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Top Energy Loss Factors

In accordance with the Electricity Industry Participation Code, Top Energy has reviewed the Loss Factors applicable to ICP's on the Top Energy Electricity Distribution Network.

Top Energy's customers are metered at low and medium voltage. For each of these voltages a Loss Factor Code is calculated. Table 1 below indicates the Loss Factor values applicable to each Loss Factor Code from 1 April 2017. These have been derived from load-flow modelling of the distribution network including power transformers, sub-transmission circuits, high voltage feeders, distribution transformers and low voltage distribution reconciliation losses.

Table 1 Loss Factor Codes and Loss Factors for Top Energy's Network

Loss Factor Code	Applied to Customer Connected to	Loss Factor
RLF D	LV Network 230/400V	1.1320
RLF I1 (JNL)	JNL	1.0273
RLF I2 (AFFCO)	AFFCO	1.0464
RLF G1 (NGA)	Ngawha Generation	1.0000

Losses recorded for the Top Energy Network are listed below in Table 2.

Table 2 Losses on Top Energy Network

	ACTUAL 24 Month to Dec 16	CURRENT 12 mths to Dec 16	Less IND Dec-16	NETWORK 12 mths to Dec 16	BUDGET 12 mths to Dec 18
Total Energy Injected into Network	716,415	359,367	60,500	298,867	367,797
Total Energy Sold to Customers	645,563	321,863	58,695	263,168	323,863
Total Losses (kWh)	70,852	37,504	1,804	35,700	43,934
Loss percentage	9.89%	10.44%	2.98%	11.95%	11.95%
TLF for Entire Network (Reconciliation) Including ICC	1.110	1.117	1.031	1.136	1.136