



# **Statement of Charges**

**1<sup>st</sup> January 2006 to 31<sup>st</sup> December 2006**

Prepared by: ESB National Grid

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## **CORRESPONDENCE INFORMATION**

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## **INTRODUCTION**

This document sets out ESB National Grid's (ESBNG) charges for use of the transmission system for the period January 1<sup>st</sup> 2006 to December 31<sup>st</sup> 2006. The charges published in this statement have been derived in accordance with the revenue allowed by the Commission for Energy Regulation (CER) for the year 2006.

These tariffs may be subject to change during 2006 and in such cases ESBNG 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 ESB National Grid 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.

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 INDUSTRY**

The Electricity Regulation Act 1999 and the Statutory Instrument 445 of 2000 established the current legal framework for the electricity industry in the Republic of Ireland. The legislation provided for the opening of 28% of the electricity market to choice from the 19<sup>th</sup> February 2000 in accordance with European Union Directive 96/92 EC. The directive calls for access to the system for independent generators and independent suppliers to serve the requirements of customers eligible to choose supplier. The Irish market is fully open since 19<sup>th</sup> February 2005..

### **THE ELECTRICITY MARKET**

The electricity market in the Republic of Ireland is a day-ahead bilateral trading system where independent sector parties are provided "Top-up" and "Spill" imbalance services from ESB. Generators nominate initial positions from which they are dispatched from, unless adjusted to meet system constraints, and then trade final contract positions ex-post before settling final imbalances. Further information on market rules and protocols may be found in the Trading and Settlement Code, which can be found on EirGrid website <http://www.eirgrid.com/>

### **TRANSMISSION**

ESB National Grid, the business unit within ESB responsible for the Transmission System Operator (TSO) function, provides 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. ESBNG pays the costs of Ancillary Services to the providers of such services and also pays constraints costs and costs associated with the settlement system. Users pay ESBNG a System Services Charge in respect of these costs. Use of the system services 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.

Transmission Use of System charges are grouped into four 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.
4. **Interconnector Transmission Service (ITS)**: under which charges to interconnector parties are levied for Use of System (Network Charge) associated with access to the interconnector to transport electricity to serve suppliers in Northern Ireland.

# **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:

€ 1128.2013/MW for each MW of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lessor 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:

€ 626/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:

€ 1.7897/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

(d) Demand System Services Charge:

€ 2.9347/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

#### OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin 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>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.

## 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:  
€ 952.2324/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:  
€ 1.7897/MWh<sup>2</sup> for *Metered Consumption Energy*<sup>3</sup> transferred in the *Charging Period*.

(c) Demand System Services Charge:  
€ 2.9347/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

#### OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin 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>2</sup> Charge including the applicable loss factor for DTS-D1 users can be found in Appendix 1 of this document

<sup>3</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>4</sup>  
€ 3.8701/MWh for all *Metered Consumption Energy*<sup>5</sup> transferred during *Day Hours* in the *Charging Period*.
- (b) Demand Network Transfer Charge:  
€ 1.7897/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (c) Demand System Services Charge:  
€ 2.9347/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

#### OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin 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 2.3 of the *Tariff Terms and Conditions*.

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

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<sup>4</sup> Charge including the applicable loss factors for DTS-D2 users can be found in Appendix 1 of this document.

<sup>5</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 lessor 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:  
**€ 1.2353/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:  
**€ 0.6177/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:  
**€ 1128.2013/MW** for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lessor 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:  
**€ 626MWh** for *Metered Consumption Energy*<sup>6</sup> transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.
- (g) Demand Network Transfer Charge:  
**€ 1.7897/MWh** for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) Demand System Services Charge:  
**€ 2.9347/MWh** for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

- OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin Charge) and GCC (Generation Commissioning 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 *Season* for the *Entry Point* as set forth in 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>6</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 *Maximum Export 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 System Services Direct Trip Charge:  
**€ 1.2353/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*.
- (c) Generation System Services Fast Wind-down Trip Charge:  
**€ 0.6177/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

- (d) Network Capacity Charge:  
**€ 952.2329/MW** for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lessor 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*

- (e) Network Transfer Charge:  
€ 1.7897/MWh for *Metered Consumption Energy*<sup>7</sup> transferred in the *Charging Period*.
- (f) Demand System Services Charge:  
€ 2.9347/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin Charge) and GCC (Generation Commissioning 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 *Season* for the *Entry Point* as set forth in Transmission Loss Adjustment Factor Schedule on 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>7</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 *Maximum Export 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:  
**€ 1.2353/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:  
**€ 0.6177/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:  
**€ 1128.2013/MW** for each *MW* of Charging Capacity in the *Charging Period*.  
  
