



Statement of Charges

1st January 2003 to 31st December 2003

Prepared by: ESB National Grid
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INTRODUCTION

This document sets out ESB National Grid's charges for use of the transmission system for the period January 1st 2003 to December 31st 2003. 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 2003.

The document has been prepared by ESB National Grid in accordance with Section 35 and submitted 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.

THE ELECTRICITY INDUSTRY

The Electricity Regulation Act 1999 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 on 19 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 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 under tariff rates regulated by the Commission for Energy Regulation. 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 function, provides access to the transmission system.

TRANSMISSION USE OF SYSTEM

Transmission Use of System: the provision of access to the transmission network to transfer energy for trade in the market and is comprised of two parts:

- (a) *Network Charges*: for the use of the Republic of Ireland transmission system infrastructure for the transportation of electricity.
- (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.

Transmission Use of System is further subdivided into three categories:

- (a) **Demand Transmission Service**: 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 distribution system.
- (b) **Generation Transmission Service**: 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 serving of suppliers.
- (c) **Interconnector Transmission Service**: under which charges to interconnector users are levied for Use of System (Network Charge) associated with access to the interconnector to transport electricity to serve suppliers in Northern Ireland or to transport electricity from Northern Ireland to suppliers in the Republic of Ireland.

TRANSMISSION USE OF SYSTEM CHARGES

TARIFF SCHEDULE GTS-T

Generation Transmission Service - Transmission Connected Generation

- APPLICABLE TO:** *Generation Users and ESB (Power Generation Business Unit) connected directly to the Transmission System at each Grid Entry Point.*
- USE OF SYSTEM:** Use of System Charges for service under Tariff Schedule GTS-T in any one *Charging Period* shall be the sum of:
- (a) 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) System Services Generator Direct Trip Charge:
€ 1.1547/MW for each *MW squared of Trip Output MW* in excess of 100 MW for each *Direct Trip Incident*, which occurred during the *Charging Period* as further defined in Section 2 of the *Tariff Terms and Conditions*.
 - (b) System Services Generator Fast Wind-down Trip Charge:
€ 0.5773/MW for each *MW squared of Trip Output MW* in excess of 100 MW for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period* as further defined in Section 2 of the *Tariff Terms and Conditions*.
- LOSSES:** For purposes of energy market settlement as set forth in the Trading and Settlement Code all *Metered 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.
- TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

TARIFF SCHEDULE GTS-D

Generation Transmission Service - Distribution Connected Generation

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

Any Generator with capacity less than 10 MW connected to the distribution system will not be subject to a Transmission Use of System Charge.

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

- (a) Network Location-Based Capacity Charge:
The 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*.
- (b) System Services Generator Direct Trip Charge:
€ 1.1547/MW for each MW squared of *Trip Output MW* in excess of 100 MW for each *Direct Trip Incident*, which occurred during the *Charging Period* as further defined in Section 2 of the *Tariff Terms and Conditions*.
- (b) System Services Generator Fast Wind-down Trip Charge:
€ 0.5773/MW for each MW squared of *Trip Output MW* in excess of 100 MW for each *Fast Wind-down Trip Incident*, which occurred during the *Charging Period* as further defined in Section 2 of the *Tariff Terms and Conditions*.

LOSSES: For purposes of energy market settlement as set forth in the Trading and Settlement Code all *Metered 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 unless exempted pursuant to Section 2.5 of the *Tariff Terms and Conditions*.

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

TARIFF SCHEDULE DTS-T

Demand Transmission Service Tariff - Transmission Connected Demand

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.*

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

- (a) Network Capacity Charge:
€ 1317.6967/MW for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lessor of:

- the *Customer's Maximum Import Capacity*, or
- the greater of the Minimum Capacity and the highest *Metered Demand* of the *Customer* in the *Charging Period*

Where the Minimum Charging Capacity is the greater of:

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

- (b) Network Unauthorised Usage Charge:¹
€ 600MWh² for *Metered Energy*³ transferred in excess of the *Customer's Maximum Import Capacity* in the *Charging Period*.

- (c) Network Transfer Charge:
€ 1.9626/MWh for *Metered Energy* transferred in the *Charging Period*.

- (d) System Services Charge:
€ 2.5116/MWh for *Metered Energy* transferred in the *Charging Period*.

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

Note: Demand users must also pay the Capacity Margin Charge (see page 13)

¹ Network Unauthorised Usage Charge shall not be implemented until further notice.

³Metered 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 Tariff - Distribution Connected Demand with Maximum Import Capacity agreements

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* and profile metering.

Where possible any *demand users* that have an MIC of 0.5MW 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. In time it is envisaged that relevant information will become available to charge all appropriate users on DTS-D1 tariff schedule.

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

(a) Network Capacity Charge:
€ 1174.6739/MW for each MW of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

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

Where the Minimum Charging Capacity is the greater of:

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

(b) Network Unauthorised Usage Charge:⁴
€ 600/MWh⁵ for *Metered Energy*⁶ transferred in excess of the *Customer's Maximum Import Capacity* multiplied by the applicable *Distribution Loss Factor* in the *Charging Period*.

