



Commission for Energy Regulation

An Coimisiún um Rialáil Fuinnimh

**PASS THROUGH COSTS FOR BUSINESS CUSTOMERS
FROM 1ST OCTOBER 2011**

Information Note

CER/11/202

21st November 2011

INTRODUCTION

This document is a detailed addendum to the information fact sheet for business customers - *Electricity Buyers Guide for the Deregulated Market* and provides an update to the information note on pass through costs that applied from the 1st October 2010¹. The purpose is to provide business customers² with a brief overview of the cost components involved in electricity prices as well as a description of pass through costs. It is hoped that this document can be used by business customers when assessing electricity prices or contracts offered. The CER will endeavour to publish this document in advance of the 1st October in the future, to provide the greatest benefit to business customers.

This note also contains sheets showing the details of the latest pass through costs to come into effect from 1st October 2011 for each customer category which should be of particular interest to business customers.

The CER welcomes any comments on the format and content of this information note.

BACKGROUND

There are a number of regulated pass through cost elements which feed in to the final price for electricity. In previous years the regulated tariffs offered by Electric Ireland (formerly ESB Customer Supply) as the Public Electricity Supplier (PES), incorporated these elements and passed them straight through to business customers.

On the 21st April 2010 the Commission for Energy Regulation ('The CER) published its decision paper on the roadmap for deregulation of the Electricity Retail Market³, which set out the market criteria for deregulation and all business markets met those criteria and were deemed to be competitive and were therefore deregulate from 1st October 2010. As a result of this the CER no longer regulate the tariffs offered by Electric Ireland to business customers. The CER will continue to monitor the deregulated business market closely, to ensure that competition is developing and delivering benefits to customers.

Since the 1st October 2010 all suppliers operating in business markets, including Electric Ireland, have been able to compete freely and offer tariffs based on their own commercial approach. Without regulated tariffs to act as a benchmark, there is an increased need for business customers to understand what the cost drivers of electricity prices are and how they are likely to change over time.

There are many components of the electricity tariffs charged by suppliers. At a high level, the price of electricity in a customer's bill is made up of the cost of four key components;

- The cost of electricity **Generation** which is the most important factor determining price and currently accounts for well over half of customers final bill.
- The **Public Service Obligation (PSO)** Levy is a Government initiative designed to support electricity generation plant to meet national policy objectives of security of

¹ Pass Through costs for Business customers from 1st October 2010 (CER/10/141)

² For the purpose of this note business customer refers to all customers with a DG3, DG5, DG6, DG7, DG8, DG9 or DG10 connection, as well as Transmission connected customers.

³ Roadmap for Deregulation of the Electricity Retail Market – CER/10/058

energy supply, the use of indigenous fuels (i.e. peat) and of the use renewable energy sources in electricity generation.

- The cost of **Networks**, which involves sending the electricity from the generation plants through the Transmission and Distribution wires to customers' premises. This also accounts for a very significant portion of the final price of electricity for customers.
- The **Retail** activity involved in supplying electricity that includes the cost of procuring energy and customer accounting.

PASS THROUGH COSTS

There are a number of pass through costs that are regulated and set on an annual basis. These pass through costs fall under two distinct headings:

- Mandatory pass through costs
- Other pass through costs

The mandatory pass through costs includes taxes and the PSO charge, and suppliers have no discretion when applying these costs to their customer's bills. For all other pass through costs it is a commercial decision of a supplier whether or not to pass them on to their customers, subject to terms of the contract in place with the individual customer.

Most of these costs are amended on the 1st October each year and these changes are generally passed on to customers by their supplier. Therefore it is important for customers to understand these components and to know when changes will take place. This section examines the pass through costs in each of the key cost components listed above.