Where Charging Capacity is the lessor 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:  
**€ 626/MWh** for *Metered Consumption Energy* transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.

- (g) Demand Network Transfer Charge:  
€ 1.7897/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) Demand System Services Charge:  
€ 2.9347/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin Charge) and GCC (Generation Commissioning 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 *Season* for the *Entry Point* as set forth in Transmission loss Adjustment Factor Schedule on 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 (e), (f) and (g) above and for the purpose of calculating Tariff Schedule CMC (Capacity Margin Charge), shall be the 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 (d) will be set to "0" (zero).

Charges (b), (c), (e) and (f) 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 *Maximum Export Capacity*, as set forth in Schedule 1, for the *Charging Period*. Where the *Maximum Export Capacity* is less than "10" (ten) *MW* connected to the distribution system will have a Generation Network Location-Based Capacity Charge Rate of "0" (zero).
- (b) Generation System Services Direct Trip Charge:  
€ 1.2353/*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*.
- (c) Generation System Services Fast Wind-down Trip Charge:  
€ 0.6177/*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

- (d) Demand Network Capacity Charge:  
€ 952.2329/*MW* for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lessor 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*

- (e) Demand Network Transfer Charge:  
€ 1.7897/MWh for *Metered Consumption Energy*<sup>8</sup> transferred in the *Charging Period*.
- (f) Demand System Services Charge:  
€ 2.9347/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

## OTHER CONDITIONS

**OTHER CHARGES:** Tariff Schedule CMC (Capacity Margin Charge) and GCC (Generation Commissioning 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 *Season* for the *Entry Point* as set forth in 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 (e), and (f) above and for the purpose of calculating Tariff Schedule CMC (Capacity Margin Charge), shall be 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>8</sup> Charge including the applicable loss factor can be found in Appendix 1 of this document

## TARIFF SCHEDULE CMC

### Capacity Margin Charge

#### CONDITIONS

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

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

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

#### CAPACITY MARGIN CHARGES

Capacity Margin Charge:

€0.76<sup>9</sup> for all *Metered Consumption Energy* transferred during *Day Hours* in the *Charging Period*.  
(This is per the CER draft Tariffs publication)

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

## TARIFF SCHEDULE GCC

### Generation Commissioning Charge

#### CONDITIONS

**BACKGROUND:** Generation Stations and Autoproducers may cause the TSO to incur incremental costs in respect of Ancillary Services, Congestion and Constraints during any *commissioning/testing* phase of the generator. To see details of the calculation methods for these charges please see the paper published on the Eirgrid website “**2005 Generator Testing Charges – Background and Calculation (22<sup>nd</sup> February 2005)**”

**APPLICABLE TO:** All users, during any *commissioning/testing* period, receiving service under Tariff Schedules GTS-T, GTS-D, ATS-T and ATS-D.

#### COMMISSIONING CHARGES

Unit Output MWs	Total Test Charge €/MWh
<b>PHASE 1</b>	
GEN ≤ 50	3.28
50 <GEN ≤ 100	3.05
100 <GEN ≤ 150	3.59
150 <GEN ≤ 200	4.83
200 <GEN ≤ 250	6.39
250 <GEN ≤ 300	9.34
300 <GEN ≤ 350	13.55
350 <GEN	18.23
<b>PHASE 2</b>	
GEN ≤ 50	3.28
50 <GEN ≤ 100	3.05
100 <GEN ≤ 150	3.00
150 <GEN ≤ 200	3.07
200 <GEN ≤ 250	3.20
250 <GEN ≤ 300	3.44
300 <GEN ≤ 350	5.62
350 <GEN	7.99

#### OTHER CONDITIONS

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

## TARIFF SCHEDULE ITS

### Interconnector Transmission Service Tariff

#### CONDITIONS

**APPLICABLE TO:** *Interconnector Parties* for the purposes of exchange of electricity between the Northern Ireland market and the Republic of Ireland market up to 31<sup>st</sup> March 2006. Details on products and charges after 31<sup>st</sup> March 2006 shall be made available in the future.

