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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 2018. 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	1.1234
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 Aug 17	CURRENT 12 mths to Aug 17	Less IND Aug 17	NETWORK 12 mths to Aug 17	BUDGET 12 mths to Aug 19
Total Energy Injected into Network	716,650	360,161	57,096	303,064	365,775
Total Energy Sold to Customers	647,416	323,211	55,414	267,797	323,211
Total Losses (kWh)	69,235	36,950	1,683	35,267	42,565
Loss percentage	9.66%	10.26%	2.95%	11.64%	11.64%
TLF for Entire Network (Reconciliation) Including ICC	1.107	1.114	1.030	1.132	1.132