



Statement of Charges
Applicable from 1st October 2016

CONTENTS

DOCUMENT HISTORY	3
CORRESPONDENCE INFORMATION.....	3
INTRODUCTION	4
DEMAND CHARGES	
TARIFF SCHEDULE DTS-T (LEUs).....	7
TARIFF SCHEDULE DTS-D1 (LEUs)	8
TARIFF SCHEDULE DTS-D1 (NON-LEUs)	9
TARIFF SCHEDULE DTS-D2 (LEUs)	10
TARIFF SCHEDULE DTS-D2 (NON-LEUs)	11
GENERATOR CHARGES	
TARIFF SCHEDULE GTS-T.....	12
TARIFF SCHEDULE GTS-D.....	14
AUTOPRODUCER CHARGES	
TARIFF SCHEDULE ATS-T.....	16
TARIFF SCHEDULE ATS-D.....	18
OTHER CHARGES	
TARIFF SCHEDULE DSMC.....	20
CONNECTION OFFER PROCESS CHARGES	
TARIFF SCHEDULE COP	21
TARIFF SCHEDULE GPA	22
TARIFF SCHEDULE MODIFICATION FEES	23
TARIFF TERMS AND CONDITIONS	
DEFINITIONS AND INTERPRETATIONS.....	25
METERING AND CHARGING	28
SCHEDULE 1 - GENERATION LOCATION BASED CHARGES	29
SCHEDULE 2 – OTHER SYSTEM CHARGES.....	39
APPENDIX 1: DISTRIBUTION LOSS FACTORS.....	41
APPENDIX 2: TYPES OF MODIFICATIONS AND ASSOCIATED LEVELS	43

DOCUMENT HISTORY

1. The 2016/17 Statement of Charges document v1.0 was approved by the CER on 22/09/2016 and published on the EirGrid website www.eirgrid.com on 22/09/2016.

CORRESPONDENCE INFORMATION

Further information on matters discussed in this document may be obtained from the following:

Customer Relations
EirGrid plc
Block 2 - The Oval
160 Shelbourne Road
Ballsbridge
Dublin 4
Ireland

Email: info@eirgrid.com

Tel: +353 1 702 6642

Fax: +353 1 661 5375

INTRODUCTION

This statement sets out EirGrid's charges for use of the transmission system applicable from October 1st 2016 until such time another Statement is approved by the Commission under Section 36 of the Electricity Regulation Act, 1999. The Transmission Use of System charges published in this statement have been derived in accordance with the 2016 revenue ([CER/15/216](#)) and the 2017 revenue ([CER/16/248](#)) allowed by the Commission for Energy Regulation (CER).

These tariffs may be subject to change and in such cases EirGrid shall notify suppliers and generators. Any additional generators who connect to the transmission system or distribution system throughout the year will be liable for charges and these charges shall be published when derived. In accordance with the SEM Committee Decision, Interconnectors are not charged TUoS (see SEM/11/078). This is in line with EU legislation (Regulation EC No 714/2009).

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

This statement sets out the following:

- Charges for the use of the Transmission System
- Connection Offer Process and Modification Application Fees
- Other System Charges

The following are published as separate documents:

- Statement of Payments and Charges for Ancillary Services Providers
- Transmission Loss Adjustment Factors

Transmission Use of System Charges (TUoS)

The transmission system is the high voltage grid which brings bulk power to all regions of Ireland. It is the backbone of the power system. The main charge for transporting power in bulk across the power system is the Transmission Use of System Charge (TUoS). TUoS charges are separate from the cost paid by customers for energy.

TUoS charges are designed to recover two components:

- (a) **Network Charges:** for the use of the transmission system infrastructure for the transportation of electricity. Use of the network occurs by users importing from the system (Demand TUoS) and by users exporting to the system (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:** for the recovery of the costs arising from the operation and security of the transmission system.

TUoS charges are grouped into three tariff categories:

1. **Demand Transmission Service (DTS):** includes five 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 on generators connected to either the transmission or distribution system for use of the system (Network Charges & System Services Charges) associated with their exporting of electricity for sale and periodic importing for consumption by start-up and standby equipment.

3. **Autoproducer Transmission Service (ATS):** includes two classes of service under which charges to Autoproducers are levied on Autoproducers connected to either the transmission or distribution system for use of the system (Network Charges & System Services Charges) associated with their exporting of electricity for sale and importing for consumption by on-site demand.

Distribution Loss Factors

The application of Distribution Loss Factors is necessary to adjust Transmission Use of System charges to account for Distribution System losses for Users that are connected to the Distribution System. The relevant Distribution Loss Factor will depend on the Users' connection voltage and on the time of day (day/night).

In addition to the Transmission Use of System Charges, this statement also sets out the following charges and fees

Connection Offer Process and Modification Application Fees

This statement sets out the fees for Users who wish to apply to connect to the Transmission System in Ireland. There are two types of application fees; those that are applicable to the Group Processing Approach and those outside that approach. The fee depends on the size of the connection and if shallow connection works are involved.

Other System Charges

Other System Charges are applicable to centrally dispatched generators and are described in the Other System Charges methodology statement¹. These charges do not form part of the Transmission Use of System revenue requirement.

Generation Location Based Charges

Generation Location Based Charges, also referred to as GTUoS, are applicable to all generators connected to the transmission system and to generators connected to the distribution system which have a contracted Maximum Export Capacity of above 5MW.

¹ <http://www.eirgridgroup.com/customer-and-industry/general-customer-information/ancillary-and-charges/>

TRANSMISSION USE OF SYSTEM CHARGES

TARIFF SCHEDULE DTS-T (LEUs)

Demand Transmission Service - Transmission Connections

CONDITIONS

APPLICABLE TO: *Demand Users* supplying a *Customer* directly connected to the *Transmission System* at each *Grid Exit Point* and those users classed as belonging to the DUoS DG10 group from the customer's Connection Date.

CHARGES: Use of System Charges for service under Tariff Schedule DTS-T (LEUs²) in any one *Charging Period* shall be the sum of:

DEMAND TUOS CHARGES

(a) **Demand Network Capacity Charge:**

€ 1,305.9947/MW for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

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

Where the Minimum Charging Capacity is the greater of:

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

(b) **Demand Network Unauthorised Usage Charge:**

€ 735.5768/MWh for *Metered Consumption Energy*³ transferred in excess of the *Customer's Maximum Import Capacity* in the *Charging Period*.

(c) **Demand Network Transfer Charge:**

€ 2.1114/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

(d) **Demand System Services Charge:**

€ 2.8210/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

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

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

² Large Energy User (LEU) is defined later in Definitions and Interpretations.

³ 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 (LEUs)

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

CONDITIONS

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

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

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

DEMAND TUOS CHARGES

(a) **Demand Network Capacity Charge:**

€ 1,093.3314/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:**

€ 2.1114/MWh for *Metered Consumption Energy*⁴ transferred in the *Charging Period*.

