



Commercial Pass Through Document

The unit price Panda Power charge you in your electricity supply contract includes both the agreed energy charge per unit and regulated pass-through charges. The Panda Power energy charge will be the agreed fixed price per unit for the agreed duration of the contract. The pass-through costs will only change with regulatory approval from the CRU, (Commission for Regulation of Utilities).

The pass-through charges, charged by ESB networks, Eirgrid and SEMO (Single Electricity Market Operator) have been approved by the CRU for the 2020/2021 period. The impacts of the various charges to your contract are detailed below. The increased PSO levy for 2020/2021 has also been confirmed by the CRU which will lead to an increase in PSO charges for all customers.

The levels of pass through charges applicable to you are dependent on your DUoS group or DG number. All supply points connected to the electricity network have an associated DUoS Group. The DUoS group is assigned by ESB Networks to the premises based on the network connection characteristics and meter configuration. Your DUoS group number can be found on the top right hand corner of the bill. The pass-through charges that are documented on your Panda Power invoice are outlined and explained below:

❖ Distribution Use of Systems (DUoS)

Standing Charge  
Capacity Charge  
Unit Rates Day  
Unit Rates Night  
Low Power Factor Surcharge  
Excess kVA Surcharge

❖ Transmission Use of Systems (TUoS)

Network Capacity Charge  
Network Transfer Charge  
System Service Charge  
Capacity Margin Charge

❖ Single Electricity Market SEMO Tariffs and Imperfections costs

Market Operator Charges;  
Imperfection Charges;  
System Capacity Charges;  
Difference Payment  
Socialisation Multiplier;  
Currency Adjustment  
Charge;  
Residual Error Volume  
Charge;

❖ PSO levy

### ***Distribution Use of System (DUoS) charges***

DUoS tariffs are charged to suppliers based on the amount of energy used by their customers, and include standing charges. The DSO charges are calculated annually based on the 'allowed revenue' (as determined by the CRU). On The 31 July 2020 the CRU, published an Information Paper on the allowed revenue for ESB Networks as DSO, and DUoS tariffs and DLAFs for the 2020/21 tariff year.

	DUoS Standing Charge 2020/21	DUoS Unit rates 2020/21	Low Power Surcharge
DG3	N/A	€0.03742	
DG4		€0.03742	
DUoS Group 5 (DG5) and DUoS Group 5b (DG5b) (Low voltage non-domestic customers, non-max demand.)	Standard Meter: €106.87/ customer/ annum. Day night meter: €106.87 / Customer/ annum.	Standard meter: €0.04932/kWh Day/night meter: Day: €0.05767/kWh Night: €0.00705/kWh	Standard meter: €0.01144kVArh Day/night meter: €0.01144kVArh
DUoS Group 5a (DG5a) Low Voltage Auto producers MEC > MIC (non Maximum Demand)	N/A	Standard meter: €0.04932/kWh Day/night meter: Day: €0.05767/kWh Night: €0.00705/kWh	Standard meter: €0.01144kVArh Day/night meter: €0.01144kVArh
DG 6 and DG 6b (low voltage business customers, max demand)	Standing charge: €996.84/customer /annum Capacity charge: €37.20/kVA of MIC /annum	Day: €0.02935/kWh Night: €0.00346/kWh	€0.01045/kVArh
DG 6a (low voltage auto producers MEC>MIC, max demand)	N/A	Day: €0.02935/kWh Night: €0.00346/kWh	Day: €0.02935/kWh Night: €0.00346/kWh
DG 7 & DG 7b (medium voltage customers, max demand)	Standing charge: €1,757.03/customer /annum Capacity charge: €12.85/kVA of MIC /annum	Day: €0.00508/kWh Night: €0.00080/kWh	€0.00918/kVArh
DG 7 & DG 7b (medium voltage customers, max demand) DG 7a	N/A	Day: €0.00508/kWh Night: €0.00080/kWh	€0.00918/kVArh

(medium voltage auto producers MEC>MIC, max demand)			
DG 8 & DG 8b (38kV looped customers, max demand)	€29,454.38/customer /annum Capacity charge: €6.32kVA of MIC /annum	Day: €0.00112/kWh Night: €0.00008/kWh	€0.00861/kVArh
DG 8a (38kV looped auto producers MEC>MIC, max demand)	N/A	Day: €0.00112/kWh Night: €0.00008/kWh	€0.00861/kVArh
DG 9 & DG 9b (38kV tailed customers, max demand)	Standing charge: €8,389.98/customer /annum Capacity charge: €6.32/kVA of MIC /annum	Day: €0.00112/kWh Night: €0.00008/kWh €	€0.00771 /kVArh
DG 9a (38kV tailed auto producers MEC>MIC, max demand)	N/A	Day: €0.00112/kWh Night: €0.00008/kWh	€0.00771 /kVArh

Low Power Factor Surcharge – applies to all kVArh (kilovolt Amperes hours) recorded in a billing period if the metered kVArh is more than one third of the metered kWh in any billing period. The charge is applicable to the kVArh in excess of one third of the kWh.

Excess kVA Surcharge - If the peak demand (in kVA), exceeds the maximum import capacity (MIC), a surcharge of 6 x capacity charge rate x excess kVA will apply in the billing period for NQH installations and 5 x capacity charge rate x excess kVA for QH installations in the billing period, during which the MIC was exceeded. If you are regularly exceeding your MIC, please contact ESB networks about increasing your MIC.

