

Distribution loss factors

(applying from 1 April 2020)

This schedule provides the distribution loss factors for energy reconciliation that we are required to provide to the registry under the *Industry Participation Code*, Part 11, Schedule 11.1, Clauses 21 and 22. Note that there are no changes to the existing loss factors, but that we are republishing them to confirm application from 1 April 2020 also.

The distribution loss factor is a multiplier that is applied to the energy sales metered at a connection point to calculate the volume of energy purchased at the Grid Exit Point to supply that connection.

This process makes allowances for the energy that is “used up” or “lost” by the delivery system between the Grid Exit Point and the connection.

A significant proportion of the energy loss occurs in transformers. Therefore different loss factors have been provided depending on the voltage of metering. With LV (230/400 V) metering losses in the transformer are included, but this is not the case for HV (11kV) metering.

The Loss Ratio is the proportion of energy purchases that are “lost”. This ratio is often published for Distribution Networks. Mathematically: Loss Factor = $1 / (1 - \text{Loss Ratio})$.

Our declared loss factors are:

Category	Loss code	Loss Factors	
		Load (consumption)	Export (generation)
Low voltage metered connections (230V or 400V)	MLLV	1.0587	1.0072
11kV metered connections	MLHV	1.0343	1.0225

The applicable loss factor code applying for a connection is available from the Electricity Authority’s registry (for those with access).