(c) **Demand System Services Charge:**

€ 2.8210/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

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

LOSSES: Demand TUoS charges for distribution connections maybe subject to adjustment by distribution loss factors (see Appendix 1).

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

⁴ Metered Consumption Energy is defined later in Definitions and Interpretations.

TARIFF SCHEDULE DTS-D1 (NON-LEUs)

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

CONDITIONS

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

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

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

DEMAND TUOS CHARGES

(a) **Demand Network Capacity Charge:**

€ 1,482.1834/MW for each MW of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

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

Where the Minimum Charging Capacity is the greater of:

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

(b) **Demand Network Transfer Charge:**

€ 2.8623/MWh for *Metered Consumption Energy*⁵ transferred in the *Charging Period*.

(c) **Demand System Services Charge:**

€ 3.8242/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

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

LOSSES: Demand TUoS charges for distribution connections maybe subject to adjustment by distribution loss factors (see Appendix 1).

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

⁵ Metered Consumption Energy is defined later in Definitions and Interpretations.

TARIFF SCHEDULE DTS-D2 (LEUs)

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

CONDITIONS

APPLICABLE TO: *Demand Users* supplying a *Customer* indirectly connected to the *Transmission System* via the *Distribution System* not served under Tariff Schedule DTS-D1 (LEUs) and is a *Large Energy User*.

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

DEMAND TUOS CHARGES

- (a) **Demand Network Capacity Charge:**
€ 4.4440/MWh for *Metered Consumption Energy*⁶ transferred during *Day Hours* in the *Charging Period*.
- (b) **Demand Network Transfer Charge:**
€ 2.1114/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (c) **Demand System Services Charge:**
€ 2.8210/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

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

LOSSES: Demand TUoS charges for distribution connections maybe subject to adjustment by distribution loss factors (see Appendix 1).

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.

TARIFF SCHEDULE DTS-D2 (NON-LEUs)

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

CONDITIONS

APPLICABLE TO: *Demand Users* 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 (LEUs), DTS-D1 (LEUs), DTS-D1 (Non-LEUs) and DTS-D2 (LEUs) and are not *Large Energy Users*.

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

DEMAND TUOS CHARGES

- (a) **Demand Network Capacity Charge:**
€ 6.0246/MWh for *Metered Consumption Energy*⁷ transferred during *Day Hours* in the *Charging Period*.
- (b) **Demand Network Transfer Charge:**
€ 2.8623/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (c) **Demand System Services Charge:**
€ 3.8242/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

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

LOSSES: Demand TUoS charges for distribution connections maybe subject to adjustment by distribution loss factors (see Appendix 1).

NET DEMAND ADJUSTMENT ENERGY:

In respect of charges to *Demand Users* for Net Demand Adjustment MWh under this schedule the *Metered Consumption Energy* is derived from the "Net Demand Adjustment" energy figures supplied by the Single Electricity Market Operator.

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 GTS-T

Generation Transmission Service - Transmission Connections

CONDITIONS

- APPLICABLE TO:** *Generation Users* 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 *Maximum Export Capacity*⁸ at the *Entry Point*, as set forth in Schedule 1, for the *Charging Period*.
- (b) **Generation System Services Trip Charge:**
The Trip Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for Trips will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.
- (c) **Generation System Services Short Notice Declaration Charge:**
The Short Notice Declaration (SND) Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for SNDs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.
- (d) **Generation System Services Generator Performance Incentive Charge:**
The Generator Performance Incentive (GPI) Charge Rates are contained in Schedule 2, Table B of this Statement of Charges. Charges for GPIs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

CONDITIONS

- APPLICABLE TO:** *Demand Users* 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:**
€ 1,305.9947/MW for each *MW* of Charging Capacity in the *Charging Period*.
Where Charging Capacity is the lesser of:
- i) the *Maximum Import Capacity*, or

⁸ The Generation Network Location-Based Capacity Charge shall commence on the customer's Connection Date. For phases and extensions, this charge will commence on the date of first export of the phase or extension.

- 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:**
€ 735.5768/MWh for *Metered Consumption Energy*⁹ transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.
- (g) **Demand Network Transfer Charge:**
€ 2.1114/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) **Demand System Services Charge:**
€ 2.8210 /MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

- OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.
- LOSSES:** As set forth in the Trading and Settlement Code *Transmission Loss Adjustment Factors* are applicable in the energy market. The Transmission Loss Adjustment Factor Schedule can be found on the [EirGrid website](#).
- TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

⁹ 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 Connections

CONDITIONS

- APPLICABLE TO:** *Generation 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 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 greater than "5" (five) MW* of the *Maximum Export Capacity*¹⁰ as set forth in Schedule 1, for the *Charging Period*. Where the *Maximum Export Capacity* is 5 (five) MW or less then the Generation Network Location-Based Capacity Charge Rate will be "0" (zero).
- (b) **Generation System Services Trip Charge:**
The Trip Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for Trips will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.
- (c) **Generation System Services Short Notice Declaration Charge:**
The Short Notice Declaration (SND) Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for SNDs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.
- (d) **Generation System Services Generator Performance Incentive Charge:**
The Generator Performance Incentive (GPI) Charge Rates are contained in Schedule 2, Table B of this Statement of Charges. Charges for GPIs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

CONDITIONS

- APPLICABLE TO:** *Demand Users* serving generators connected to the *Distribution System*.
- CHARGES:** Use of System Charges for import requirements in any one *Charging Period* shall be dependent on the Demand Transmission Service applicable to the demand associated with the distribution connected generator:

DEMAND TUOS CHARGES

Demand TUoS charges chargeable under either Tariff Schedule DTS-D1 (LEUs) or DTS-D1 (Non-LEUs) or DTS-D2 (LEUs) or DTS-D2 (Non-LEUs) as appropriate which is dependent on the characteristics of the demand associated with the distribution connected generator in accordance with the characteristics set out in the relevant Tariff Schedules.

¹⁰ The Generation Network Location-Based Capacity Charge shall commence on the customer's connection date. For phases and extensions, this charge will commence on the date of first export of the phase or extension.

OTHER CONDITIONS

- OTHER CHARGES:** Tariff Schedule DSMC (Demand Side Management Charge) applies in addition to the above charges.
- LOSSES:** As set forth in the Trading and Settlement Code *Transmission Loss Adjustment Factors* are applicable in the energy market. The Transmission Loss Adjustment Factor Schedule can be found on the [EirGrid website](#).
- TERMS:** Terms and conditions set forth in the *Tariff Terms and Conditions* form part of this tariff schedule.

