *MW* of the lesser of the *Maximum Export Capacity* or the *Shallow Connection Capacity*, as set forth in Schedule 1, for the *Charging Period*. Where the *Maximum Export Capacity* is less than "10" (ten) *MW* the Generation Network Location-Based Capacity Charge Rate will be "0" (zero).
- (b) Generation Network Location-Based Non-Firm Capacity Charge:  
The Network Location-Based Non-Firm Capacity Charge Rate for all *Metered Generation Energy* exported in excess of the *Shallow Connection Capacity* during the *Charging Period*. Non-firm charges that exist for any generator will be published in Schedule 1.
- (c) Generation System Services Direct Trip Charge:  
€1.3775/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 *MW* for each *Direct Trip Incident*, which occurred during the *Charging Period*.
- (d) Generation System Services Fast Wind-down Trip Charge:  
€0.6887/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 *MW* for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period*.

#### CONDITIONS

**APPLICABLE TO:** Suppliers serving generators connected to the *Distribution System*.

**CHARGES:** Use of System Charges for import requirements in any one *Charging Period* shall be the sum of the following:

#### DEMAND TUOS CHARGES

- (e) Network Capacity Charge:  
€1065.1557/MW for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

- i) the *Maximum Import Capacity*, or
- ii) the greater of the Minimum Charging Capacity and the highest *Metered Consumption Demand* in the *Charging Period*.

Where the Minimum Charging Capacity is the greater of:

- i) 80% of the *Maximum Import Capacity*, or
- ii) the *Customer's Maximum Import Capacity* less 4 *MW*

- (f) Network Transfer Charge:  
€1.9959/MWh for *Metered Consumption Energy*<sup>8</sup> transferred in the *Charging Period*.
- (g) Demand System Services Charge:  
€2.3301/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.

**LOSSES:** For purposes of energy market settlement as set forth in the Trading and Settlement Code all *Metered Generation Energy* transferred during *Day Hours* and *Night Hours* will be adjusted by *Transmission Loss Adjustment Factor* applicable for the month for the *Entry Point* as set forth in the Transmission Loss Adjustment Factor Schedule on the EirGrid website (<http://www.eirgrid.com/>) to account for the self-provision of transmission losses by generators.

In accordance with CER direction, *Generation Users* connected to the Distribution System prior to 19 February 2000 will not be subject to transmission loss adjustment and as a result will have a Transmission Loss Adjustment Factor of 1 (one).

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

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<sup>8</sup> Metered Consumption Energy is defined later in Definitions and Interpretations

## TARIFF SCHEDULE ATS-T

### Autoproducer Transmission Service - Transmission Connections

#### CONDITIONS

**APPLICABLE TO:** *Autoproducer Users* connected directly to the *Transmission System* at each *Grid Entry Point*.

**CHARGES:** Use of System Charges for service under Tariff Schedule ATS-T in any one *Charging Period* shall be set forth in this schedule except the following:

- i) Where the *Autoproducer User's Maximum Import Capacity* is greater than or equal to their *Maximum Export Capacity* then charge (a) will be set to "0" (zero).
- ii) Where the *Autoproducer User's Maximum Export Capacity* is greater than their *Maximum Import Capacity* then charge (e) will be set to "0" (zero).

Charges (b), (c), (d), (f), (g) and (h) are payable by all autoproducers

#### GENERATION TUOS CHARGES

- (a) Generation Network Location-Based Capacity Charge:  
The Network Location-Based Capacity Charge Rate, as specified in Schedule 1, for each *MW* of the lesser of the *Maximum Export Capacity* or the *Shallow Connection Capacity* at the *Entry Point*, as set forth in Schedule 1, for the *Charging Period*.
- (b) Generation Network Location-Based Non-Firm Capacity Charge:  
The Network Location-Based Non-Firm Capacity Charge Rate for all *Metered Generation Energy* exported in excess of the *Shallow Connection Capacity* at the *Entry Point* during the *Charging Period*. Non-firm charges that exist for any generator will be published in Schedule 1.
- (c) Generation System Services Direct Trip Charge:  
**€1.3775/MW** multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 MW for each *Direct Trip Incident*, which occurred during the *Charging Period*.
- (d) Generation System Services Fast Wind-down Trip Charge:  
**€0.6887/MW** multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 MW for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period*.