### **Transmission Use of System (TUoS)**

TUoS charges are the costs all electricity suppliers pay to Eirgrid to transport electricity from the generation station through the transmission grid to the distribution system (or to the customers' site for the small number of customers connected to the transmission system). The transmission system is the high voltage system for the movement of most of the electricity. The Transmission Use of System (TUoS) charge is set by Eirgrid and regulated by the CRU.

TUoS for 2020/21	DTS-D2 (nonLEUs)	DTS-D1 (nonLEUs)	DTS-D1 (LEUs)	DTS-D2 (LEUs)
Network Capacity Charge	€7.4317/MWh (day hrs)	€1,871.9363/MW	€1,588.8073/MW	€5.9176/MWh
Network Transfer Charge	€3.5453/MWh	€3.5453/MWh	€3.0090/MWh	€2.8382/MWh
System Services Charge	€6.3649/MWh	€6.3649/MWh	€5.4022/MWh	€5.4694/MWh
DSM Charge	€0.0000/MWh (day hrs)	€0.0000/MWh (day hrs)	€0.000/MWh (day hrs)	€0.000/MWh

TUoS for 2020/21	DTS-T (LEUs)
Network Capacity Charge	€1,887.5825/MW
Network Transfer Charge	€3.0090/MWh
System Services Charge	€5.4022/MWh
DSM Charge	€0.0000/MWh (day hrs)

Note:

DTS-D2 (non-LEU) is applicable to DG 3, DG 4, DG 5, the majority of DG 6 customers. DTS-D1 (non-LEUs) is applicable to some DG 6 customers.

DTS-D1 (LEUs) is applicable to DG 7, DG 8 and DG 9

customers. DTS-T (LEUs) is applicable to T-CONN customers

### **Market Operator (MO) Charges**

The Single Electricity Market (SEM) is administered by the Single Electricity Market Operator (SEMO). SEMO imposes 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. SEMO applies annually to the SEM Committee (which is comprised of the CER and the NI regulator, NIAUR) with their suggested revenues and tariffs for the upcoming tariff year. The SEM Committee reviews and approves a set of charges annually and publishes these on the SEM website. The Regulatory Authority approved MO charges for the 2020/21 tariff year were published on the SEMO website, see 'MO Tariffs and Imperfection Costs Period: 1st October 2020 to 30th September 2021'. <https://www.sem-o.com/documents/general-publications/2020-2021-SEMO-Charging-Statement.pdf>

MO Charges	2020/21
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Variable Market Operator Charge (per MWh)	€0.466/MWh
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#### Imperfection Charges

SEMO also recovers 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 (constraint costs). These are all costs relating to the operation of the grid.

Imperfection charge	<b>2020/21</b>
Tariff	€8.96/MWh

#### System Capacity Charges

This charge covers the capacity cost to the generators in the SEM. The capacity payment mechanism contributes towards generators' fixed costs because the system marginal price (SMP) is set in relation to short-run generation costs only. A capacity payment mechanism is needed to allow generators to fully recover their long-run fixed costs.

I-SEM saw the introduction of three new pass through costs on 1<sup>st</sup> October 2018, as follows:

- Difference Payment Socialisation multiplier;
- Currency Adjustment charges; and
- Residual Error Volume charges.

<b>Further operator charges</b>	<b>2020/21</b>
Supplier Capacity Charge	€14.91/MWh during day hours
Residual Error Volume	€1.16 MWh
Currency Cost Price	€0.015 MWh
Difference Payment Socialisation Multiplier	€0.001 MWh

#### **Public Service Obligation Levy (PSO)**

The Public Service Obligation Levy (PSO) is charged on all electricity customers and designed to support the national policy objectives of security of supply, the use of indigenous fuels (i.e. peat) and the use of renewable energy sources in electricity generation. The CRU updates the PSO charge annually. The updated rates apply from the 1st of October 2020 until the 30th of September 2021.

<b>PSO Levy</b>	<b>Monthly Levy Amount 2020/21</b>
Small commercial customers (MIC of less than 30kVA)	€21.41 per customer
Medium & large customers (MIC of equal to or greater than 30kVA)	€2.78 per kVA

## Your Statutory Rights

We will always aim to do our utmost to meet the above commitments, but there may be rare occasion where we are unable to do so for reasons outside of our control (for example, where network operators or other suppliers are involved). In these instances there may be times where our ability to deliver on these commitments is compromised.

## Terms and Conditions

Any payments made under this Charter for failure to meet the high standards that we have stated are made without any admission of legal liability on the part of Panda Power. Our detailed Terms & Conditions of Business and the other Guidance documents referred to here in this document can be viewed online at our company web site or by asking us to post them to you.

## Contact Details

Please see our details below:

- **Phone Lo-call:** 1890 68 68 68 or 01 8298989.
- **Email:** [Customercare@pandapower.ie](mailto:Customercare@pandapower.ie)
- **Address:** Head Office, Ballymount Road Upper, Ballymount, Dublin 24
- **Website:** [www.pandapower.ie](http://www.pandapower.ie)

**\*\*Please note that to maintain the highest level of service we may monitor and record calls\*\***