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), and (d) may be payable by an autoproducer, this depends on their generator characteristics

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

GENERATION TUOS CHARGES

(a) **Generation Network Location-Based Capacity Charge:**

The Network Location-Based Capacity Charge Rate, as specified in Schedule 1, for each *MW* of the *Maximum Export Capacity*¹¹ at the *Entry Point*, as set forth in Schedule 1, for the *Charging Period*.

(b) **Generation System Services Trip Charge:**

The Trip Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for Trips will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

(c) **Generation System Services Short Notice Declaration Charge:**

The Short Notice Declaration (SND) Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for SNDs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

(d) **Generation System Services Generator Performance Incentive Charge:**

The Generator Performance Incentive (GPI) Charge Rates are contained in Schedule 2, Table B of this Statement of Charges. Charges for GPIs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

DEMAND TUOS CHARGES

(e) **Demand Network Capacity Charge:**

€ 1,305.9947/MW for each *MW* of Charging Capacity in the *Charging Period*.

Where Charging Capacity is the lesser of:

¹¹ The Generation Network Location-Based Capacity Charge shall commence on the customer's Connection Date. For phases and extensions, this charge will commence on the date of first export of the phase or extension.

- 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:**
€ 735.5768/MWh for *Metered Consumption Energy* transferred in excess of the *Maximum Import Capacity* in the *Charging Period*.
- (g) **Demand Network Transfer Charge:**
€ 2.1114/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.
- (h) **Demand System Services Charge:**
€ 2.8210/MWh for *Metered Consumption Energy* transferred in the *Charging Period*.

OTHER CONDITIONS

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

LOSSES: As set forth in the Trading and Settlement Code *Transmission Loss Adjustment Factors* are applicable in the energy market. The Transmission Loss Adjustment Factor Schedule can be found on the [EirGrid website](#).

METERED CONSUMPTION ENERGY:

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

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

TARIFF SCHEDULE ATS-D

Autoproducer Transmission Service - Distribution Connections

CONDITIONS

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

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

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

Charges (b), (c), and (d) may be payable by an autoproducer, this depends on their generator characteristics

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 greater than "5" (five) MW* of the *Maximum Export Capacity*¹² as set forth in Schedule 1, for the *Charging Period*. Where the *Maximum Export Capacity* is 5 (five) MW or less then the Generation Network Location-Based Capacity Charge Rate will be "0" (zero).

(b) Generation System Services Trip Charge:

The Trip Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for Trips will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

(c) Generation System Services Short Notice Declaration Charge:

The Short Notice Declaration (SND) Charge Rates are contained in Schedule 2, Table A of this Statement of Charges. Charges for SNDs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

(d) Generation System Services Generator Performance Incentive Charge:

The Generator Performance Incentive (GPI) Charge Rates are contained in Schedule 2, Table B of this Statement of Charges. Charges for GPIs will be calculated and applied for the *Charging Period* in accordance with the provisions of the Other System Charges Methodology Statement developed on an all-island basis by EirGrid in conjunction with SONI, based on Regulatory Authorities' harmonised decisions.

DEMAND TUOS CHARGES

(e) Demand TUoS Charges

Demand TUoS charges chargeable under either Tariff Schedule DTS-D1 (LEUs) or DTS-D1 (Non-LEUs) as appropriate which is dependent on the characteristics of the demand associated with the

¹² The Generation Network Location-Based Capacity Charge shall commence on the customer's connection date. For phases and extensions, this charge will commence on the date of first export of the phase or extension.

distribution connected autoproducer in accordance with the characteristics set out in the relevant Tariff Schedules.

OTHER CONDITIONS

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

LOSSES: As set forth in the Trading and Settlement Code *Transmission Loss Adjustment Factors* are applicable in the energy market. The Transmission Loss Adjustment Factor Schedule can be found on the the [EirGrid website](#).

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 Demand Network Transfer Charge and Demand System Services Charge and for the purpose of calculating Tariff Schedule DSMC (Demand Side Management 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.

TARIFF SCHEDULE DSMC**Demand Side Management Charge****CONDITIONS**

- BACKGROUND:** The CER has determined that winter demand reduction (under Powersave) be rewarded and has instructed EirGrid to recover the costs associated with this.
- APPLICABLE TO:** All Users in respect of their *Metered Consumption Energy*.
- CHARGES:** Demand Side Management Charges apply to all Tariff Schedules in respect of a User's *Metered Consumption Energy* in any one *Charging Period* per the following:

DEMAND SIDE MANAGEMENT CHARGES**Demand Side Management Charge:**

€0.0003/MWh 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.

TARIFF SCHEDULE COP

Connection Offer Process Application Fees

CONDITIONS

APPLICABLE TO: *Generation or Autoproducer (as applicable) Users* applying for a connection directly to the *Transmission System* at a *Grid Entry Point*. not processed under the group processing approach i.e. Non-GPA¹³ applicants

Demand User applying to directly connect to the *Transmission System* at a *Grid Exit Point*.

Any transmission capacity increase request from a *Demand User* or a *Non-GPA Generation User* shall be charged as per the COP fees.

CHARGES: An initial fee of €7,000 (including VAT) is required to progress an application which is netted off the full application fee. The TSO shall only commence an application check when the initial fee is received unless otherwise agreed.

The remaining fee is dependent on the size (capacity) of the applicant's development and whether shallow connection works are involved in facilitating the capacity required. The TSO shall only commence processing a completed application when the remaining fee is received unless otherwise agreed.

CONNECTION OFFER PROCESS APPLICATION FEES

Connection Offer Application Fees (excluding VAT)			
MIC & MEC Capacity Ranges	A	B	C
	Demand Capacity (MIC)	Generation Capacity (MEC)	Shallow Works (If required)
≤ 4 MW	€12,491	€14,283	€19,621
> 4 MW ≤ 20 MW	€21,597	€33,121	€34,560
> 20 MW ≤ 100 MW	€35,504	€47,573	€39,655
> 100 MW	€48,617	€50,952	€45,054
Demand only: Fee = $A_{MIC} + C_{MIC} - D$			
Generation only: Fee = $B_{MEC} + C_{MEC} - D$			
Demand & Generation: Fee = $A_{MIC} + B_{MEC} + \text{MAX} [C_{MEC}, C_{MIC}] - D$			
Where D is the sum of the credits for pre-feasibility and advanced works studies still relevant. Determination of D will be calculated by EirGrid.			

OTHER CONDITIONS

OTHER CHARGES: A separate schedule of Connection Offer Process application fees applies for Group Processing applicants. That schedule applies to parties that connect to the transmission system. Please see the Group Processing Approach Connection Offer Process application fees on the next page.

¹³ Reference CER/09/099

TARIFF SCHEDULE GPA COP

Group Processing Approach Connection Offer Process Application Fees

CONDITIONS

APPLICABLE TO: *Generation or Autoproducer* (as applicable) Users applying for a connection directly to the *Transmission System* at a *Grid Entry Point* who are being processed as part of a 'Gate' under a Group Processing Approach¹⁴ (GPA).

