Distribution loss factors

EA networks

Applying from 1 April 2024

This schedule provides the distribution loss factors for energy reconciliation that we are required to provide to the registry under the Electricity Industry Participation Code, Part 11, Schedule 11.1, Clause 22.

The distribution loss factor is a multiplier that is applied to the energy sales metered at the connection in order to calculate the volume of energy purchased at the grid exit point needed to supply that connection. This process makes allowance for energy that is 'used up' or 'lost' in the delivery system between the grid exit point and the connection. Losses are a combination of technical losses (predominantly from the heating that occurs in transformers, lines and cables) and non-technical losses (discrepancies that arise from timing differences, metering accuracy, and unbilled usage).

EA Networks' volume based delivery charges are based on metered consumption, and loss factors are not applied when calculating charges.

Every electricity connection (ICP) is assigned a loss category code from the schedule below, and this is recorded and available for electricity retailers to use on the Electricity Authority's registry, see:
   https://www.electricityregistry.co.nz or
   https://www.ea.govt.nz/your-power/your-meter/address/

Balancing Area: ASHBURTEASHG

Loss Category Code	Description	Load (consumption)	Export (generation)
L01	Low Voltage (230/400V) Connections	1.071	1.071
M01	Medium Voltage (11/22 kV) Connection	1.030	1.030
M02	Medium Voltage (11/22 kV) Connection	1.022	1.022
M03	Medium Voltage (11/22 kV) Connection	1.079	1.000
M04	Medium Voltage (11/22 kV) Connection	1.043	1.043
M05	Medium Voltage (3.3 kV) Connection	1.022	1.000
M06	Medium Voltage (11/22 kV) Connection	1.022	1.000
H01	High Voltage (66 kV) Connection	1.011	0.980
H02	High Voltage (66 kV) Connection	1.011	0.980

Balancing Area: UPPERAKEASHE

Loss Category Code	Description	Load (consumption)	Export (generation)
U01	All connections to Upper Rakaia embedded network	1.029	1.029