**AVAILABLE:** When there is sufficient *NTC* to support the request.

**CHARGES:** The Usage Charges for service under Tariff Schedule ITS in any one *Charging Period* shall be the sum of the following:

#### INTERCONNECTOR TUOS CHARGES

- (a) Long-term Export Capacity Charges:  
Interconnector parties with LongTerm Contracted Capacity Entitlement (LTCCE) to export from Republic of Ireland to Northern Ireland pay interconnector charges as set out in the relevant Interconnector Auction Agreement .
- (b) Short-term Interconnector Usage Charges:

<u>Effective Period</u>	<u>Daily Rate</u>
01-April-05 to 31-March-06	€ 0.20/MWh

**The charge from 31<sup>st</sup> March 2006 shall be published on Eirgrid's website**  
(<http://www.eirgrid.com/>).

For each trading period granted pursuant to an allocated trade in excess of their Long Term Contracted Capacity Entitlement in the South – North direction. The Rate as noted above for short-term interconnector usage to *Export* energy from the Republic of Ireland to Northern Ireland is payable to ESB National Grid under this tariff schedule.

**Imports from Northern Ireland** - Interconnector capacity charges to *Import* energy from Northern Ireland to the Republic of Ireland are payable to Northern Ireland Electricity Plc. (NIE) under the applicable tariff schedule in Northern Ireland. Transmission Use of System charges are payable to ESBNG for imports from Northern Ireland <sup>10</sup>

Short-term interconnector usage charges and Interconnector Auction Export Capacity Charge revenues are shared equally by ESBNG and NIE and are used to offset the costs of operating the interconnector allocation mechanism and reduce Use of System charges.

<sup>10</sup> A demand user located in Republic of Ireland importing from Northern Ireland is required to pay TUoS charges to ESBNG under the appropriate tariff schedule.

## OTHER CONDITIONS

**LOSSES ADJUSTMENT:** For purposes of energy market settlement all *Interconnector Energy Trades* across the *Interchange Point* during *Day Hours* and *Night Hours* will be adjusted by the *Transmission Loss Adjustment Factor* for the applicable *Season* and transfer flow direction as set forth in Transmission Loss Adjustment Factor Schedule on EirGrid website (<http://www.eirgrid.com/>).

Currently ESBNG and SONI along with both regulators are reviewing the treatment of losses across the interconnector for flows in both directions.

**CAPACITY REQUESTS:** Details on the procedure for obtaining interconnector capacity and use of the interconnector are available in Agreed Procedure 06 of the Trading and Settlement Code which can be found on the website (<http://www.eirgrid.com/>).

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

# **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.

**Available Transfer Capacity (ATC)** is as defined in the Grid Code.

**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) *ESBNG* 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 ESB National Grid.

**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) *ESBNG* 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*.

**Entry Point** has the meaning in the Use of System Agreement

**ESBNG** means the ESB National Grid business unit.

**Exit Point** has the meaning as in the Use of System Agreement

**Export** means a flow of electricity from the Republic of Ireland to Northern Ireland.

**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 module or an entire Wind Farm Power Station, as defined in the Grid Code.

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

- (a) *ESBNG* 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.

**Import** means a flow of electricity from Northern Ireland to the Republic of Ireland.

**Interchange Point** is the point or points of interconnection between the *transmission system* and any electric system bordering the Republic of Ireland.

**Interconnector Capacity** means capacity granted by *ESBNG* pursuant to Tariff Schedule ITS or through another process by *ESBNG* under which a Participant may schedule *Interconnector Energy Trades* for the applicable *Trading Day*.

**Interconnector Energy Trade** means the nominated *Import* or *Export* of electric energy between the wholesale electricity markets of Northern Ireland and the Republic of Ireland by a Participant pursuant to the Trading and Settlement Code.

**Interconnector Party** is one who is signed to the Trading and Settlement Code in the Republic of Ireland and/or an Interconnector Auction Agreement.

**kW** means kilowatt.

**kWh** means kilowatt hour.

**Maximum Export Capacity (MEC)** is as defined in the Connection Agreement in MW of 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 Measurement 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 available, 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*.