#### DEMAND TUOS CHARGES

- (e) Demand Network Capacity Charge:  
**€1259.1326/MW** for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

- i) the *Maximum Import Capacity*, or
- ii) the greater of the Minimum Charging Capacity and the highest *Metered Consumption Demand* in the *Charging Period*.

Where the Minimum Charging Capacity is the greater of:

- i) 80% of the *Maximum Import Capacity*, or
- ii) the *Customer's Maximum Import Capacity* less 4 *MW*

- (f) Demand Network Unauthorised Usage Charge:  
**€691.6570/MWh** for *Metered Consumption Energy* transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.
- (g) Demand Network Transfer Charge:  
**€1.9959/MWh** for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) Demand System Services Charge:  
**€2.3301/MWh** for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.

**LOSSES:** For purposes of energy market settlement as set forth in the Trading and Settlement Code all *Metered Generation Energy* transferred during *Day Hours* and *Night Hours* will be adjusted by *Transmission Loss Adjustment Factor* applicable for the month for the *Entry Point* as set forth in the Transmission Loss Adjustment Factor Schedule on the EirGrid website (<http://www.eirgrid.com/>) to account for the self-provision of transmission losses by generators.

### METERED CONSUMPTION ENERGY:

Where an *Autoproducer User* exports to the system and imports from the system in the same *Settlement Period* the *Metered Consumption Energy*, for the purposes of charges (f), (g) and (h) above and for the purpose of calculating Tariff Schedule DSMC (Demand Side Management Charge), shall be reduced by the *Metered Generation Energy* recorded if such exports are metered.

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

## TARIFF SCHEDULE ATS-D

### Autoproducer Transmission Service - Distribution Connections

#### CONDITIONS

**APPLICABLE TO:** *Autoproducer Users* indirectly connected to the *Transmission System* via the *Distribution System* at each *Entry Point*.

**CHARGES:** Use of System Charges for service under Tariff Schedule ATS-D in any one *Charging Period* shall be set forth in this schedule except the following:

- i) Where the *Autoproducer User's Maximum Import Capacity* is greater than or equal to their *Maximum Export Capacity* then charge (a) will be set to "0" (zero).
- ii) Where the *Autoproducer User's Maximum Export Capacity* is greater than their *Maximum Import Capacity* then charge (e) will be set to "0" (zero).

Charges (c), (d), (f) and (g) are payable by all autoproducers

#### GENERATION TUOS CHARGES

- (a) Generation Network Location-Based Capacity Charge:  
The Generation Network Location-Based Capacity Charge Rate, as specified in Schedule 1, for each *MW* of the lesser of *Maximum Export Capacity* or the *Shallow Connection Capacity*, as set forth in Schedule 1, for the *Charging Period*. Where the *Maximum Export Capacity* is less than "10" (ten) *MW* the Generation Network Location-Based Capacity Charge Rate will be "0" (zero).
- (b) Generation Network Location-Based Non-Firm Capacity Charge:  
The Network Location-Based Non-Firm Capacity Charge Rate for all *Metered Generation Energy* exported in excess of the *Shallow Connection Capacity* during the *Charging Period*. Non-firm charges that exist for any generator will be published in Schedule 1.
- (c) Generation System Services Direct Trip Charge:  
**€1.3775/MW** multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 *MW* for each *Direct Trip Incident*, which occurred during the *Charging Period*.
- (d) Generation System Services Fast Wind-down Trip Charge:  
**€0.6887/MW** multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Tripped MW* in excess of 100 *MW* for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period*.

#### DEMAND TUOS CHARGES

- (e) Demand Network Capacity Charge:  
**€1065.1557/MW** for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

- i) the *Maximum Import Capacity*, or
- ii) the greater of the Minimum Charging Capacity and the highest *Metered Consumption Demand* in the *Charging Period*.

Where the Minimum Charging Capacity is the greater of:

- i) 80% of the *Maximum Import Capacity*, or
- ii) the *Customer's Maximum Import Capacity* less 4 *MW*

- (f) Demand Network Transfer Charge:  
€1.9959/MWh for *Metered Consumption Energy*<sup>9</sup> transferred in the *Charging Period*.
- (g) Demand System Services Charge:  
€2.3301/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.

