



# Schedule of Operation & Maintenance Charges 2024

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Commercial and Renewable Regulation  
Asset Management  
ESB Networks DAC.

## **1.1 Background**

Generators connected to the Distribution system are required to pay an annual charge to ESB Networks for the operation and maintenance of the substations, overhead lines, and cables built to connect their facility to the Distribution system. The annual charges are based on a standard amount per km line or cable and per item of substation equipment and, for transparency, are itemised in the same manner as the generator standard charges. These standard amounts are referred to as Operation and Maintenance unit charges.

## **1.2 General Points on O&M unit costs**

The operation and maintenance unit costs are intended to reflect only the additional operation and maintenance costs which will be incurred by the DSO arising from the generator connection. For example, when it is proposed to replace transformers in an existing substation with larger units to allow for connection of a generator, then only the extra O&M cost arising from the larger transformers is included in the O&M unit cost. In addition, where an item of plant is shared by a number of generators, they will also share the relevant O&M charge on an annual basis. The share will be on a per MW basis and will be calculated in the same manner as the share of the capital cost.

The O&M unit costs covered in this submission cover operation and maintenance costs on distribution assets only. They are not intended to cover O&M costs on transmission assets.

In practice the O&M costs incurred on a given section of line or item of plant will vary from year to year. However, it is proposed to levy an annual charge based on the estimate of the average cost over the first 20 years of service but incremented annually for inflation. 20 years is the length of the connection agreements offered to generators.

### 1.3 Make-up of O&M charges

The O&M costs arising from generator connections consist of the following types of cost:

- *Planned Maintenance activities*

These are activities generally carried out on a cyclic or “as needed” basis. The planned maintenance component of the unit costs is based on ESB maintenance policies for the type of plant involved.

- *Fault repair activities.*

The fault repair component is based on an estimate of fault repair costs in the first 20 years of service.

- *Line Diversion.*

This cost arises in the case of overhead lines.

On construction of a line, ESB commits to landowners to divert a section of line free of charge if required in the event that planning permission is obtained for a new house or structure conflicting with line

- *Rates*

ESB pay rates to the local authorities based on the depreciated replacement costs of its networks assets. The O&M unit costs contain a component to reflect the additional rates payable by ESB Networks for assets used to connect the generator.

- *Telecommunication costs*

Telecommunication costs arise in relation to meters and SCADA equipment at the generator sites.

## 2. ESB Operation and Maintenance Charges for Year 2024

	Network Asset Type	Unit of Charge	Amount excl rates	Rates	Total Amount due (€)
<b>Line Work</b>					
1.	Standard 110kV line (300ACSR)	Per km	1310	1461	2771
2.	38kV 300ACSR	Per km	1298	772	2070
3.	38kV150AAAC (Mulberry) Line	Per km	524	622	1146
4.	38kV 100ACSR	Per km	524	487	1011
5.	MV 150ACSR/92 SCA	Per km	330	364	694
<b>Cable Costs (excludes all civil works and ducting)</b>					
6.	110kV cable	Per km	256	3300	3556
7.	38kV cable	Per km	219	1190	1409
8.	MV cable	Per km	159	489	648
9.	38kV cable end mast	Per mast	0	390	390
10.	110kV cable end mast	Per mast	0	1368	1368
<b>Station Work</b>					
<b>110kV stations</b>					
11.	110kV/MV station incl. equipment (2*20MVA)	Per station	27760	28133	55893
12.	110kV/38kV 63MVA green field transformer package	Per station	16431	15148	31579
13.	110kV/38kV 31.5MVA green field transformer package	Per station	16261	11409	27670
14.	110kV/MV 20MVA green field transformer package	Per station	15979	9889	25868

**ESB Schedule of Operation and Maintenance Charges © ESB**

	Network Asset Type	Unit of Charge	Amount excl rates	Rates	Total Amount due (€)
15.	110kV/MV 31.5MVA green field transformer package	Per station	16261	12094	28355
16.	1*31.5MVA to 2*31.5MVA		4005	8301	12306
17.	2*31.5MVA to 2*63MVA		342	9033	9375
<b>38kV stations</b>					
18.	38kV/MV Station incl. equipment (2*5MVA)	Per station	13794	11361	25155
19.	38kV/MV 5MVA Green field transformer package	Per station	10828	4770	15598
20.	38kV/MV 10MVA Green field transformer package	Per station	10938	5193	16131
21.	38kV/MV 15MVA Green field transformer package	Per station	10975	5471	16446
22.	38kV/MV - install 5MVA transformer into existing station – B/B extension	Per station	2084	4896	6980
23.	38kV/MV - install 10MVA transformer into existing station – B/B extension	Per station	2194	5314	7508
24.	38kV/MV – install 5MVA transformer into existing station no B/B extension	Per station	2039	3873	5912
25.	38kV/MV – install 10MVA transformer into existing station no B/B extension	Per station	2148	4288	6436
26.	Uprate 2*5MVA to 2*10MVA		219	830	1049

<b>Miscellaneous Station items</b>					
	<b>Network Asset Type</b>	<b>Unit of Charge</b>	<b>Amount excl rates</b>	<b>Rates</b>	<b>Total Amount due (€)</b>
27.	38kV cubicle in 38kV station	Per cubicle	318	1461	1779
28.	38kV cubicle in 110kV station	Per cubicle	390	1678	2068
29.	MV cubicle in 110kV station	Per cubicle	390	1678	2068
30.	MV cubicle in 38kV outdoor station	Per cubicle	318	1461	1779
31.	MV cubicle with interface transformer	Per cubicle	817	1941	2758
32.	MV terminal station without NULEC recloser (pre-Gate 2 connections)	Per station	208	271	479
<b>Metering and SCADA</b>					
33.	Metering and SCADA for 2MW-5MW site	Per site	811	0	811
34.	Metering and SCADA for 5MW-10MW site	Per site	947	0	947
35.	Metering and SCADA for >10MW site	Per site	1559	0	1559
36.	Metering for <2MW site	Per site	539	0	539
37.	Protection for MV<2MW		231	146	377
38.	Protection for MV>2MW, <5MW with SCADA via GPRS		378	160	538

<b>Metering and SCADA</b>					
	<b>Network Asset Type</b>	<b>Unit of Charge</b>	<b>Amount excl rates</b>	<b>Rates</b>	<b>Total Amount due (€)</b>
39	SCADA for 38kV connections >2MW, <5MW and MV where no GPRS available		6104	531	6635
<b>38kV customer compound [at windfarm site]</b>					
40	38kV compound at developers site – overhead line incomer	Per station	1966	3005	4971
41	38kV compound at developers site – cable incomer	Per station	1966	3042	5008

**Notes**

1. Above Charges are exclusive of VAT
2. Where generators share elements of plant, the operation and maintenance charge will be divided pro-rata on the basis of their MEC. The charge will be based on the network as built except as outlined in 3. below.
3. Where the system operator decides to build other than the LCTA for system development reasons, the operation and maintenance charge will be based on the LCTA rather than the actual build
4. Operation and Maintenance Charges include a component for rates payable by ESB Networks to Local Authorities. These rates apply to transmission and distributions networks.