Any transmission capacity increase request from a GPA applicant shall be charged as per the GPA COP fees.

CHARGES: An initial fee of €7,000 (including VAT) is required to progress an application above 500kW which is netted off the full application fee. The TSO shall only commence an application check when the initial fee is received unless otherwise agreed.

The remaining fee is dependent on the size (capacity) of the applicant's development and whether shallow connection works are involved in facilitating the capacity required. The TSO shall only commence processing a completed application when the remaining fee is received unless otherwise agreed.

GROUP PROCESS APPROACH CONNECTION OFFER PROCESS APPLICATION FEES

Application Fee (excluding VAT)		
MEC	Shallow Works required	No Shallow Works required ¹⁵
0 ≤ 11kW	€0	€0
> 11kW ≤ 50kW	€772	€772
> 50 kW ≤ 500kW	€1,576	€1,576
> 500kW ≤ 4MW	€8,947	€8,615
> 4MW ≤ 10MW	€27,602	€23,132
> 10MW ≤ 30MW	€53,463	€33,029
> 30MW ≤ 50MW	€62,302	€37,029
> 50MW ≤ 100MW	€74,719	€39,926
> 100MW	€87,460	€43,391

OTHER CONDITIONS

OTHER CHARGES: A separate schedule of Connection Offer Process application fees applies for those applicants that are not Group Processing applicants. Please see the Connection Offer Process application fees on the previous page.

¹⁴ Reference CER/09/191 and CER/08/260

¹⁵ On initial receipt of an application the fee requested will normally be on the assumption that the shallow works are required. Should no shallow works be required the difference will be refunded.

TARIFF SCHEDULE MODIFICATION FEES
--

Connection Offer and Connection Agreement Modification Fees
--

CONDITIONS

APPLICABLE TO: All users that request a modification to a Connection Offer or Connection Agreement

CHARGES: The table below outlines the fees which are applicable to a given complexity of modification. The System Operators will determine the appropriate level of the modification fee based on the general principles set out in Appendix 2.

Modification Fee (excluding VAT)			
Level	Initial Deposit	Balance of Fee	Total Fee
Level 1	€875	€0	€875
Level 1.5	€875	€4,402	€5,278
Level 2	€875	€8,806	€9,681
Level 2.5	€875	€13,361	€14,236
Level 3	€875	€17,916	€18,791
Level 3.5	€875	€21,617	€22,493
Level 4	€875	€25,319	€26,194

TARIFF TERMS AND CONDITIONS

1 Definitions and Interpretations

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

Act means the Electricity Regulation Act, 1999.

Autoproducer User is a User who:

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

CER means the Commission for Energy Regulation.

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

Connection Date means the date of completion of the proper implementation of the Commissioning Instructions, as defined in the Connection Agreement, in respect of every part of the Customer's Equipment, as defined in the Connection Agreement, to *EirGrid*'s satisfaction.

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

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

Demand User is a person or party who:

- (a) *EirGrid* shall provide service to under Tariff Schedules DTS-T (LEUs), DTS-D1 (LEUs), DTS-D1 (Non-LEUs), DTS-D2 (LEUs) and DTS-D2 (Non-LEUs) 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

DG10 is as defined in the DUoS tariff groups available on ESB Networks website (currently defined as a distribution 110kV maximum demand connection)

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

Entry Point means Connection Point as defined in the Connection Agreement

Exit Point means Connection Point as defined in the Connection Agreement

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

Generation User is a person or party who:

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

Generator Performance Incentive Charge is the charge as defined in the Other System Charges Methodology Statement.

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.

Interconnector: A HVDC electrical transmission system as a means for the bulk transmission of electrical power to or from the Transmission System or Other Transmission System to or from an External Transmission System

kW means kilowatt.

kWh means kilowatt hour.

Large Energy User (LEU) is defined as a *User* in either DUoS tariff group DG7 or DG8 or DG9 or is connected to the 110kV network or is connected directly to the transmission system.

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

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

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

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

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

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

MW means megawatt.

MWh means megawatt hour.

Net Demand Adjustment is as defined in the Trading and Settlement Code.

NIAUR means the Northern Ireland Authority for Utility Regulation.

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

Non-Large Energy User (Non-LEU) is defined as a *User* in DUoS tariff group DG1, DG2, DG3, DG4, DG5, DG5a, DG5b, DG6, DG6a or DG6b.

Other System Charges is the collective term for Trip Charges, Short Notice Declaration Charges and Generator Performance Incentive Charges.

Other System Charges Methodology Statement means such rules and or other terms and conditions in respect of charging for Other System Charges forming a part of the Statement of Charges for use of the transmission system as approved by the *CER*

Pounds sterling means the Currency of the United Kingdom

Regulatory Authorities: means the Northern Ireland Authority for Utility Regulation (NIAUR) in Northern Ireland and the Commission for Energy Regulation (CER) in Ireland and the term "Regulatory Authority" shall be construed accordingly to mean any one of them as the context admits or requires.

SEM means the Single Electricity Market which is the wholesale all island single electricity market.

Settlement Period is a 30 minute period beginning on each hour (XX:00:00) and each half hour (XX:30:00). There are 48 Settlement Periods in a calendar day. Where daylight savings time has been enacted the day's Settlement Periods shall be reduced to 46 to account for one less hour in the day. Where standard time has been restored the day's Settlement Periods shall be increased to 50 to account for one additional hour in the day.

Short Notice Declaration Charge is the charge as defined in the Other System Charges Methodology Statement and is also referred to as the SND Charge.

SONI means the System Operator in Northern Ireland and is the holder of the Transmission System Operator licence granted by NIAUR under the Electricity (Northern Ireland) Order 1992.

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

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

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

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

Transmission System; as defined in the EirGrid Grid Code.

Trip Charge is the charge as defined in the Other System Charges Methodology Statement.

User is as defined in the relevant Use of System Agreement

2 Metering and Charging

Estimation in lieu of actual metering data

EirGrid shall make all reasonable efforts to ensure actual metering data is used to determine Transmission Use of System Charges, however should metering data be unavailable to *EirGrid* or the data provider, estimated data will be used. Recalculation of charges will occur as per Resettlement of Charges described below. 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 Single Electricity Market Operator.

Resettlement of charges

Where metering data is incorrect or where estimates have been used or where standing data provided to *EirGrid* has been found to be incorrect, *EirGrid* will use reasonable endeavours to re-bill this account with actual data in the month proceeding the bill month. Where an account is metered by the ESB Distribution System Operator and updated meter or standing data has been provided to *EirGrid* by MRSO, *EirGrid* will carry out resettlement in respect of the account affected by Month + 13 Months pursuant to the Trading and Settlement Code.

The *EirGrid* also may charge a Demand User for Transmission Use of System Charges calculated by reference to electricity discovered or reasonably and properly assessed to have been consumed by a Customer while a Customer of the Demand User but not recorded at the time of consumption for whatever reason.

