



Top Energy Limited

Level 2, John Butler Centre
 60 Kerikeri Road
 P O Box 43
 Kerikeri 0245
 New Zealand
 PH +64 (0)9 401 5440
 FAX +64 (0)9 407 0611

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 2020. 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	Registry Loss Code	Applied to Customer Connected to	Loss Factor
RLF D	GLV	LV Network 230/400V	1.1234
RLF I1 (JNL)	IND1	JNL	1.0273
RLF I2 (AFFCO)	IND2	AFFCO	1.0464
RLF G1 (NGA)	GEN1	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 19	CURRENT 12 mths to Aug 19	Less IND Aug 19	NETWORK 12 mths to Aug 19	BUDGET 12 mths to Aug 20
Total Energy Injected into Network	723,950	360,521	51,695	308,826	361,163
Total Energy Sold to Customers	654,540	325,696	50,151	275,545	321,491
Total Losses (kWh)	69,410	34,825	1,544	33,281	39,672
Loss percentage	9.59%	9.66%	2.99%	10.78%	10.98%
TLF for Entire Network (Reconciliation) Including ICC	1.106	1.107	1.03	1.121	1.1234