Pass Through Costs - Generation

Market Operator Charges

- Published Annually
- New charges come into effect on 1st October

The Single Electricity Market (SEM) is the all-island wholesale electricity market which commenced operation on 1 November 2007 and is administered by the Single Electricity Market Operator (SEMO). SEMO impose a Market Operator charge to recover the costs of administering the SEM to all electricity users on a cent per kilowatt hour (c/kWh) basis. A decision paper⁴ was published by the SEM Committee (SEMC) on the All Island Project (AIP) website (www.allislandproject.org) on 5th August 2010, setting out the revenues and tariffs from October 2010 to September 2013. The approved charges for the 2011/12 period and can be found on the SEMO website⁵.

Imperfection Charges

⁴ SEMO Revenue and Tariffs October 2010 - September 2013 SEM-10-082

⁵ SEMO Tariffs and Imperfections Costs for October 2011 – September 2012 – (August 24th 2011)

- Published Annually
- New charges come into effect on 1st October

Further to the Market Operator charges SEMO also recover costs on an annual basis in relation to Imperfection charges. Imperfections are made up of Make Whole Payments, Energy Imbalance Charges and Dispatch Balancing Costs (which are primarily made up of Constraint Costs), all of which are costs relating to the operation of the grid. The decision paper⁶ setting out the costs and final Imperfection charges for the 2011/12 period was published by SEMC on the AIP website on 5th August.

Capacity Payments

- Published Annually
- New charges come into effect on 1st January

The capacity payment mechanism provides a source of revenue for generators providing generation capacity in the SEM. Its function is to provide a degree of financial certainty to generators and to incentivise investment in sufficient generation plant to meet current and future electricity demand.

The capacity pot is set for a calendar year and it is recovered via capacity charges levied on each supplier according to their demand. Unlike other pass through costs capacity payments are not at a set level which a supplier or customer can forecast precisely, but instead fluctuate in each month depending on the generation capacity available and demand in that period. In order for a customer to estimate what their capacity costs may be, it is reasonable to divide the total annual pot by the forecast demand for the year and use the resulting €/MWh as a proxy for estimating the cost. The table below shows the annual capacity pot for 2011 and 2012 divided by the forecast demand⁷ in order to give an indicative cost in Euros per megawatt hour⁸.

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|-------------------|--------------|------------------|-------------------------|
| 2011 ⁹ | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

A decision paper¹⁰ outlining the final figures for the Annual Capacity Payment Sum for 2012 was published on the 2nd August.

Pass Through Costs - PSO

- Published Annually

⁶ Imperfections Charges For October 2011 – September 2012 SEM-11-060

⁷ The demand figures are based on the forecasts included in “RAs Validated Forecast Model and PLEXOS Validation Report 2011” (www.allislandproject.org), less embedded generation of 3% and TLAf’s of 2%.

⁸ This cost per MWh is an indicative cost and a customer’s actual capacity payments may be higher or lower.

⁹ Fixed Cost of a Best New Entrant Peaking Plant, Capacity Requirement & Annual Capacity Payment Sum for the Calendar Year 2011– SEM-10-053

¹⁰ Fixed Cost of a Best New Entrant Peaking Plant, Capacity Requirement & Annual Capacity Payment Sum for the Calendar Year 2012– SEM-11-059

- Levy comes into effect on 1st October

The PSO levy is designed by Government to support the national policy objectives of security of energy supply, the use of indigenous fuels (i.e. peat) and of the use renewable energy sources in electricity generation, as set out in legislation. The levy is designed to recoup the additional costs incurred in meeting these obligations. The levy, which has been in place since 2003, applies to all consumers of electricity regardless of supplier, and appears as a separate item on a customer's electricity bill.

The CER calculates and certifies the costs associated with the PSO levy and publishes a consultation paper regarding the PSO levy each summer, followed by the relevant decision. The decision¹¹ paper setting out the PSO levy for 2011/12 was published on the 29th July.

Pass Through Costs - Networks

- Published Annually
- New charges come into effect on 1st October

There are two elements to networks costs – Distribution Use of System (DUoS) and Transmission Use of System (TUoS) charges. The decision paper is published at least four weeks before the new charges come into effect and the papers setting out the DUoS¹² and TUoS¹³ charges for the 2011/12 tariff period were published in July and August respectively.