(c) Network Transfer Charge:
€ 1.9626/MWh⁵ for *Metered Energy* transferred in the *Charging Period*.

⁴ Network Unauthorised Usage Charge shall not be implemented until further notice.

⁵ Charge including the applicable loss factor for DTS-D1 users can be found in Appendix 1 of this document.

⁶ Metered Energy is defined later in Definitions and Interpretations.

- (d) System Services Charge:
€ 2.5116/MWh⁷ for *Metered Energy* transferred in the *Charging Period*.

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

Note: Demand users must also pay the Capacity Margin Charge (see page 13)

⁷ Charge including the applicable loss factor for DTS-D1 users can be found in Appendix 1 of this document.

TARIFF SCHEDULE DTS-D2

Demand Transmission Service Tariff - Distribution Connected Demand

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.

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

- (a) Network Capacity Charge:⁸
€ 4.3634/MWh for all *Metered Energy*⁹ transferred during *Day Hours* in the *Charging Period*.
- (b) Network Transfer Charge:⁸
€ 1.9626/MWh for *Metered Energy* transferred in the *Charging Period*.
- (c) System Services Charge:⁸
€ 2.5116/MWh for *Metered Energy* transferred in the *Charging Period*.

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

Note: Demand users must also pay the Capacity Margin Charge (see page 13)

⁸ Charge including the applicable loss factors for DTS-D2 users can be found in Appendix 1 of this document.

⁹ Metered Energy is defined later in Definitions and Interpretations.

CAPACITY MARGIN CHARGE

The CER has determined that capacity margin be remunerated and have instructed ESBNG to recover the costs associated with this as follows:

Applicable to:	All demand users (i.e. DTS-T, DTS-D1 and DTS-D2)
Tariff Rate:	€ 2.0996/MWh¹⁰ for all metered energy transferred during day hours in the charging period.
Terms:	Terms and conditions set forth in the <i>Tariff Terms and Conditions</i> form part of this tariff schedule.

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

TARIFF SCHEDULE ITS

Interconnector Transmission Service Tariff

APPLICABLE TO: *Interconnector Users* for the purposes of exchange of electricity between the Northern Ireland market and the Republic of Ireland market.

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

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

Daily Interconnector Capacity Charge:

€ 24.25/MW/Day for *Daily Interconnector Capacity* granted pursuant to a *Daily Interconnector Capacity* request to *Export* energy from the Republic of Ireland to Northern Ireland payable to ESB National Grid under this tariff schedule.¹¹

On submission of a request for *Daily Interconnector Capacity*, an *Interconnector User* is liable for payment of Daily Interconnector Capacity Charge based on the capacity made available to the *Interconnector User* irrespective of whether or not it is actually used by the *Interconnector User*.

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 Ireland¹²

Daily Interconnector Capacity Charge revenues are shared equally by ESBNG and NIE and are used to reduce Use of System charges in each jurisdiction.

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/>)

CAPACITY REQUESTS: A separate document detailing the procedure for obtaining interconnector capacity and use of the interconnector shall be made available by ESBNG 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.

¹¹ This rate applies until 31st March 2003. Following this date the applicable rate shall be published on Eirgrid website.

¹² 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.

TARIFF TERMS AND CONDITIONS

1 Definitions and Interpretations

1.1 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.

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*.

Daily Interconnector Capacity means some portion of the *ATC* requested and granted pursuant to Tariff Schedule ITS.

Day Hours are 08:00 to 23:00 hours inclusive on any day.

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) has executed and maintains a valid Transmission Use of System Agreement for Suppliers

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

Direct Trip Incident is as defined in s. 2.3 of the *Tariff Terms and Conditions*

Entry Point has the meaning in the Use of System Agreement

ESBNG means the ESB National Grid business unit.

Exit Point has the meaning 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 is as defined in s. 2.4 of the *Tariff Terms and Conditions*

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 User is a party to the Trading and Settlement code in the Republic of Ireland or the Interim Settlement arrangements that are in place in Northern Ireland or an Interconnector Auction Agreement and is authorised to make a request for *Interconnector Capacity*.

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 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 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.

MW means megawatt.

MWh means megawatt hour.

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

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.

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 as defined in the Trading and Settlement Code.

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

Transmission Loss Adjustment Factor: For the purpose of apportioning responsibility for transmission losses amongst users of the transmission system.

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 is as defined in s. 2.2 of the *Tariff Terms and Conditions*
User is as defined in the relevant Use of System Agreement

2 Generation Transmission Service

Tariff Schedules GTS-T and GTS-D

System Services Generator Trip Charges

- 2.1 The System Services Generator Trip Charge shall apply to ESB Power Generation and *Generation Users* whose 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*.
- 2.2 For the purposes of calculating the System Services Generator Trip Charge, **Trip Output MW** shall mean the gross, or generated, output of the generation unit in MW prior to the *Trip Incident*.
- 2.3 For the purposes of calculating the System Services Generator Trip Charge, a **Direct Trip Incident** shall 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.
- 2.4 For the purposes of calculating the System Services Generator Trip Charge, a **Fast Wind-down Trip Incident** shall 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.