**Net Transfer Capacity (NTC)** as defined in Agreed Procedure 6 of the Trading & Settlement Code

**Season** means, unless otherwise specified, the grouping of full calendar months for the purpose of tariff or charge rate setting. The "Winter" *Season* shall be the months of November, December, January, and February. The "Spring-Autumn" *Season* shall be the months of March, April, May, September, and October. The "Summer" *Season* shall be the months of June, July, and August.

**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 of *ESBNG* as amended, modified, or substituted from time to time by the *CER*.

**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 the *ESBNG* 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**

### **2.1 Estimation in lieu of actual metering data**

*ESBNG* 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 *ESBNG* or the data provider, estimated data will be used. Recalculation of charges will occur in the next *Charging Period* 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 System Settlement Administrator.

### **2.2 Resettlement of charges**

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

### **2.3 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 *ESBNG* then *ESBNG* will estimate in lieu of actual data in accordance with section 2.1 of the *Tariff Terms and Conditions*.
  - ii) Where if data is not made available to charge the PES as per the appropriate rate schedule, *ESBNG* 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 *ESBNG*.

For the avoidance of doubt *Metered Generation Energy* and *Metered Consumption Energy*, by their definition in section 1 of 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.

### **2.4 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.

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

Following implementation of *ESBNG's* new TUoS Settlement System, 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.

## **2.6 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*.

## **2.7 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.

### **Generator Capacity Charges**

Schedule 1 provides 'firm' transmission 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' transmission tariffs for new generators expected to connect to the transmission (or distribution) system with firm access in 2006. It should be noted that generation location tariffs will also apply to generators connecting to the transmission system through out the year with firm access rights not included in the Schedule 1, tariffs for these generators will be published at a later date, following approval by the CER. It should also be noted that this table does not contain non-firm transmission tariffs, which will apply to generators with non-firm access rights.

**SCHEDULE 1 - GENERATION LOCATION BASED CAPACITY CHARGES**

<b>Station</b>	<b>Units</b>	<b>Capacity</b>	<b>Network Capacity Charge Rate €/MW/month</b>	<b>Equivalent €/kW/year</b>
Aghada 220kV	AD1, AT1, AT2, AT4	528.0 MW	€516.8783	€6.2025
Ardnacrusha	AA1, AA2, AA3, AA4	85.5 MW	€113.4042	€1.3609
Aughinish (Seal Rock)	SK1, SK2	110.0 MW	€311.3725	€3.7365
Dublin Bay Power (Irishstown)	DB1	415.0 MW	€666.7683	€8.0012
Edenderry Power (Cushaling)	ED1	121.5 MW	€271.0117	€3.2521
Erne (Cathleen's Fall)	ER1, ER2	45.0 MW	-€77.7342	-€0.9328
Erne (Cliff)	ER3, ER4	20.0 MW	-€77.7342	-€0.9328
Great Island 110kV	GI1, GI2	114.0 MW	€199.3517	€2.3922
Great Island 220kV	GI3	112.0 MW	€370.4475	€4.4454
Huntstown	CT, ST	352.0 MW	€429.3542	€5.1523
Lough Ree Power (Lanesboro)	LA4	94.0 MW	-€52.7908	-€0.6335
Lee (Carrigadrohid)	LE3	8.0 MW	€177.0167	€2.1242
Lee (Inniscarra)	LE1, LE2	19.0 MW	€235.3767	€2.8245
Liffey (Pollaphuca)	LI1, LI2, LI4	34.0 MW	€199.2550	€2.3911
Marina	MR1, MRT	112.3 MW	€111.3708	€1.3365
Moneypoint	MP1, MP2, MP3	862.5 MW	€612.4167	€7.3490
Northwall 38kV	NW1, NW2, NW3	44.0 MW	€342.1508	€4.1058
Northwall 220kV	NW4, NW5	227.0 MW	€1,079.4350	€12.9532
Poolbeg	PB1, PB2, PB3	486.0 MW	€832.9258	€9.9951
Poolbeg (Shellybanks)	PB4, PB5, PB6	457.0 MW	€724.9550	€8.6995
Rhode (Derryiron)	RH1, RH2	103.6 MW	€291.8442	€3.5021
Tarbert 110kV	TB1, TB2	114.0 MW	€509.4258	€6.1131
Tarbert 220kV	TB3, TB4	481.4 MW	€585.4350	€7.0252
Turlough Hill	TH1, TH2, TH3, TH4	292.0 MW	€638.9100	€7.6669
Tynagh	CT, ST	404.0 MW	€527.1550	€6.3259
West Offaly Power (Shannonbridge)	SG4	141.0 MW	€310.1917	€3.7223
<b>Transmission Connected Wind</b>				
Ballywater		31.5 MW	€0.0000	€0.0000
Booltiagh		19.5 MW	€292.3283	€3.5079
Coomagearlaghy		42.5 MW	€198.9217	€2.3871
Cunghill		23.8 MW	€0.0000	€0.0000
Derrybrien		60.0 MW	€367.0208	€4.4043
Golagh		15.0 MW	€0.0000	€0.0000
Meentycat		71.0 MW	€0.0000	€0.0000
Moneypoint 110kV		21.9 MW	€292.3283	€3.5079
<b>Distribution Connected Wind</b>				
	<b>Connected at</b>			
Arklow Wind	Arklow	25.2 MW	€81.4267	€0.9771
Glanta Commons Wind	Ballylickey	19.6 MW	€0.0000	€0.0000
Raheen Barr Wind	Castlebar	18.7 MW	€0.0000	€0.0000
Dromdeveen Wind	Glenlara	10.5 MW	€112.5058	€1.3501
Taurbeg Wind	Glenlara	26.0 MW	€112.5058	€1.3501
Cark Wind	Leterkenny	15.0 MW	€0.0000	€0.0000
Culliagh Wind	Letterkenny	11.9 MW	€0.0000	€0.0000
Carrigcannon Wind	Mallow	20.0 MW	€112.1767	€1.3461
Gartnaneane Wind	Meath Hill	15.0 MW	€0.0000	€0.0000
Sorne Hill Wind	Sorne Hill	31.5 MW	€0.0000	€0.0000
Saorgus Wind	Tralee	15.0 MW	€183.2800	€2.1994
Beam Hill Wind	Trillick	14.0 MW	€0.0000	€0.0000
Moanmore Wind	Tullabrack	12.6 MW	€292.3283	€3.5079
Carnsore Wind	Wexford	11.9 MW	€0.0000	€0.0000
Richfield Wind	Wexford	27.0 MW	€0.0000	€0.0000
<b>Emergency Generators</b>				
Aghada 110kV		52.0 MW	€476.6367	€5.7196
Tawnaghmore		52.0 MW	€0.0000	€0.0000