Pass Through Costs - Retail

There are no pass through costs under this cost component

Pass Through Costs – Electricity Tax

In accordance with the EU Energy Tax Directive¹⁴, Chapter 1 of Part 2 of the Finance Act 2008 provides for an excise duty, called electricity tax, on supplies of electricity made on or after 1st October 2008. Suppliers are responsible for payment of the tax, and for all returns and accounts in relation to it, but this cost is passed on to final customers. The result is that all business customers must pay the electricity tax at a rate of €0.50 per unit¹⁵ (megawatt hour).

¹¹ Decision Paper on the Public Service Obligation (PSO) Levy 2011/12 – CER/11/130

¹² Approved DUoS Tariffs for 1st October 2011 to 30th Sept 2012 - CER/11/126a

¹³ 2012 TSO and TAO Revenue (Appendix A) – CER/11/167

¹⁴ Directive 2003/96/EC restructuring the Community framework for the taxation of energy products & electricity

¹⁵ A rate of €1 per unit applies for electricity supplied for non-business use.

NOTE

Details of Distribution Loss Adjustment Factors

All generation charges, are levied at the trading point¹⁶, however the electricity must be transported from the trading point to the customers metering point. During this transportation, losses occur and a Distribution Loss Adjustment Factor (DLAF¹⁷) is applied to customers' metered energy consumption to account for these losses. In other words, the energy consumption measured at a customer's meter is multiplied by the DLAF to get the consumption at which generation charges are applied.

TUoS charges are also levied on the supplier at the trading point, so to account for losses in transportation of the electricity on the distribution network, a DLAF is applied to the metered energy consumption.

The CER publishes standard DLAF's¹⁸ each year with different DLAF's applying depending on the size of a customer's connection and the time of consumption.

| Voltage Level | Time Period | | |
|---------------|-------------|-------|-------|
| | Composite | Day | Night |
| 38kV Sales | 1.017 | 1.018 | 1.014 |
| MV Sales | 1.038 | 1.040 | 1.032 |
| LV Sales | 1.084 | 1.089 | 1.072 |
| Aggregate | 1.072 | 1.076 | 1.061 |

DLAF's in place from 1st October 2011 to 30th September 2012

¹⁶ The trading point is the notional point where electricity is traded for the purposes of settlement, taken to be the boundary between the transmission and distribution systems.

¹⁷ Losses are incurred in the distribution of electricity from the trading point to end user sites. DLAF's are the means by which distribution losses are apportioned to end users in the settlement process.

¹⁸ Decision on 2011-2012 DSO Distribution Loss Adjustment Factors - CER/11/126d

APPENDIX

The following section provides information on pass through costs for each customer class. These are set out in the table below and business customers should be able to identify which set of pass through costs applies to their account.

| | | |
|---|-----------------|---|
| Public Lighting | DG 3 | Public Lighting |
| Small and Medium Enterprises | DG 5 | General Purpose Low Voltage NON Max Demand |
| | DG 6 | Low Load Factor |
| | | Low Voltage Max Demand |
| Large Energy Users | DG 7 | Medium Voltage Max Demand |
| | DG 8 + 9 | 38KV Max Demand |
| | DG 10 | 110KV Max Demand |
| | T-Conn | Transmission Connected |

More details on any of the pass through costs can be found in the individual decision papers listed throughout this document. Alternatively further information on the wholesale and retail electricity markets can be found on the CER or All Island websites listed below.

- The Commission for Energy Regulation – www.cer.ie
- The All Island Project - www.allislandproject.org

DUoS Group 3 - Public Lighting Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st Oct for Public Lighting customers is €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge (Non-LEUs) | Note |
|----------|-------------------------|-------------------|---|
| DTS-D2* | Network Capacity Charge | €4.3542/MWh | <i>only charged for daytime consumption</i> |
| | Network Transfer Charge | €2.0646/MWh | <i>charged for all consumption</i> |
| | System Services Charge | €2.9391/MWh | <i>charged for all consumption</i> |
| | DSM Charge | €0.4153/MWh | <i>only charged for daytime consumption</i> |

*DTS-D2 customers are those connected to the distribution system and have a maximum import capacity (MIC) of less than 0.5MWs.