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 (LEUs), DTS-D1 (LEUs) and DTS-D1 (Non-LEUs) will be prorated based on the number of effective days in the *Charging Period* where:

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

Changes to Maximum Import Capacity

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

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

Proration of the Generation Network Capacity Charge Rate

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

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

Changes to Maximum Export Capacity

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

SCHEDULE 1 - GENERATION LOCATION BASED CHARGES

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Ireland Transmission Connected Non-Wind						
Aghada Longpoint /	Aghada	AD1, AT1, AT2, AT4, AD2	959	959	€6.0959	€507.9917
Ardnacrusha	Ardnacrusha	AA1, AA2, AA3, AA4	86	86	€6.3019	€525.1583
Seal Rock	Aughinish	SK3, SK4	130	130	€5.9344	€494.5333
Irishtown	Dublin Bay Power	DB1	415	415	€5.1249	€427.0750
Cushaling	Edenderry Power	ED1	121.5	121.5	€6.0244	€502.0333
Cushaling	Edenderry Peaker	ED3, ED5	116	116	€6.0242	€502.0167
Cathleen's Fall	Erne	ER3, ER4	45	45	€9.8091	€817.4250
Cliff	Erne	ER1, ER2	20	20	€9.8091	€817.4250
Glanagow	Whitegen	WG1	445	445	€5.9935	€499.4583
Great Island 220kV	Great Island	GI4	431	431	€4.8326	€402.7167
Huntstown	Huntstown 1	HNC	352	352	€5.2820	€440.1667
Corduff	Huntstown 2	HN2	412	412	€5.2930	€441.0833
Lanesboro	Lough Ree Power	LR4	94	94	€5.2250	€435.4167
Carrigadrohid	Lee	LE3	8	8	€6.6856	€557.1333

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Inniscarra	Lee	LE1, LE2	19	19	€6.5199	€543.3250
Pollaphuca	Liffey	LI1, LI2, LI3, LI4	34.18	34.18	€4.7590	€396.5833
Marina	Marina	MRT	85	85	€6.9611	€580.0917
Moneypoint	Moneypoint	MP1, MP2, MP3	862.5	862.5	€6.8555	€571.2917
Northwall 220kV	Northwall	NW4, NW5	109	109	€5.2744	€439.5333
Shellybanks	Poolbeg	PBA, PBB	460	460	€5.2723	€439.3583
Derryiron	Rhode	RH1, RH2	103.6	103.6	€4.9911	€415.9250
Tarbert 110kV	Tarbert	TB1, TB2	108	108	€6.1603	€513.3583
Tarbert 220kV	Tarbert	TB3, TB4	481.4	481.4	€6.1608	€513.4000
Turlough Hill	Turlough Hill	TH1, TH2, TH3, TH4	292	292	€5.2792	€439.9333
Tynagh	Tynagh	TYC	404	404	€6.2524	€521.0333
Shannonbridge	West Offaly Power	WO4	141	141	€5.5425	€461.8750
Ireland Transmission Connected Wind						
Station	Name					
Athea	Athea		34.35	34.35	€8.4097	€700.8083
Ballywater	Ballywater		42	42	€4.0806	€340.0500

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Boggeragh	Boggeragh		57	57	€9.0950	€757.9167
Boggeragh	Boggeragh 2		65.7	65.7	€9.0950	€757.9167
Booltiagh	Booltiagh		31.45	31.45	€7.3546	€612.8833
Castledockrell	Castledockrell		41.4	41.4	€5.3543	€446.1917
Clahane	Clahane		37.8	37.8	€8.4760	€706.3333
Clahane	Clahane 2		13.8	13.8	€8.4760	€706.3333
Cloghboola	Cloghboola 1		46	46	€6.6861	€557.1750
Coomagearlahy	Coomagearlahy		81	81	€10.4182	€868.1833
Cordal	Cordal		84	84	€7.3580	€613.1667
Cunghill	Kingsmountain		34.8	34.8	€8.2284	€685.7000
Derrybrien	Derrybrien		59.5	59.5	€6.1700	€514.1667
Dromada	Dromada		28.5	28.5	€8.4097	€700.8083
Garrow	Coomacheo		59.225	59.225	€10.4179	€868.1583
Garvagh	Garvagh		48	48	€7.5676	€630.6333
Glanlee	Glanlee		29.8	29.8	€10.4183	€868.1917
Golagh	Golagh		15	15	€11.5917	€965.9750
Kill Hill	Kill Hill		36	36	€7.0265	€585.5417
Lisheen	Lisheen		59	59	€7.7343	€644.5250
Meentycat	Meentycat		84.96	84.96	€13.8463	€1,153.8583

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Moneypoint	Moneypoint WF		21.9	21.9	€6.6355	€552.9583
Mount Lucas	Mount Lucas		79.2	79.2	€4.9120	€409.3333
Mulreavy	Mulreavy		95.25	95.25	€11.5768	€964.7333
Ratrussan	Mountain Lodge		30.62	30.62	€4.0806	€340.0500
Ratrussan	Ratrussan		48	48	€4.0806	€340.0500
Sliabh Bawn	Sliabh Bawn		58	58	€5.2770	€439.7500
Slievecallan	Keelderry		26.875	26.875	€6.7886	€565.7167
Slievecallan	Loughaun North		26.875	26.875	€6.7886	€565.7167
Uggool	Seecon		105	105	€5.2385	€436.5417
Uggool	Ugool		64	64	€5.2385	€436.5417
Woodhouse	Woodhouse		20	20	€5.5236	€460.3000
Ireland Distribution Connected						
Ardnacrusha	Knockastanna		7.5	2.5	€6.3020	€525.1667
Arklow	Arklow Bank		25.2	20.2	€4.4766	€373.0500
Arklow	Ballycumber		18	13	€4.4766	€373.0500
Arklow	Raheenleagh		36.5	31.5	€4.4766	€373.0500
Ballylickey	Kealkil		8.5	3.5	€5.5619	€463.4917
Ballylickey	Glanta Commons		39.45	34.45	€5.5619	€463.4917
Bandon	Derreenacrinnig West		5.82	0.82	€5.6457	€470.4750

