



Statement of Charges

1st January 2004 to 31st December 2004

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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 1st 2004 to December 31st 2004. 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 2004.

These tariffs may be subject to change during 2004 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 19th 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. Currently 40% of the Irish market is open to choice and this will increase to 56% from February 2004.

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 pay 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*.

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:

€ 1550.0152/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 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:

€ 600/MWh for *Metered Consumption Energy*¹ transferred in excess of the *Customer's Maximum Import Capacity* in the *Charging Period*.

(c) Demand Network Transfer Charge:

€ 2.3665/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

(d) Demand System Services Charge:

€ 2.3927/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.

¹ 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* 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:
€ 1336.1326/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* multiplied by the highest applicable *Distribution Loss Factor*, or
- ii) the greater of the Minimum 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:
€ 2.3665/MWh² for *Metered Consumption Energy*³ transferred in the *Charging Period*.

(c) Demand System Services Charge:
€ 2.3927/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.

² Charge including the applicable loss factor for DTS-D1 users can be found in Appendix 1 of this document

³ 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:⁴
€ 5.2094/MWh for all *Metered Consumption Energy*⁵ transferred during *Day Hours* in the *Charging Period*.
- (b) Demand Network Transfer Charge:
€ 2.3665/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (c) Demand System Services Charge:
€ 2.3927/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.

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

⁵ 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*. This charge is only applicable or available where Non-Firm Capacity has been provided pursuant to the connection agreement. Non-firm charges that exist for any generator will be published in Schedule 1.
- (c) Generation System Services Direct Trip Charge:
€ 1.2043/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 MW for each *Direct Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.
- (d) Generation System Services Fast Wind-down Trip Charge:
€ 0.6021/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 MW for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.

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:
€ 1550.0152/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 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:
€ 600MWh for *Metered Consumption Energy*⁶ transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.
- (g) Demand Network Transfer Charge:
€ 2.3665/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) Demand System Services Charge:
€ 2.3927/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.

⁶ 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:

€ 1.2043/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 *MW* for each *Direct Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.

(c) Generation System Services Fast Wind-down Trip Charge:

€ 0.6021/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 *MW* for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.

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:

€ 1336.1326/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 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:
€ 2.3665/MWh for *Metered Consumption Energy*⁷ transferred in the *Charging Period*.
- (f) Demand System Services Charge:
€ 2.3927/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.

⁷ 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 (d) will be set to "0" (zero).

Charges (b), (c), (e), (f) and (g) 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 System Services Direct Trip Charge:
€ 1.2043/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 MW for each *Direct Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.
- (c) Generation System Services Fast Wind-down Trip Charge:
€ 0.6021/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 MW for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.

DEMAND TUOS CHARGES

- (d) Demand Network Capacity Charge:
€ 1550.0152/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 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 Unauthorised Usage Charge:
€ 600/MWh for *Metered Consumption Energy* transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.

- (f) Demand Network Transfer Charge:
€ 2.3665/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (g) Demand System Services Charge:
€ 2.3927/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), (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 *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:

€ 1.2043/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 *MW* for each *Direct Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.

(c) Generation System Services Fast Wind-down Trip Charge:

€ 0.6021/MW multiplied by the square of the Chargeable Megawatts, where the Chargeable Megawatts are the *Trip Output MW* in excess of 100 *MW* for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period* where a generation unit has incurred a sudden and immediate loss of output resulting in the opening of the generator breaker, which occurs without warning to ESBNG.

DEMAND TUOS CHARGES

(d) Demand Network Capacity Charge:

€ 1336.1326/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 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:
€ 2.3665/MWh for *Metered Consumption Energy*⁸ transferred in the *Charging Period*.
- (f) Demand System Services Charge:
€ 2.3927/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.

⁸ 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:

€ 1.60/MWh⁹ for all *Metered Consumption Energy* transferred during *Day Hours* in the *Charging Period*.

OTHER CONDITIONS

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

⁹ 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 the commissioning phase of the generator.

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

COMMISSIONING CHARGES

CHARGES: No charge has been published this year as no generators greater than 100MW are expected to commission in 2004.

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 31st March 2004. Details on products and charges after 31st March 2004 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-03 to 31-March-04	€ 0.66/MWh

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 ¹⁰

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.

¹⁰ 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 User¹¹ is a person or party who:

- (a) who is a natural or legal person who consumes and generates electricity in a Single Premises, where such generation is essentially for its own use in that Single Premises
- (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 24th 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.

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 System Services Generator Trip Charge, will be each time a generation unit experiences a sudden and immediate loss of output either resulting in the opening of the generator breaker and/or a reduction of greater than 15 MW per second.

Entry Point has the meaning in the Use of System Agreement

ESBNG means the ESB National Grid business unit.

¹¹ This is the current definition of an Autoproducer, this definition may change as a result of the draft direction issued by CER which extends this definition to include all licensed CHP generators.

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 System Services Generator Trip Charge, will be each time a generation unit experiences a sudden and immediate loss of output resulting in a reduction of greater than 3 MW per second and less than 15 MW per second followed by the opening of the generator breaker.

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 of 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 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*.

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.

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.

Trip Output MW: for the purposes of calculating the System Services Generator Trip Charge shall mean the gross, or generated, output of the generation unit in MW prior to the Trip Incident. For *Autoproducers Users* this shall mean net exported MW and shall be "0" (zero) when the Autoproducer User is importing.

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

Prior to the 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 for the 1st full day of the next *Charging Period*.

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 1st full day of the next *Charging Period* following the completion of an 18 month notification period.

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.

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.