Applicability of Transmission Loss Adjustments

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

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	€499.4317	€5.9932
Ardnacrusha	AA1,AA2 AA3,AA4	85.5 MW	-€96.5517	-€1.1586
Bellacorick	BK1,BK2	36.8 MW	-€610.0175	-€7.3202
Edenderry Power		117.6 MW	€603.1883	€7.2383
Erne	ER1,ER2	45.0 MW	-€1,125.3300	-€13.5040
Erne	ER3,ER4	20.0 MW	-€1,093.8908	-€13.1267
Golagh	GOW	15.0 MW	€0.0000	€0.0000
Great Island	GI1,GI2	114.0 MW	€125.4050	€1.5049
Great Island	GI3	112.0 MW	€233.3692	€2.8004
Huntstown	CT,ST	352.0 MW	€528.9525	€6.3474
Irishtown		400.0 MW	€720.9433	€8.6513
Lanesboro	LA2,LA3	77.5 MW	-€202.8375	-€2.4341
Lee	LE3	8.0 MW	€142.4992	€1.7100
Lee	LE1,LE2	19.0 MW	€224.7858	€2.6974
Liffey	LI1,LI2	30.0 MW	€526.0292	€6.3124
MARIG1	MR1,MRT	112.3 MW	€303.0075	€3.6361
Moneypoint	MP1,MP2, MP3	862.5 MW	€978.8775	€11.7465
Northwall	NW1,NW2, NW3	44.0 MW	€464.1275	€5.5695
Northwall	NW4,NW5	227.0 MW	€1,184.9275	€14.2191
Poolbeg	PB1,PB2, PB3	486.0 MW	€973.3600	€11.6803
Poolbeg	PB4,PB5, PB6	457.0 MW	€735.0917	€8.8211
Shannonbridge	SH1	37.0 MW	-€115.3492	-€1.3842
Shannonbridge	SH2,SH3	77.5 MW	-€51.6742	-€0.6201
TARBG1	TB1,TB2	114.0 MW	€533.0467	€6.3966
TARBG3	TB3,TB4	481.4 MW	€596.5308	€7.1584
Turl_Hil	TH1,TH2 TH3,TH4	292.0 MW	€808.7858	€9.7054
Cunghill		23.8 MW	€0.0000	€0.0000
	Connected at			
Seorgus Wind	Tralee	15.0 MW	€227.4108	€2.7289
Cark Wind	Letterkenny	15.0 MW	€0.0000	€0.0000
Culliagh Wind	Letterkenny	11.9 MW	€0.0000	€0.0000

Schedule 1 provides ‘firm’ transmission tariffs for existing generators connected to the transmission system or connected to the distribution system which are above a 10MW threshold, and new generators connecting to the transmission (or distribution) system with firm access prior to July 2003. 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. 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 Users for the year 2003 will be available on Eirgrid's website (www.eirgrid.com) from October 2002.

APPENDIX 1: DISTRIBUTION LOSS FACTORS

A number of the tariffs outlined in the Tariff Schedules are charged based on Metered 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 energy, by the appropriate distribution loss factor¹³.

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 applied¹⁴

	Time	Voltage level at which user is connected			
		110KV	38KV	MV	LV
2003 Distribution Loss Factors as advised by CER	Day	1	1.018	1.046	1.101
	Night	1	1.015	1.038	1.085
Network Transfer Charge (MWh)	Day	1.9626	1.9979	2.0529	2.1608
	Night	1.9626	1.9920	2.0372	2.1294
System Services Charge (MWh)	Day	2.5116	2.5568	2.6271	2.7653
	Night	2.5116	2.5493	2.6070	2.7251
Network Unauthorised Usage Charge (MWh)	Day	600	610.80	627.60	660.6
	Night	600	609	622.8	651
Capacity Margin Charge (MWh)	Day	2.0996	2.1374	2.1962	2.3117
	Night	-	-	-	-

¹³ 2003 Distribution Loss Factors have been provided to ESBNG by CER.

¹⁴ 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 ¹⁵

	Time	Voltage level at which user is connected		
		38KV	MV	LV
2003 Distribution Loss Factors as advised by CER	Day	1.018	1.046	1.101
	Night	1.015	1.038	1.085
Network Capacity Charge	Day	4.4419	4.5641	4.8041
	Night	-	-	-
Network Transfer Charge (MWh)	Day	1.9979	2.0529	2.1608
	Night	1.9920	2.0372	2.1294
System Services Charge (MWh)	Day	2.5568	2.6271	2.7653
	Night	2.5493	2.6070	2.7251
Capacity Margin Charge (MWh)	Day	2.1374	2.1962	2.3117
	Night	-	-	-

¹⁵ Tariffs on Table 2 apply at all times during the year except in the summer period from 8am-9am and 11pm-12am.