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Barrymore	Barranafaddock		32.4	27.4	€6.2758	€522.9833
Barrymore	Dairygold Mitchelstown		8.55	3.55	€6.2758	€522.9833
Bellacorick	AMETS Belmullet		10	5	€7.6024	€633.5333
Bellacorick	Bellacorick 1		6.45	1.45	€7.6024	€633.5333
Binbane	Corkermore		9.99	4.99	€8.3751	€697.9250
Binbane	Killin Hill		6	1	€8.3751	€697.9250
Binbane	Loughderryduff		7.65	2.65	€8.3751	€697.9250
Binbane	Meenachullalan		11.9	6.9	€8.3751	€697.9250
Boggeragh	Carrigcannon		20	15	€9.0950	€757.9167
Carlow	Gortahile		21	16	€4.7589	€396.5750
Castlebar	Raheen Barr 2		8.5	3.5	€6.3012	€525.1000
Castlebar	Raheen Barr 1		18.7	13.7	€6.3012	€525.1000
Cathaleen's Fall	Spaddan		17.5	12.5	€9.8101	€817.5083
Cauteen	Cappagh White 1		13.18	8.18	€7.0024	€583.5333
Cauteen	Cappagh White 2 & 3 & 4		49.08	44.08	€7.0024	€583.5333
Cauteen	Garracummer		37.9	32.9	€7.0024	€583.5333
Cauteen	Glencarbry		33	28	€7.0024	€583.5333
Cauteen	Glenough		33	28	€7.0024	€583.5333
Cauteen	Holyford		9	4	€7.0024	€583.5333

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Cloghboola	Dromadda More 1		20	15	€6.6861	€557.1750
Cloghboola	Dromadda More 2		12	7	€6.6861	€557.1750
Cordal	Coolegrean		18.5	13.5	€7.3580	€613.1667
Cordal	Scartaglen		35.45	30.45	€7.3580	€613.1667
Corderry	Altagowlan		7.65	2.65	€7.5673	€630.6083
Corderry	Black Banks 2		6.8	1.8	€7.5673	€630.6083
Corderry	Tullynamoyle		9	4	€7.5673	€630.6083
Corderry	Tullynamoyle 2		10.225	5.225	€7.5673	€630.6083
Corderry	Tullynamoyle 3		11.98	6.98	€7.5673	€630.6083
Crory	Ballycadden		24.212	19.212	€5.3543	€446.1917
Crory	Gibbet Hill		14.8	9.8	€5.3543	€446.1917
Crory	Knocknalour		8.95	3.95	€5.3543	€446.1917
Dalton	Magheramore		40.8	35.8	€4.9720	€414.3333
Drybridge	Meath Waste-Energy		20.5	15.5	€5.2258	€435.4833
Dundalk	Grove Hill		16.1	11.1	€4.7610	€396.7500
Dunmanway	Carbery Milk Products CHP		6	1	€5.5619	€463.4917
Dunmanway	Barrboy		7.8	2.8	€5.5619	€463.4917
Dunmanway	Coomatallin		5.95	0.95	€5.5619	€463.4917

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Dunmanway	Milane Hill		5.94	0.94	€5.5619	€463.4917
Garrow	Caherdowney		10	5	€10.4179	€868.1583
Glenlara	Dromdeeveen		27	22	€5.4318	€452.6500
Glenlara	Taurbeg		26	21	€7.3580	€613.1667
Glenree	Carrowleagh		34.15	29.15	€8.1469	€678.9083
Ikerrin	Monaincha Bog		35.95	30.95	€6.9885	€582.3750
Inchicore	Guinness CHP		8.075	3.08	€5.1310	€427.5833
Kilteel	Arthurstown LFG		9.78	4.78	€5.3516	€445.9667
Knockacummer	Knockacummer		105	100	€7.3580	€613.1667
Knockearagh	Gneeves		9.35	4.35	€9.0875	€757.2917
Knockearagh	WEDCross Wind Farm and Adambridge CHP		7.5	2.5	€9.0875	€757.2917
Knockranny	Knockalough		24	19	€5.4698	€455.8167
Letterkenny	Cark		15	10	€13.7339	€1,144.4917
Letterkenny	Culliagh		11.88	6.88	€13.7339	€1,144.4917
Lisdrum	Bragan		33.1	28.1	€4.2474	€353.9500
Lisheen	Bruckana		39.6	34.6	€7.7343	€644.5250
Macroom	Bawnmore		24	19	€6.6833	€556.9417
Macroom	Garranereagh		8.75	3.75	€6.6833	€556.9417

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Meath Hill	Mullananalt		7.5	2.5	€6.3424	€528.5333
Meath Hill	Raragh 2		11.5	6.5	€6.3424	€528.5333
Meath Hill	Teevurcher		9	4	€6.3424	€528.5333
Meath Hill	Gartnaneane		10.5	5.5	€6.3424	€528.5333
Moy	Lackan		6	1	€8.1062	€675.5167
Oughtragh	Knockaneden		9	4	€9.0901	€757.5083
Portlaoise	Lisdowney		9.2	4.2	€5.1329	€427.7417
Rathkeale	Grouse Lodge		15	10	€5.8502	€487.5167
Rathkeale	Rathcahill		12.5	7.5	€5.8502	€487.5167
Reamore	Knocknagoum		44.35	39.35	€9.0935	€757.7917
Reamore	Muingnaminnane 1,2		28.8	23.8	€9.0935	€757.7917
Ringsend	Dublin Waste to Energy Facility		72	67	€5.1369	€428.0750
Salthill	Leitir Guingaid		40.9	35.9	€5.4698	€455.8167
Sligo	Carrickeeny		7.65	2.65	€7.6930	€641.0833
Sligo	Faughary		6	1	€7.6930	€641.0833
Somerset	Sonnagh Old		7.65	2.65	€5.4629	€455.2417
Sorne Hill	Flughland		9.2	4.2	€13.7364	€1,144.7000
Sorne Hill	Sorne Hill		38.9	33.9	€13.7364	€1,144.7000

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Tawnaghmore	Killala		30	25	€8.3330	€694.4167
Tawnaghmore	Mayo Renewable Power		49	44	€8.7874	€732.2833
Tawnaghmore	Tawnaghmore Peaker		104	99	€8.3322	€694.3500
Thurles	An Cnoc		11.5	6.5	€7.7342	€644.5167
Thurles	Ballybeagh		13.8	8.8	€7.7342	€644.5167
Thurles	Foylatalure		9.6	4.6	€7.7342	€644.5167
Tonroe	Largan Hill		5.94	0.94	€5.4010	€450.0833
Tralee	Ballincollig Hill		15	10	€9.0935	€757.7917
Tralee	Mount Eagle 1		5.1	0.1	€9.0935	€757.7917
Tralee	Tursillagh 1		15	10	€9.0935	€757.7917
Tralee	Tursillagh 2		6.8	1.8	€9.0935	€757.7917
Trien	Tournafulla 1		7.5	2.5	€8.0476	€670.6333
Trien_wind	Knockawarriga 1		22.5	17.5	€8.7878	€732.3167
Trien_wind	Tournafulla 2		17.2	12.2	€8.7878	€732.3167
Trillick	Beam Hill 1		14	9	€13.7361	€1,144.6750
Trillick	Drumlough Hill 2		9.99	4.99	€13.7361	€1,144.6750
Trillick	Meenaward		6.9	1.9	€13.7361	€1,144.6750
Tullabrack	Moanmore		12.6	7.6	€6.8167	€568.0583
Tullabrack	Tullabrack		13.8	8.8	€6.8167	€568.0583

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Equivalent €/kW/year	Network Capacity Charge Rate €/MW/month
Waterford	Ballymartin		14.28	9.28	€4.0806	€340.0500
Wexford	Richfield		27	22	€4.0806	€340.0500
Wexford	Carnsore		11.9	6.9	€4.0806	€340.0500

Schedule 1 provides TUoS tariffs for existing generators connected to the transmission system and generators connected to the distribution system which have contracted Maximum Export Capacities above 5MW. Schedule 1 also provides TUoS tariffs for new generators expected to connect to the transmission or distribution system in the 2016/2017 tariff period. If any new generators connect to the system that are not listed above, tariffs for such generators will be published at a later date following approval by the CER.