**LOSSES:** For purposes of energy market settlement as set forth in the Trading and Settlement Code all *Metered Generation Energy* transferred during *Day Hours* and *Night Hours* will be adjusted by *Transmission Loss Adjustment Factor* applicable for the month for the *Entry Point* as set forth in the Transmission Loss Adjustment Factor Schedule on the EirGrid website (<http://www.eirgrid.com/>) to account for the self-provision of transmission losses by generators.

In accordance with CER direction, *Autoproducer Users* connected to the Distribution System prior to 19 February 2000 will not be subject to transmission loss adjustment and as a result will have a Transmission Loss Adjustment Factor of 1 (one).

### METERED CONSUMPTION ENERGY:

Where an *Autoproducer User* exports to the system and imports from the system in the same *Settlement Period* the *Metered Consumption Energy*, for the purposes of charges (f) and (g) above and for the purpose of calculating Tariff Schedule DSMC (Demand Side Management Charge), shall be the reduced by the *Metered Generation Energy* where such exports are metered.

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

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<sup>9</sup> Charge including the applicable loss factor can be found in Appendix 1 of this document

## TARIFF SCHEDULE DSMC

### Demand Side Management Charge (formerly Capacity Margin Charge)

#### CONDITIONS

**BACKGROUND:** The CER has determined that winter demand reduction (under the Winter Peak Demand Reduction Scheme and Powersave) be rewarded and have instructed EirGrid to recover the costs associated with this.

**APPLICABLE TO:** All Users in respect of their *Metered Consumption Energy*.

**CHARGES:** Demand Side Management Charges apply to all Tariff Schedules in respect of a User's *Metered Consumption Energy* in any one *Charging Period* per the following:

#### DEMAND SIDE MANAGEMENT CHARGES

Demand Side Management Charge:  
€0.2061/MWh<sup>10</sup> for all *Metered Consumption Energy* transferred during *Day Hours* in the *Charging Period*. This is in accordance with the CER determination on allowable revenues to be recovered for Powersave and Winter Peak Demand Reduction Scheme for 2009 (CER/08/178).

#### OTHER CONDITIONS

**TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

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<sup>10</sup> Charge including the applicable loss factors can be found in Appendix 1 of this document.

## TARIFF SCHEDULE COP1

### Connection Offer Process Application Fees

#### CONDITIONS

**APPLICABLE TO:** applicants who enter the connection offer process.

**CHARGES:** The fee is dependent on the size (capacity) of the applicant's development and whether shallow connection works are involved in dealing with the capacity required:

#### CONNECTION OFFER PROCESS APPLICATION FEES

<b>2009 Connection Offer Application Fees (plus VAT)</b>			
MIC & MEC Capacity Ranges	A	B	C
	Demand Capacity (MIC)	Generation Capacity (MEC)	Shallow Works (If Yes)
≤ 4 MW	€11,864	€13,566	€18,636
> 4 MW ≤ 20 MW	€20,513	€31,458	€32,825
> 20 MW ≤ 100 MW	€33,721	€45,184	€37,664
> 100 MW	€46,176	€48,394	€42,792
Demand only: Fee = $A_{MIC} + C_{MIC} - D$			
Generation only: Fee = $B_{MEC} + C_{MEC} - D$			
Demand & Generation: Fee = $A_{MIC} + B_{MEC} + \text{MAX}[C_{MEC}, C_{MIC}] - D$			
Where D is the sum of the credits for pre-feasibility and advanced works studies still relevant. Determination of D will be in accordance with the Relevant Work Credit structure.			

#### OTHER CONDITIONS

**OTHER CHARGES:** A separate schedule of Connection Offer Process application fees applies for Group Processing applicants. That schedule applies to parties that connect to the distribution or transmission system. Those fees are also approved by the CER.