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 3 (DG3)

Unmetered Public Lighting and Unmetered Connections Charge Unit c Unit Rates

| | Charge Unit | c |
|------------|-------------|-------|
| Unit Rates | Per kWh | 2.824 |

DUoS Group 4 – Local Authority Public Lighting Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st Oct for Public Lighting customers is €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge (Non-LEUs) | Note |
|----------|-------------------------|-------------------|---|
| DTS-D2* | Network Capacity Charge | €4.3542/MWh | <i>only charged for daytime consumption</i> |
| | Network Transfer Charge | €2.0646/MWh | <i>charged for all consumption</i> |
| | System Services Charge | €2.9391/MWh | <i>charged for all consumption</i> |
| | DSM Charge | €0.4153/MWh | <i>only charged for daytime consumption</i> |

*DTS-D2 customers are those connected to the distribution system and have a maximum import capacity (MIC) of less than 0.5MWs.

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 4 (DG4)

Unmetered Public Lighting and Unmetered Connections Charge Unit c Unit Rates

| | Charge Unit | c |
|--------------------|-------------|-------|
| Unit Rates | Per kWh | 2.824 |
| DG4 Premium | Per kWh | 1.36 |

The DG4 premium is a charge for additional costs incurred on behalf of ESB Networks on behalf of local authorities in accordance with an agreement with the City and County Managers Association. This is not a cost approved by the CER but agreed between ESB Networks and City and County Managers Association.

DUoS Group 5 - General Purpose Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st October for the Small & Medium Profile is €4.77 per customer, per month. Any DG5 customers with an MIC equal to or greater than 30kVA fall in to the Large Profile category for PSO purposes and face a PSO Levy of €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge (Non-LEUs) | Note |
|----------|-------------------------|-------------------|---|
| DTS-D2* | Network Capacity Charge | €4.3542/MWh | <i>only charged for daytime consumption</i> |
| | Network Transfer Charge | €2.0646/MWh | <i>charged for all consumption</i> |
| | System Services Charge | €2.9391/MWh | <i>charged for all consumption</i> |
| | DSM Charge | €0.4153/MWh | <i>only charged for daytime consumption</i> |

*DTS-D2 customers are those connected to the distribution system and have a maximum import capacity (MIC) of less than 0.5MWs.

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 5 (DG5) and DUoS Group 5b (DG5b)
Low Voltage Non-Domestic Customers (non Maximum Demand)

| | Charge Unit | Standard Meter | Day & Night Meter |
|-----------------------------------|------------------------|----------------|-------------------|
| | | € | € |
| Standing Charge | Per Customer Per Annum | 80.66 | 80.66 |
| | | c | c |
| | Per kWh 24 Hour | 3.722 | N/A |
| Unit Rates | Per kWh Day | N/A | 4.353 |
| | Per kWh Night | N/A | 0.532 |
| Low Power Factor Surcharge | Per kVAh | 0.863 | 0.863 |

DUoS Group 5a (DG5a)
Low Voltage Autoproducers MEC > MIC (non Maximum Demand)

| | Charge Unit | Standard Meter | Day & Night Meter |
|------------------------|------------------------|----------------|-------------------|
| | | € | € |
| Standing Charge | Per Customer Per Annum | N/A | N/A |
| | | c | c |
| | Per kWh 24 Hour | 3.722 | N/A |
| Unit Rates | Per kWh Day | N/A | 4.353 |

| | | | |
|-----------------------------------|---------------|-------|-------|
| Low Power Factor Surcharge | Per kWh Night | N/A | 0.532 |
| | Per kVArh | 0.863 | 0.863 |

DUoS Group 6 - LVMD & LLF Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st October for the Small & Medium Profile is €4.77 per customer, per month. Any DG6 customers with an MIC equal to or greater than 30kVA fall in to the Large Profile category for PSO purposes and face a PSO Levy of €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

