

# Marlborough Lines Ltd

## Distribution Loss Factors and Codes

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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 which was purchased at the Grid Exit Point to supply that connection.

This process makes allowances for the energy that is “lost” between the Grid Exit Point and the connection.

Mathematically:  $\text{Loss Factor} = 1 / (1 - \text{Loss Ratio})$

The Loss Ratio is the proportion of energy purchases that are “lost”. It is this ratio that is usually published for Distribution Networks.

A significant proportion of the energy loss occurs in transformers. Therefore, different sets of 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 above result in Loss Factors as follows.

	Loss Code	Loss Factor
LV Metering	MLLV	1.0693
HV Metering	MLHV	1.0384