# **TARIFF TERMS AND CONDITIONS**

## 1 Definitions and Interpretations

Unless otherwise expressly provided in these *Tariff Terms and Conditions*, any definition of a word or expression in the *Act* shall apply to the use of such word or expression in these *Tariff Terms and Conditions*. Words or expressions in lower case Italics have the meaning attributed to such word or expression in the *Act*. In these *Tariff Terms and Conditions* the following terms shall have the following meanings:

**Act** means the Electricity Regulation Act, 1999.

**Autoproducer User** is a User who:

- (a) supplies a natural or legal person who consumes and generates electricity in a Single Premises, or on whose behalf another person generates electricity in the Single Premises where such generation is essentially used in that Single Premises or  
supplies a natural or legal person who consumes and generates electricity in a Single Premises, or on whose behalf another person generates electricity in the Single Premises whereby the generated electricity is produced through a Combined Heat and Power process under a licence by CER,
- (b) *EirGrid* shall provide service to under Tariff Schedules ATS-T or ATS-D as identified in the tariff schedule,
- (c) is a party to which such schedule is applicable; and meets all the eligibility and qualification requirements or pre-requisites set out in the Transmission Use of System Agreement, and
- (d) is obliged to execute and maintain a valid Transmission Use of System Agreement.

**CER** means the Commission for Energy Regulation.

**Charging Period** means a period of time starting at 00:00 on the first day of each month and ending at the end of the 24<sup>th</sup> hour (23:59:59) on the last day of the same calendar month during which a *User* is supplied with service by *EirGrid*.

**Commissioning** means the testing of any item of the generator's equipment required pursuant to the Grid Code or at the generator's request prior to connection or re-connection in order to determine that it meets all requirements and standards for connection to the ESB Transmission System at the date of testing and also to determine the new values of parameters to apply to it following a material alteration or modification, where the commissioning/testing status has been established in accordance with the Trading and Settlement Code.

**Customer** means a *final customer* as defined in the *Act*. For the avoidance of doubt *Generation Users* and *Autoproducer Users* are considered a *Customer* for purposes of the application of demand related charges under Tariff Schedules GTS-T, GTS-D, ATS-T and ATS-D.

**Day Hours** are 08:00 to 23:00 hours inclusive on any day GMT Standard or GMT Summer Time as applicable.

**Demand User** is a person or party who:

- (a) *EirGrid* shall provide service to under Tariff Schedules DTS-T, DTS-D1 or DTS-D2 as identified in the tariff schedule,
- (b) is a party to which such schedule is applicable; and meets all the eligibility and qualification requirements or pre-requisites set out in the Transmission Use of System Agreement for Suppliers, and
- (c) is obliged to execute and maintain a valid Transmission Use of System Agreement for Suppliers

**Distribution Loss Factor** has the meaning as in the Trading and Settlement Code

**Direct Trip Incident**, for the purposes of calculating the Generation System Services Direct Trip Charge, will be each time a *Generation Unit* experiences a sudden and immediate loss of output or reduction in output, which is not in response to a dispatch instruction, at an average

rate of greater than or equal to 15 MW per second and the *Generation Unit* is not *Commissioning*.

**EirGrid** is the holder of the Transmission System Operator licence granted to it by the *CER* under section 14(1)(e) of the *Act*.

**Entry Point** means Connection Point as defined in the Use of System Agreement

**Exit Point** means Connection Point as defined in the Use of System Agreement

**Fast Wind-down Trip Incident**, for the purposes of calculating the Generation System Services Fast Wind-down Trip Charge, will be each time a *Generation Unit* experiences a sudden and immediate loss of or reduction in output, which is not in response to a dispatch instruction, at an average rate of greater than or equal to 3 MW per second and the *Generation Unit* is not *Commissioning*.

**Generation Unit** is any apparatus which produces electricity and for the purposes of applying the Generation System Services Direct Trip Charge and Generation System Services Fast Wind-down Trip Charge, shall include an entire CCGT installation or an entire Wind Farm Power Station, as defined in the Grid Code.

**Generation User** is a person or party who:

- (a) *EirGrid* shall provide service to under Tariff Schedules GTS-T or GTS-D as identified in the tariff schedule,
- (b) is a party to which such schedule is applicable; and meets all the eligibility and qualification requirements or pre-requisites set out in the Transmission Use of System Agreement for Generators, and
- (c) has executed and maintains a valid Transmission Use of System Agreement for Generators

**Grid Entry Point** is the point at which *electricity* is transferred from the Generation User's facility to the *transmission system* and where the *electricity* so transferred is effectively metered or estimated for application of charging under the applicable tariff schedule.

**Grid Exit Point** is the point at which *electricity* is transferred from the *transmission system* to the *distribution system* and where the *electricity* so transferred is effectively metered or estimated for application of charging under the applicable tariff schedule.