SCHEDULE 2 – OTHER SYSTEM CHARGES

The following tables set out the charge rates and parameters for Other System Charges from the 1st October 2016¹⁶. The charge rates and parameters should be considered along with the Other System Charges Methodology Statement.

Table A – Trip & Short Notice Declaration Charge Parameters & Rates

Trip	
Direct Trip Rate of MW Loss	15 MW/s
Fast Wind Down Rate of MW Loss	3 MW/s
Slow Wind Down Rate of MW Loss	1 MW/s
Direct Trip Charge Rate	€ 4,250
Fast Wind Down Charge Rate	€ 3,187
Slow Wind Down Charge Rate	€ 2,125
Direct Trip Constant	0.01
Fast Wind Down Constant	0.009
Slow Wind Down Constant	0.008
Trip MW Loss Threshold	100 MW
Short Notice Declarations	
SND Time Minimum	5 min
SND Time Medium	20 min
SND Time Zero	480 min
SND Powering Factor	-0.3
SND Charge Rate	€74 / MW
SND Threshold	15 MW
Time Window for Chargeable SNDs	60 min

¹⁶ <http://www.eirgridgroup.com/site-files/library/EirGrid/OSC-16-17-Recommendations-Paper.pdf>
<https://www.semcommittee.com/news-centre/publication-osc-decision-paper-2016-17>

Table B – Generator Performance Incentive Charge Parameters & Rates

Generator Performance Incentive Charge Parameters & Rates	
Declaration Based Charges & Constants	
Minimum Generation	€1.25/MWh
Max Starts in 24 hour period	€1.06/MWh
Minimum On Time	€1.06/MWh
Reactive Power Leading	€0.31/MWh
Reactive Power Lagging	€0.31/MWh
Governor Droop	€0.31/MWh
Primary Operating Reserve	€0.13/MWh
Secondary Operating Reserve	€0.13/MWh
Tertiary Operating Reserve 1	€0.13/MWh
Tertiary Operating Reserve 2	€0.13/MWh
Late Declaration Notice Time	480 min
Event Based Charges & Constants	
Loading Rate	€0.63/MWh
Loading Rate Factor 1	60 min
Loading Rate Factor 2	24
Loading Rate Tolerance	110%
De-Loading Rate	€0.63/MWh
De-Loading Rate Factor 1	60 min
De-Loading Rate Factor 2	24
De-Loading Rate Tolerance	110%
Early Synchronisation	€2.82/MWh
Early Synchronous Tolerance	15 min
Early Synchronous Factor	60 min
Late Synchronisation	€28.12/MWh
Late Synchronous Tolerance	5 min
Late Synchronous Factor	55 min

Table C – Rate of Change of Frequency (ROCOF) Generator Performance Incentive Daily Rates¹⁷

Registered capacity	Period		
	01/06/16 - 30/11/16	01/12/16 - 31/05/17	01/06/17 - 30/11/17
≥ 400MW	€687.50	€1,375.00	€2,062.50
≥ 300MW	€515.63	€1,031.25	€1,546.88
≥ 200MW	€343.75	€687.50	€1,031.25
≥ 100MW	€171.88	€343.75	€515.63
≥ 50MW	€103.13	€206.25	€309.38
< 50MW	€34.38	€68.75	€103.13

¹⁷ <http://www.cer.ie/docs/000260/CER14081%20ROCOF%20Decision%20Paper%20-%20FINAL%20FOR%20PUBLICATION.pdf>

APPENDIX 1: DISTRIBUTION LOSS FACTORS

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

Table 1 below outlines the distribution loss factors which shall apply to users on tariff schedules DTS-D1 (LEUs), DTS-D1 (Non-LEUs), DTS-D2 (LEUs) and DTS-D2 (Non-LEUs) during day and night hours.

Table 1: Distribution Loss Factors					
	Time	Voltage level at which the user is connected			
		110kV or higher	38kV	MV	LV
2016/2017 Distribution Loss Adjustment Factors	Day	1.000	1.021	1.037	1.090
	Night	1.000	1.017	1.030	1.072

Tables 2 and 3 below outline the tariffs which shall apply to users on tariff schedules DTS-D1 (LEUs), DTS-D1 (Non-LEUs), DTS-D2 (LEUs) and DTS-D2 (Non-LEUs) during day and night hours, taking into account the relevant distribution loss factor. The charges have been calculated by multiplying the relevant tariffs, which are charged based on *Metered Consumption Energy*, by the appropriate distribution loss factor. Distribution users will be charged the tariffs below for each MWh of energy consumed. Users on tariff schedules DTS-D1 (LEUs) or DTS-D1 (Non-LEUs) will also pay the Network Capacity Charge as outlined in the DTS-D1 (LEUs) or DTS-D1 (Non-LEUs) schedules.

Table 2: Tariffs for Large Energy Users on Schedules DTS - D1 & DTS - D2 with Distribution Loss Factors applied				
	Time	Voltage level at which the user is connected		
		110kV or higher	38kV	MV
2016/2017 Distribution Loss Adjustment Factors	Day	1.000	1.021	1.037
	Night	1.000	1.017	1.030
Network Transfer Charge (€/MWh)	Day	2.1114	2.1557	2.1895
	Night	2.1114	2.1473	2.1747
System Services Charge (€/MWh)	Day	2.8210	2.8802	2.9254
	Night	2.8210	2.8690	2.9056
Network Capacity Charge (€/MWh)*	Day	4.4440	4.5373	4.6084
Demand Side Management Charge (€/MWh)	Day	0.0003	0.0003	0.0003

* €/MWh Network Capacity Charge is only applicable to DTS-D2 customers

Table 3: Tariffs for non Large Energy Users on Schedules DTS - D1 & DTS - D2 with Distribution Loss Factors applied		
		Voltage level at which the user is connected
	Time	LV
2016/2017 Distribution Loss Adjustment Factors	Day	1.09
	Night	1.072
Network Transfer Charge (€/MWh)	Day	3.1199
	Night	3.0684
System Services Charge (€/MWh)	Day	4.1684
	Night	4.0995
Network Capacity Charge (€/MWh)*	Day	6.5668
Demand Side Management Charge (€/MWh)	Day	0.0003
* €/MWh Network Capacity Charge is only applicable to DTS-D2 customers		

APPENDIX 2: TYPES OF MODIFICATIONS AND ASSOCIATED LEVELS

For more information on the rules related to processing modification requests please see CER documents on [Modification Fees for Connection Offers, March 2013](#).