PLEASE NOTE THAT WHILE THE DTS-D2 SCHEDULE APPLIES TO MOST DG6 CUSTOMERS, THERE ARE SOME, LARGE, DG6 CUSTOMERS TO WHOM THE DTS-D1 SCHEDULE APPLIES¹⁹

| Schedule | Charge Type | Charge (Non-LEUs) | Note |
|----------|-------------------------|-------------------|---|
| DTS-D2* | Network Capacity Charge | €4.3542/MWh | <i>only charged for daytime consumption</i> |
| | Network Transfer Charge | €2.0646/MWh | <i>charged for all consumption</i> |
| | System Services Charge | €2.9391/MWh | <i>charged for all consumption</i> |
| | DSM Charge | €0.4153/MWh | <i>only charged for daytime consumption</i> |

*DTS-D2 customers are those connected to the distribution system and have a maximum import capacity (MIC) of less than 0.5MWs.

| Schedule | Charge Type | Charge (Non-LEUs) | Note |
|----------|-------------------------|-------------------|---|
| DTS-D1** | Network Capacity Charge | €1,061.4227/MW | |
| | Network Transfer Charge | €2.0646/MWh | <i>charged for all consumption</i> |
| | System Services Charge | €2.9391/MWh | <i>charged for all consumption</i> |
| | DSM Charge | €0.4153/MWh | <i>only charged for daytime consumption</i> |

**DTS-D1 customers are those connected to the distribution system and have a maximum import capacity (MIC) greater than 0.5MWs.

¹⁹ DG6 customers with a Maximum Import Capacity (MIC) equal to or greater than 0.5MW will be on DTS-D1. All other DG6 customers will be on DTS-D2

DUoS Group 6 - Continued

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 6 (DG6) and DUoS Group 6b (DG6b)
Low Voltage Non-Domestic Customers (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | 752.37 |
| Capacity Charge | Per kVA of MIC per annum | 28.08 |
| | | c |
| Unit Rates | Per kWh Day | 2.215 |
| | Per kWh Night | 0.261 |
| Low Power Factor Surcharge | Per kVArh | 0.789 |

DUoS Group 6a (DG6a)
Low Voltage Autoproducers MEC > MIC (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | N/A |
| Capacity Charge | Per kVA of MIC per annum | N/A |
| | | c |
| Unit Rates | Per kWh Day | 2.215 |
| | Per kWh Night | 0.261 |
| Low Power Factor Surcharge | Per kVArh | 0.789 |

DUoS Group 7- Medium Voltage Max Demand Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st Oct for Large Profile customers is €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge LEUs | Note |
|----------|-------------------------|--------------|---|
| DTS-D1* | Network Capacity Charge | €615.2006/MW | <i>charged for all consumption charged for all consumption only charged for daytime consumption</i> |
| | Network Transfer Charge | €1.1966/MWh | |
| | System Services Charge | €1.7035/MWh | |
| | DSM Charge | €0.4153/MWh | |

*DTS-D1 customers are those connected to the distribution system and have a maximum import capacity (MIC) greater than 0.5MWs.

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 7 (DG7) and DUoS Group 7b (DG7b)
Medium Voltage Customers (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | 1,326.13 |
| Capacity Charge | Per kVA of MIC per annum | 9.70 |
| | | c |
| Unit Rates | Per kWh Day | 0.384 |
| | Per kWh Night | 0.060 |
| Low Power Factor Surcharge | Per kVArh | 0.693 |

DUoS Group 7a (DG7a)

Low Voltage Autoproducers MEC > MIC (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | N/A |
| Capacity Charge | Per kVA of MIC per annum | N/A |
| | | c |
| Unit Rates | Per kWh Day | 0.384 |
| | Per kWh Night | 0.060 |
| Low Power Factor Surcharge | Per kVArh | 0.693 |

DUoS Group 8 - 38KV Max Demand Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st Oct for Large Profile customers is €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge LEUs | Note |
|----------|-------------------------|--------------|---|
| DTS-D1* | Network Capacity Charge | €615.2006/MW | <i>charged for all consumption charged for all consumption only charged for daytime consumption</i> |
| | Network Transfer Charge | €1.1966/MWh | |
| | System Services Charge | €1.7035/MWh | |
| | DSM Charge | €0.4153/MWh | |

*DTS-D1 customers are those connected to the distribution system and have a maximum import capacity (MIC) greater than 0.5MWs.