**kW** means kilowatt.

**kWh** means kilowatt hour.

**Maximum Export Capacity (MEC)** is as defined in the Connection Agreement in MW or kW and where the value of such (in the Connection Agreement for a given *Entry Point*) is expressed in MVa or kVa then such value will be converted to MW or kW by a factor of 0.95 kW/kVa.

**Maximum Import Capacity (MIC)** is as defined in the Connection Agreement in MW or kW and where the value of such (in the Connection Agreement for a given *Exit Point*) is expressed in MVa or kVa then such value will be converted to MW or kW by a factor of 0.95 kW/kVa.

**Metered Consumption Demand** is the 30-minute interval measurement of electricity demand in *kW* or *MW* at the *Exit Point* for each *Customer* adjusted, where applicable, for distribution losses between the *Grid Exit Point* and the *Exit Point* by the applicable *Distribution Loss Factor*.

**Metered Consumption Energy** is the 30-minute interval measurement of electricity transferred in *kWh* or *MWh* at the *Grid Exit Point* that has been adjusted, where applicable, for distribution losses between the *Grid Exit Point* and the *Exit Point* by the applicable *Distribution Loss Factor*. Interval measurement may be actual interval metered quantities or metered quantities adjusted by consumption profile curves as set forth in the Trading and Settlement Code and or the Metering Code. Where metered quantities are not available, estimated data will be used until actual data is made available.

**Metered Generation Demand** is the 30-minute interval measurement of electricity demand in *kW* or *MW* at the *Entry Point*.

**Metered Generation Energy** is the 30-minute interval measurement of electricity transferred in *kWh* or *MWh* at the *Entry Point*. Where metered quantities are not unavailable, estimated data will be used until actual data is made available.

**MW** means megawatt.

**MWh** means megawatt hour.

**Night Hours** are any hours that are not *Day Hours*.

**Settlement Period** is as is defined in the Trading and Settlement Code.

**Shallow Connection Capacity** has the meaning, if applicable, set forth in the connection agreement. If it is not provided for in the connection agreement it shall be deemed to be 0MW prior to the operational date and equal to the MEC thereafter.

**Tariff Terms and Conditions** means such rules and or other terms and conditions in respect of transmission use of system forming a part of the Statement of Charges for use of the transmission system as approved by the *CER* under section 36 of the *Act*.

**Trading Day** is as defined in the Trading and Settlement Code.

**Trading Period** is as is defined in the Trading and Settlement Code.

**Transmission Loss Adjustment Factor** means a factor derived for the purpose of apportioning responsibility for transmission losses amongst users of the transmission system which is used to adjust metered quantities during energy market settlement.

**Transmission Service** means the service provided by EirGrid to Users in respect of connection to and use of the transmission system.

**Tripped MW** is the change in gross output (in MW) of a *Generation Unit* during a *Direct Trip Incident* or *Fast Wind-down Incident* as appropriate.

**User** is as defined in the relevant Use of System Agreement

## 2 Metering and Charging

### Estimation in lieu of actual metering data

*EirGrid* shall make all reasonable efforts to ensure actual metering data is used to determine Transmission Use of System Charges, however should metering data be unavailable to *EirGrid* or the data provider, estimated data will be used. Recalculation of charges may occur following receipt of actual data. The above provisions will also apply to any data provided in aggregate form using estimated data, in whole or in part, from the Meter Registration System Operator or the Settlement System Administrator.

### Resettlement of charges

Where metering data is in error or has had estimates used and where standing data provided to *EirGrid* has been found to be in error, *EirGrid* will re-calculate charges and re-settle charges with a User upon receipt of revised data as soon as reasonably possible.

### PES Remainder Energy Calculation

The *Metered Consumption Energy* attributable to ESB (Customer Supply Group in its capacity as the Public Electricity Supplier or PES) under Tariff Schedule DTS-D2 is derived from a "Remainder" calculation. The remaining energy attributable to PES is as follows:

PES Remainder for each *Settlement Period* is equal to:

- a) the sum of all *Metered Generation Energy* connected to the system  
**plus**
- b) the net transmission loss adjusted *Import* to the system  
**minus**
- c) the sum of all *Metered Consumption Energy* not served by the PES  
**minus**
- d) the net transmission loss adjusted *Export* to the system  
**minus**
- e) the sum of all *Metered Consumption Energy* attributable to the PES under any other Tariff Schedule.
  - i) Where a) above shall constitute all *Metered Generation Energy* regardless of the party's accession status to the Trading and Settlement Code. Where data in respect of such *Metered Generation Energy* is not being made available to *EirGrid* then *EirGrid* will estimate in lieu of actual data in accordance with the *Tariff Terms and Conditions*.
  - ii) Where if data is not made available to charge the PES as per the appropriate rate schedule, *EirGrid* shall estimate the difference in charges between the DTS-D2 schedule and the applicable schedule and charge the PES accordingly until such time as the required actual data is provided to *EirGrid*.

For the avoidance of doubt *Metered Generation Energy* and *Metered Consumption Energy*, by their definition in the *Tariff Terms and Conditions*, have been adjusted for both transmission and or distribution losses to the delivery boundary of the transmission-distribution system interface.

### Pro-ration of the Demand Network Capacity Charge Rate

The Demand Network Capacity Charge Rate under Tariff Schedules GTS-T, GTS-D, ATS-T, ATS-D, DTS-T, and DTS-D1 will be prorated based on the number of effective days in the *Charging Period* where:

- (a) A *Customer* has switched between *Users* within a *Charging Period*.
- (b) A *User's* new *Customer* is connected within a *Charging Period*.

- (c) A *User's* existing *Customer* is disconnected and or has ceased its requirements for service within a *Charging Period*.
- (d) The *Maximum Import Capacity* value for a *Customer* has been revised within a *Charging Period*. Separate calculations will be performed to determine Charging Capacity (as defined in the applicable tariff schedule) for each *MIC* value's effective period and multiplied by the pro-rated rate. The Unauthorised Usage charge will be similarly calculated based on each *MIC* value's effective periods.

#### **Changes to Maximum Import Capacity**

Revisions to *Maximum Import Capacity* values which occur during a *Charging Period* will be made effective for the charging purposes on the day for the full day.

This will apply in all circumstances except for an *MIC* value reduction in respect of a transmission connected *Customer* in which case the change will be made effective for the charging purposes for the 1<sup>st</sup> full day of the next *Charging Period* following the completion of an 18 month notification period.

#### **Proration of the Generation Network Capacity Charge Rate**

The Generation Network Capacity Charge Rate under Tariff Schedules GTS-T, GTS-D, ATS-T, and ATS-D will be prorated based on the number of effective days in the *Charging Period* where:

- (a) A *User* is connected within a *Charging Period*.
- (b) A *User* is disconnected and or has ceased its requirements for service within a *Charging Period*.

#### **Changes to Maximum Export Capacity**

Revisions to *Maximum Export Capacity* values which occur during a *Charging Period* will be made effective for charging purposes on the day for the full day.