Table 4 – General table of chargeable modifications¹⁸

Basic Type	Types of Modifications	Level	Main Driver
Name Change	Applicant Name Change/Change of Legal Entity	1	Commercial
Application Data for applicant in queue – second and subsequent changes	Where an application has been submitted, the first such change will be processed at no charge and a level 1 will apply thereafter.	1	Commercial
Firm or non-firm	Change in choice of a firm or non-firm/firm offer where no shared shallow works	1	Commercial
	Change in choice of a firm or non-firm/firm offer where shared shallow works	2.5	Construction and Commercial
Longstop Dates	Change to longstop dates where allowed	1.5	Technical and Commercial
Metering	Change to metering arrangements	1.5	Construction and Commercial
Merger	Merging projects with no significant expected change to works, charges or bonding arrangements (note 1)	1.5	Commercial
	Merging projects with no significant expected change to shallow works (note 1)	2.5	Tech Studies
	Merging projects with significant expected change to shallow works	4	All
Splitting	Splitting projects with no significant expected change to works, charges or bonding arrangements (note 1)	1.5	Commercial
	Splitting projects with no significant expected change to shallow works but impact on charges or bonding (note 1)	2	Tech Studies
	Splitting projects with significant expected change to shallow works (note 1)	4	All
Relocation	Capacity Relocation with no significant expected change to shallow works (note 1). This includes where a customer relocates capacity behind the connection point.	1.5	Tech Studies
	Capacity Relocation which only reduces the connecting circuit length	2	All
	Capacity Relocation with significant expected change to shallow works	4	All
MEC Change	Decrease in MEC with no significant expected change to shallow works (note 1)	1.5	Commercial

¹⁸ Table 5 covers changes to specific data in particular

Basic Type	Types of Modifications	Level	Main Driver
	Decrease in MEC with significant expected change to shallow works	4	All
	Increase in MEC	Per new application fees ¹⁹	All
MIC Change	Decrease in MIC with no significant expected change to shallow works (note 1)	1 ²⁰	Commercial
	Increase in MIC where no studies required - typically for a generator seeking a MIC increase less than 4MW and where MEC is greater than twice the MIC	1.5	All
	Decrease in MIC with significant expected change to shallow works	4	Commercial
	Increase in MIC where studies required	Per new application fees ¹²	All
Change to overhead or underground cable (See note 3 below)	Change from overhead line to underground cable or vice versa for connection method with no significant expected additional change to shallow works (note 1)	1.5	Tech Studies
	Change from overhead line to underground cable or vice versa for connection method with significant potential additional change to shallow works	4	All
Phasing	Phasing legacy projects (no impact on connection works timeline)	1.5	Commercial
	Phasing Projects as per COPP ruleset	2	Construction and Commercial
Extension to term of contract	Extension to term of contract with no significant expected change to shallow or deep Transmission works (note 2)	1.5	Commercial
	Extension to term of contract with expected change to deep Transmission works but no expected significant changes to shallow works	3	Technical and Commercial
	Extension to term of contract with significant expected change to shallow works	4	All
	Extension to term of contract with expected significant change to shallow and deep Transmission works	Per new application fees ¹²	All
Contestability	Change to contestability decision where allowed	2	Construction and Commercial
RTUs	Change in number of RTU devices	2	Construction and Commercial

¹⁹ See fees for applications in Tariff Schedules COP, GPA COP and Modification Fees of this Statement or refer to www.esb.ie/esbnetworks for ESB policy

²⁰ There will be no charge if part of first change to specific or assumed data – whichever the original offer was based on.

Basic Type	Types of Modifications	Level	Main Driver
Overhaul/refurbishing a generator	Changes made to a connected generator due to overhaul or refurbishing	2.5	All
Change to technology type	Change to technology type where assessment does not require additional studies ²¹	1.5	Commercial
	Change to technology type where assessment requires additional studies	2.5	Commercial and Technical
	Change to technology type where assessment requires additional studies and likely to require significant changes to shallow works	4	All
Temporary Connection	Temporary Connections	4	All

Notes on Table 4 above

1. 'Significant expected change' means where the System Operators believe that the modification requested has a material impact on the connection method that was originally offered to the customer (beyond the specific change requested) and therefore is likely to affect the connection charge. Assets chargeable to the customer are as set out in the Quotation letter (DSO customers) or Offer Letter (TSO customers). Any changes to these assets would be considered significant. Primary examples of this would be where one or more of the following is likely to be changed:

Shallow Works (TSO & DSO)
Number or size of connecting stations
Number of circuits and associated terminations
Number of couplers in a connecting station
Length, type or rating of the circuit(s)
Number or rating of transformers
Number or rating of bays
Increased busbar rating
The modification requested causes changes to the asset sharing arrangements or other Connection Method changes to another connecting or connected customer
Requirements to introduce bonding arrangements to cover potential stranded assets
Deep reinforcement (DSO)
Changes in circuit reinforcement requirements
Changes in station reinforcement requirements
Changes in protection requirements

²¹ Please note where the change is submitted as part of a change to specific data, and the change to specific data is chargeable, then there will be no additional charge for this modification

These types of changes impact on the works, costs, lead times and legal assumptions contained in the original connection offer and therefore require significant reassessment by the SOs across the technical, commercial and construction related drivers.

- 2 For the avoidance of doubt, all references to shallow works in table 4 should be taken to also include deep distribution works

Changes to Applicant Specific Data – Second and Subsequent submissions. Initial submission processed free of charge (Table 5 below)

Table 5 – Changes to Applicant Specific Data

Basic Type	Types of Modifications	Level	Main Driver
House Load	Change to house load	1	Commercial
Reactive Power Devices	Change to reactive power compensation devices	2	Tech Studies
Change to generation turbine/unit(s)	Change to generation turbine/unit ²² with no significant expected change to shallow works	2.5	Tech Studies
	Change to number of generating turbines/units with no significant expected change to shallow works	2.5	Tech Studies
	Change to generation turbine/unit ²³ with significant expected change to shallow works	4	All
	Change to number of generating turbines/units with significant expected change to shallow works	4	All
Transformer Changes	Change to grid connecting transformer(s) specifications	2.5	Tech Studies
	Change to number of grid connecting transformers	3.5	All

²² Including wind turbine changes etc.

²³ Including wind turbine changes etc.