



# Network service and connection fee rates for the high-voltage distribution network

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**caruna**

## **NETWORK SERVICE RATES**

### **DELIVERY WITH 110 KV VOLTAGE**

With the fees according to these network service rates, Caruna takes care of distributing electrical energy and provides the network services related to the distribution: network maintenance, energy metering and 24-hour fault call service. In addition to these, the fee covers grid charges.

For the electricity network service, we comply with the network service contract concluded with the customer, the related terms of network service for the high-voltage distribution network recommended by Finnish Energy (SJVPE 2019) and the valid price list for network services.

### **CHOOSING A NETWORK SERVICE PRODUCT**

From the two high-voltage distribution network service products, you can choose the one that best suits your needs. High voltage product 2 is suitable for demand facilities with an annual consumption of about 120 GWh or more. You can change the product once during the calendar year free of charge.

Each product includes a fixed fee, consumption fee and load fee. We will charge a reactive power fee for the part exceeding the reactive power limits. We will charge the consumption and load fees according to the consumed electricity. Electricity storage facilities are not charged a consumption fee. The fixed fee is charged for each calendar month.

With regard to reserve connections, we will charge a fixed monthly fee for the months when the reserve connection has been used. The customer also pays for the direct costs arising from the reserve connection (such as any power fees charged by other network companies). With regard to a connection maintenance, the customer pays for the direct costs (such as any power fees charged by other network companies).

## **ELECTRICITY TAX**

In addition to the fees according to the price list, we will charge the current electricity tax based on electricity consumption (incl. energy tax and security of supply charge) on the invoice. All our customers automatically fall into tax bracket 1 unless they have specifically declared otherwise. If you consider yourself eligible for a tax bracket other than 1, please provide us with a written security.

Tax bracket 1: €22.4/MWh, VAT 0%

Tax bracket 2: €0.5/MWh, VAT 0%

Security of supply fee: €0.13/MWh, VAT 0%

Read more on [caruna.fi/tax](https://caruna.fi/tax).

## **NET ELECTRIC POWER FOR POWER PLANTS**

The customer pays a net effect fee for all power plants connected either directly or indirectly to the customer's own network, and which exceed the net effect of 1 MW defined under Commission Regulation (EU) 543/2013.

Net effect refers to the highest possible production, i.e. the net production, that a power plant can produce for a minimum of one hour in normal use. The net effect of a power plant is determined by subtracting the internal consumption of production from gross production. The internal consumption of production includes auxiliaries in power plants as provided for in the Decree of the Ministry of Economic Affairs and Employment of Finland (309/2003).

Electricity storage facilities are not charged the generation capacity fee for power plants.

## **POWER PLANTS WITH SHORT OPERATING TIME**

Power plants with a short operating time that will for the following year be subjected to an energy-based fee instead of a power fee will be determined annually in December. For the production at power plants with a short operating time the customer pays a separate energy-based fee based on the realised net production.

Low-power backup power generators, which are intended only for temporary use and disturbance management, will not be taken into account in invoicing.

## **POWER RESERVE FEE**

In addition to the fees charged in accordance with the price list, we will charge a maintenance fee for the availability of the power reserve based on the electricity consumption of winter daytime hours 7am – 9pm on weekdays (Mon–Fri) from 1 December to 28 February. The amount of maintenance fees and of the potential activation costs of power reserves is determined according to the unit price calculated by the transmission system operator for each invoicing period.

HVN product 1	Caruna Oy and Caruna Espoo Oy	(VAT 0%)	Unit
Fixed fee .....		1 346 .....	€/month
Consumption fee .....	winter time (1 Dec-28 Feb Mon-Fri, 7am - 9pm)	12.29 .....	€/MWh
	other times .....	5.12 .....	€/MWh
Load fee .....	intake from the network .....	1.81 .....	€/MWh
	output to the network .....	0.78 .....	€/MWh
Reactive energy fee .....	intake from the network, output to the network	5 .....	€/MVarh
Reactive power fee ** .....		1 000 .....	€/MVar
Net electric power for power plants.....		1 944 .....	€/MW,a
or per the customer's choice.....		3.26 .....	€/MWh
HVN product 2*	Caruna Oy and Caruna Espoo Oy	(VAT 0%)	Unit
Fixed fee .....		19 500 .....	€/month
Consumption fee .....	winter time (1 Dec-28 Feb Mon-Fri, 7am - 9pm)	9.91 .....	€/MWh
	other times .....	3.29 .....	€/MWh
Load fee .....	intake from the network .....	1.81 .....	€/MWh
	output to the network .....	0.78 .....	€/MWh
Reactive energy fee .....	intake from the network, output to the network	5 .....	€/MVarh
Reactive power fee ** .....		1 000 .....	€/MVar
Net electric power for power plants.....		1 944 .....	€/MW,a
or per the customer's choice.....		3.26 .....	€/MWh

\*) Using HVN product 2 requires using only one connection point which can be several connections to a 110 kV circuit-breaker field if they are at the same substation on the same busbar.

\*\*) A reactive power fee is charged for the highest reactive power exceeding the reactive power limits per connection each month. Invoicing does not take into account the fifty highest exceeding hours per month.

# CONNECTION CONTRACT AND FEES

## CONNECTION CONTRACT

Connection to the high-voltage distribution network and the connection method are agreed upon with a separate connection contract that determines the connection capacity, connection point, connection fee and terms of connection. New connection contracts will be subject to the terms of connection for high-voltage distribution networks (SJLE 2019). The condition for a connection contract is that the city plan (or planning need solution) required by the project and the building permit are valid, and the expropriation permit for any connection line has been submitted to the authorities.

## CONNECTION FEE

As a connection fee to the high-voltage distribution network, we charge the immediate expansion costs of connecting to the network, as well as a capacity reservation fee. Expansion costs typically include costs incurred by fields for the connecting party.

The connecting party is responsible for the construction of the electrical network on the part subsequent from the connection point. Connection fees are non-refundable in case of termination of the contract.

## CAPACITY RESERVATION FEE

As a capacity reservation fee, we charge €24.100/MVA in Caruna Oy's network area and €13.600/MVA in Caruna Espoo Oy's network area. The connection capacity is determined in line with the connecting party's actual power needs, as stated in the connection agreement.

## CONNECTION FEE FOR INCREASING THE CONNECTION

We will charge the immediate expansion costs as well as a capacity reservation fee according to the difference between the new and old connection capacity.