Schedule 1
Generation Location Based Capacity Charges

Station	Units	Capacity	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Aghada	AD1, AT1, AT2, AT4	528.0 MW	€649.8500	€7.7982
Ardnacrusha	AA1,AA2 AA3,AA4	85.5 MW	-€29.6333	-€0.3556
Bellacorick	BK1,BK2	36.8 MW	€9.2333	€0.1108
Edenderry Power		117.6 MW	€402.6000	€4.8312
Erne	ER1,ER2	45.0 MW	€75.8167	€0.9098
Erne	ER3,ER4	20.0 MW	€108.6083	€1.3033
Golagh	GOW	15.0 MW	€330.8667	€3.9704
Great Island	GI1,GI2	114.0 MW	€247.4083	€2.9689
Great Island	GI3	112.0 MW	€329.0667	€3.9488
Huntstown	CT,ST	352.0 MW	€573.0167	€6.8762
Irishtown		400.0 MW	€773.6667	€9.2840
Lanesboro	LA2,LA8	128.0 MW	€278.8750	€3.3465
Lee	LE3	8.0 MW	€419.3667	€5.0324
Lee	LE1,LE2	19.0 MW	€496.6083	€5.9593
Liffey	LI1,LI2	30.0 MW	€565.6750	€6.7881
MARIG1	MR1,MRT	112.3 MW	€401.7917	€4.8215
Moneypoint	MP1,MP2, MP3	862.5 MW	€1,115.1167	€13.3814
Northwall	NW1,NW2, NW3	44.0 MW	€504.8250	€6.0579
Northwall	NW4,NW5	227.0 MW	€1,260.3667	€15.1244
Poolbeg	PB1,PB2, PB3	486.0 MW	€1,040.8917	€12.4907
Poolbeg	PB4,PB5, PB6	457.0 MW	€788.3917	€9.4607
Shannonbridge	SH1	37.0 MW	€10.3333	€0.1240
Shannonbridge	SH2,SH3	77.5 MW	€140.0500	€1.6806
TARBG1	TB1,TB2	114.0 MW	€716.4333	€8.5972
TARBG3	TB3,TB4	481.4 MW	€794.2500	€9.5310
Tur_Hil	TH1,TH2 TH3,TH4	292.0 MW	€883.2667	€10.5992
Cunghill		23.8 MW	€0.0000	€0.0000
Derrybrien		60.0 MW	€268.4083	€3.2209
Meentycat		43.6 MW	€242.3167	€2.9078
	Connected at			
Seorgus Wind	Tralee	15.0 MW	€361.3417	€4.3361
Cark Wind	Leterkenny	15.0 MW	€151.0667	€1.8128
Culliagh Wind	Letterkenny	11.9 MW	€151.0667	€1.8128
Camsore Wind	Wexford	11.9 MW	€69.7667	€0.8372
Arklow Wind	Arklow	25.5 MW	€323.5083	€3.8821
Raheen Barr Wind	Castlebar	18.7 MW	€0.0000	€0.0000
Moanmore Wind	Tullabrack	12.6 MW	€0.0000	€0.0000
Gartnaneane	Meath Hill	10.5 MW	€41.0667	€0.4928
Beam Hill Wind	Trillick	14.0 MW	€177.5417	€2.1305
Some Hill Wind	Trillick	31.5 MW	€177.5417	€2.1305
Richfield Wind	Wexford	20.3 MW	€69.7667	€0.8372
	Emergency Generators			
Aghada		52.0 MW	€652.1750	€7.8261
Tawnaghmore		52.0 MW	€26.1917	€0.3143

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 2004. 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.

TRANSMISSION LOSS ADJUSTMENT FACTORS

Details on Transmission Loss Adjustment Factors applicable to Generation Users and Interconnector Parties for the year 2004 will be available on Eirgrid's website (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 factor¹².

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 factor applied¹³

	Voltage level at which user is connected				
	Time	110KV	38KV	MV	LV
2004 Distribution Loss Factors as advised by CER	Day	1	1.016	1.043	1.095
	Night	1	1.014	1.036	1.08
Network Transfer Charge (MWh)	Day	2.3665	2.4044	2.4683	2.5913
	Night	2.3665	2.3996	2.4517	2.5558
System Services Charge (MWh)	Day	2.3927	2.4310	2.4956	2.6200
	Night	2.3927	2.4262	2.4788	2.5841
Network Unauthorised Usage Charge (MWh)	Day	600	609.60	625.80	657.00
	Night	600	608.40	621.60	648.00
Capacity Margin Charge (MWh)	Day	1.6	1.6256	1.6688	1.7520

¹² 2004 Distribution Loss Factors have been provided to ESBNG by CER.

¹³ Tariffs on Table 1 apply at all times during the year except in the summer period from 8am-9am and 11pm-12am.

Table 2: Tariffs for a user on schedule DTS-D2 with Distribution Loss factor applied ¹⁴

	Voltage level at which user is connected			
	Time	38KV	MV	LV
2004 Distribution Loss Factors as advised by CER	Day	1.016	1.043	1.095
	Night	1.014	1.036	1.08
Network Capacity Charge (MWh)	Day	5.2928	5.4334	5.7043
Network Transfer Charge (MWh)	Day	2.4044	2.4683	2.5913
	Night	2.3996	2.4517	2.5558
System Services Charge (MWh)	Day	2.4310	2.4956	2.6200
	Night	2.4262	2.4788	2.5841
Capacity Margin Charge (MWh)	Day	1.6256	1.6688	1.7520

¹⁴ Tariffs on Table 2 apply at all times during the year except in the summer period from 8am-9am and 11pm-12am.