## **TRANSMISSION LOSS ADJUSTMENT FACTORS**

Details on Transmission Loss Adjustment Factors applicable to Generation Users and Interconnector Parties for the year 2006 will be available on Eirgrid's website ([www.eirgrid.com](http://www.eirgrid.com)).

## **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.

Tables 1 and 2 below outline 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.

**Table 1: Tariffs for a user on schedule DTS - D1 with Distribution Loss Factors applied**

	Time	Voltage Level at which the user is connected			
		110	38	mv	lv
2006 Distribution Loss Adjustment Factors	Day	1	1.019	1.047	1.099
	Night	1	1.016	1.038	1.08
Network Transfer Charge (MWh)	Day	1.7897	1.824	1.874	1.967
	Night		1.818	1.858	1.933
System Services Charge (MWh)	Day	2.9347	2.990	3.073	3.225
	Night		2.982	3.046	3.169
Network Unauthorised Usage Charge (MWh)	Day	626	637.894	655.422	687.974
	Night		636.016	649.788	676.080
Capacity Margin Charge	Day	0.76	0.774	0.796	0.835

**Table 2: Tariffs for a user on schedule DTS - D2 with Distribution Loss Factors applied**

	Time	Voltage Level at which the user is connected			
		110	38	mv	lv
2006 Distribution Loss Adjustment Factors	Day	1	1.019	1.047	1.099
	Night	1	1.016	1.038	1.08
Network Transfer Charge (MWh)	Day	1.7897	1.824	1.874	1.967
	Night		1.818	1.858	1.933
System Services Charge (MWh)	Day	2.9347	2.990	3.073	3.225
	Night		2.982	3.046	3.169
Network Unauthorised Usage Charge (MWh)	Day	626	637.894	655.422	687.974
	Night		636.016	649.788	676.080
Capacity Margin Charge	Day	0.76	0.774	0.796	0.835

<sup>11</sup> 2006 Distribution Loss Factors have been provided to ESBNG by CER.