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 8 (DG8) and DUoS Group 8b (DG8b)
38 kV Looped Customers (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|-----------|
| Standing Charge | Per Customer Per Annum | 22,230.82 |
| Capacity Charge | Per kVA of MIC per annum | 4.78 |
| | | c |
| Unit Rates | Per kWh Day | 0.084 |
| | Per kWh Night | 0.006 |
| Low Power Factor Surcharge | Per kVAh | 0.650 |

DUoS Group 8a (DG8a)

38 kV Looped Autoproducers MEC > MIC (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | N/A |
| Capacity Charge | Per kVA of MIC per annum | N/A |
| | | c |
| Unit Rates | Per kWh Day | 0.084 |
| | Per kWh Night | 0.006 |
| Low Power Factor Surcharge | Per kVAh | 0.650 |

DUoS Group 9 – 38KV Max Demand Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st Oct for Large Profile customers is €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge LEUs | Note |
|----------|--|---|---|
| DTS-D1* | Network Capacity Charge Network Transfer Charge System Services Charge DSM Charge | €615.2006/MW €1.1966/MWh €1.7035/MWh €0.4153/MWh | <i>charged for all consumption charged for all consumption only charged for daytime consumption</i> |

*DTS-D1 customers are those connected to the distribution system and have a maximum import capacity (MIC) greater than 0.5MWs.

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS Group 9 (DG9) and DUoS Group 9b (DG9b)
38kV Tailed Customers (Maximum Demand)

| | Charge Unit | € |
|-----------------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | 6,332.37 |
| Capacity Charge | Per kVA of MIC per annum | 4.78 |
| | | c |
| Unit Rates | Per kWh Day | 0.084 |
| | Per kWh Night | 0.006 |
| Low Power Factor Surcharge | Per kVArh | 0.650 |

DUoS Group 9a (DG9a)

38kV Tailed Autoproducers MEC > MIC (Maximum Demand)

| | Charge Unit | € |
|------------------------|--------------------------|----------|
| Standing Charge | Per Customer Per Annum | N/A |
| Capacity Charge | Per kVA of MIC per annum | N/A |
| | | c |
| Unit Rates | Per kWh Day | 0.084 |
| | Per kWh Night | 0.006 |

| | | |
|-----------------------------------|-----------|-------|
| Low Power Factor Surcharge | Per kVArh | 0.650 |
|-----------------------------------|-----------|-------|

T-Conn – Demand Pass Through Costs

Market Operator & Imperfection Charges from 01/10/11 to 30/09/12

| | |
|------------------------------------|------------|
| SEMO's Imperfection Charge per MWh | €5.442/MWh |
| SEMO's MO Charge per MWh | €0.694/MWh |

Annual Capacity Payment Sum

| Year | Annual Pot | Total Demand GWh | Indicative Cost Per MWh |
|------|--------------|------------------|-------------------------|
| 2011 | €544,956,545 | 34,673 | € 15.72 |
| 2012 | €528,120,120 | 35,361 | € 14.94 |

PSO Levy applicable from 01/10/11 to 30/09/12

The PSO Levy, to apply from 1st Oct for Large Profile customers is €0.71 per kVA, per month.

TUoS Charges applicable from 01/10/11 to 30/09/12

| Schedule | Charge Type | Charge LEUs | Note |
|----------|-------------------------|--------------|------------------------------------|
| DTS-T* | Network Capacity Charge | €734.3218/MW | <i>charged for all consumption</i> |
| | Network Transfer Charge | €1.1966MWh | |
| | System Services Charge | €1.7035/MWh | |
| | DSM Charge | €0.4153/MWh | |

**Applies to customers connected directly to the transmission system.*

DUoS Charges applicable from 01/10/11 to 30/09/12

DUoS charges do not apply for transmission connected customers