## SCHEDULE 1 - GENERATION LOCATION BASED CAPACITY CHARGES

Station	Units	Capacity	Network Capacity Charge Rate €/MW/month	Equivalent Network Capacity Charge Rate €/kW/year	Non-Firm Energy Charge Rate €/MWh
Aghada 220kV	AD1, AT1, AT2, AT4	528.000 MW	€441.5176	€5.2982	n/a
Aghada CCGT*		431.000 MW	€441.5176	€5.2982	€0.6048
Ardnacrusha	AA1, AA2, AA3, AA4	86.000 MW	€190.8534	€2.2902	n/a
Aughinish (Seal Rock)	SK3, SK4	130.000 MW	€594.5451	€7.1345	n/a
Dublin Bay Power (Irishtown)	DB1	415.000 MW	€757.3059	€9.0877	n/a
Edenderry Power (Cushaling)	ED1	121.500 MW	€210.6776	€2.5281	n/a
Erne (Cathleen's Fall)	ER3, ER4	45.000 MW	€289.1951	€3.4703	n/a
Erne (Cliff)	ER1, ER2	20.000 MW	€289.1951	€3.4703	n/a
Great Island 110kV	GI1, GI2	108.000 MW	€112.7692	€1.3532	n/a
Great Island 220kV	GI3	108.000 MW	€304.4759	€3.6537	n/a
Huntstown	HNC	352.000 MW	€521.2959	€6.2556	n/a
Huntstown 2	HN2	412.000 MW	€515.7042	€6.1885	n/a
Lough Ree Power (Lanesboro)	LR4	94.000 MW	€33.9842	€0.4078	n/a
Lee (Carrigadrohid)	LE3	8.000 MW	€238.5742	€2.8629	n/a
Lee (Inniscarra)	LE1, LE2	19.000 MW	€204.8251	€2.4579	n/a
Liffey (Pollaphuca)	LI1, LI2, LI4	34.000 MW	€106.1434	€1.2737	n/a
Marina	MR1, MRT	112.000 MW	€26.0501	€0.3126	n/a
Moneypoint	MP1, MP2, MP3	862.500 MW	€748.7276	€8.9847	n/a
Northwall 38kV	NW1, NW2, NW3	44.000 MW	€418.4309	€5.0212	n/a
Northwall 220kV	NW4, NW5	227.000 MW	€846.3117	€10.1557	n/a
Poolbeg	PB1, PB2, PB3	461.000 MW	€742.6434	€8.9117	n/a
Poolbeg (Shellybanks)	PB4, PB5, PB6	460.000 MW	€754.4009	€9.0528	n/a
Rhode (Derryiron)	RP1, RP2	103.600 MW	€306.8367	€3.6820	n/a
Tarbert 110kV	TB1, TB2	108.000 MW	€714.4034	€8.5728	n/a
Tarbert 220kV	TB3, TB4	481.400 MW	€728.7659	€8.7452	n/a
Tawnaghmore Peaker	TP1, TP3	104.000 MW	€407.9834	€4.8958	€0.5589

Turlough Hill	TH1, TH2, TH3, TH4	292.000 MW	€16.7742	€9.8013	n/a
Tynagh	TYC	404.000 MW	€55.8409	€7.8701	n/a
West Offaly Power (Shannonbridge)	WO4	141.000 MW	€31.3059	€3.9757	n/a
<b>Transmission Connected Wind</b>					
Athea*		51.000 MW	€779.7576	€9.3571	€3.2369
Ballywater**		31.5 + 10.5 MW	€245.3442	€2.9441	€1.0184
Booltiagh		19.450 MW	€134.9967	€1.6200	€0.5604
Pallas @ Clahane		37.800 MW	€700.9601	€8.4115	€2.9098
Coomacheo @ Garrow		41.225 MW	€469.8942	€5.6387	€1.9506
Coomagearlaghy		42.500 MW	€469.8951	€5.6387	€1.9506
Kingsmountain @ Cunghill (*) (**)		23.75 + 11.05 MW	€351.2309	€4.2148	€1.4580
Derrybrien		59.500 MW	€389.0009	€4.6680	€1.6148
Glanlee		29.800 MW	€469.9117	€5.6389	€1.9507
Golagh		15.000 MW	€271.9984	€3.2640	n/a
Meentycat*		70.96 + 14.0 MW	€323.8167	€3.8858	€1.3442
Bindoo @ Ratrussan		70.000 MW	€89.4351	€1.0732	€0.3713
Mountain Lodge @ Ratrussan		30.620 MW	€89.4351	€1.0732	€0.3713
<b>Distribution Connected Wind</b>	<b>Connected at</b>				
Arklow Wind	Arklow	25.200 MW	€102.5617	€1.2307	n/a
Glanda Commons (Ballybane Wind)	Ballylickey	19.550 MW	€0.0267	€0.0363	€0.0126
Corkermore Wind*	Binbane	15.000 MW	€289.1951	€3.4703	€1.2005
Meenachullalan (Airoishin Wind)	Binbane	11.900 MW	€289.1951	€3.4703	€1.2005
Raheen Barr Wind	Castlebar	18.700 MW	€0.0000	€0.0000	n/a
Taurbeg Wind	Glenlara	25.300 MW	€0.0000	€0.0000	n/a
Cark Wind	Letterkenny	15.000 MW	€246.1134	€2.9534	n/a
Culliagh Wind	Letterkenny	11.880 MW	€246.1134	€2.9534	n/a
Carriganimma*	Macroom	15.000 MW	€295.0209	€3.5403	€1.2247
Carrigannon*	Mallow	20.000 MW	€0.0000	€0.0000	€0.0000
Gartnaneane Wind	Meath Hill	15.000 MW	€0.0000	€0.0000	€0.0000
Sorne Hill Wind	Sorne Hill	31.500 MW	€246.1134	€2.9534	n/a
Lee Strand Co-op (1)*	Tralee	15.000 MW	€111.6917	€7.3403	€2.5392
Muingnaminnane (1)	Tralee	15.300 MW	€111.6917	€7.3403	€2.5392

Tursillagh (1) (Saorgus Energy)	Tralee	15.000 MW	<del>€</del> 11.6917	€7.3403	n/a
Knockawarriga	Trien	22.500 MW	<del>€</del> 79.7576	€9.3571	<del>€</del> 3.2369
Tournafulla (2)	Trien	17.200 MW	<del>€</del> 79.7576	€9.3571	<del>€</del> 3.2369
Beam Hill Wind	Trillick	14.000 MW	<del>€</del> 46.1142	€2.9534	<del>€</del> 1.0216
Drumlough Hill (2)*	Trillick	10.200 MW	<del>€</del> 46.1142	€2.9534	<del>€</del> 1.0216
Moanmore Wind (Kilrush Energy)	Tullabrack	12.600 MW	<del>€</del> 134.9967	€1.6200	n/a
Carnsore Wind	Wexford	11.900 MW	<del>€</del> 2.2017	€0.5064	n/a
Richfield Wind**	Wexford	20.5 + 6.5 MW	<del>€</del> 2.2017	€0.5064	<del>€</del> 0.1752
<b>Notes:</b>					
* Generation expected to connect or increase their MEC during 2009					
** Partial firm access & partial non-firm access					

Schedule 1 provides “firm” TUoS tariffs for existing generators connected to the transmission system and generators connected to the distribution system which are 10MW or above. Schedule 1 also provides “firm” TUoS tariffs for new generators expected to connect to the transmission or distribution system with firm access in 2009. If any new generators connect to the system in 2009 are not listed above, tariffs for such generators will be published at a later date following approval by the CER.

Schedule 1 also contains “non-firm” TUoS tariffs which will apply to generators with non-firm access rights. These generators will be charged an energy based non-firm TUoS charge. The energy charge is derived from the network capacity charge also listed in Schedule 1. Generators with non-firm access include

- generators which are connected but do not have their Operational Certificate
- generators which are connected but have non-firm access until their associated deep reinforcements are built
- peaking plants subject to the CER Decision of the 17<sup>th</sup> October 2005 re non firm access for short term peaking plant subject to any amendments

## **APPENDIX 1: DISTRIBUTION LOSS FACTORS**

A number of the tariffs outlined in the Tariff Schedules are charged based on Metered Consumption Energy, i.e. energy which has been adjusted where applicable for distribution losses. For convenience this appendix has been provided in order to illustrate Transmission Use of System Charges which shall be charged to users connected to the distribution system.

Table 1 below outlines the tariffs which shall apply to users on tariff schedules DTS-D1 and DTS-D2 during day and night hours, taking into account the relevant distribution loss factor (DLF). The charges have been calculated by multiplying the relevant tariffs, which are charged based on Metered Consumption Energy, by the appropriate distribution loss factor <sup>11</sup>.

Distribution users will be charged the tariffs below for each MWh of energy consumed. Users on tariff schedule DTS-D1 will also pay the Network Capacity Charge as outlined in schedule DTS-D1.

<b>Table 1: Tariffs for a user on Schedules DTS - D1 &amp; DTS - D2 with Distribution Loss Factors applied</b>					
	Time	<b>Voltage level at which the user is connected</b>			
		<b>110 or higher</b>	<b>38</b>	<b>MV</b>	<b>LV</b>
<b>2009 Distribution Loss Adjustment Factors</b>	Day	1.000	1.019	1.044	1.096
	Night	1.000	1.016	1.038	1.081
<b>Network Transfer Charge (€/MWh)</b>	Day	1.9959	2.0338	2.0837	2.1875
	Night	1.9959	2.0278	2.0717	2.1576
<b>System Services Charge (€/MWh)</b>	Day	2.3301	2.3744	2.4326	2.5538
	Night	2.3301	2.3674	2.4186	2.5188
<b>Demand Side Management Charge (€/MWh)</b>	Day	0.2061	0.2100	0.2152	0.2259

<sup>11</sup> 2009 Distribution Loss Factors have been provided to EirGrid by CER (CER/08/173(b))