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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 2024. These have been derived from load-flow modelling of the entire network including power transformers, sub-transmission circuits, high voltage feeders, distribution transformers and low voltage distribution reconciliation losses.

A new embedded solar generator, Kaitaia Solar Farm (KTS), has recently been commissioned. KTS receives its own site-specific embedded generator Reconciliation Loss Factor.

Table 1 Loss Factor Codes and Loss Factors for Top Energy's Network April 2024 to March 2025

| Loss Factor Code | Registry Loss Code | Applied to Customer Connected to | Loss Factor Consumption | Loss Factor Generation |
|------------------|--------------------|----------------------------------|-------------------------|------------------------|
| RLF D | GLV | LV Network 230/400V | 1.1069 | 1.0000 |
| RLF I1 (JNL) | IND1 | JNL | 1.0209 | 1.0000 |
| RLF I2 (AFFCO) | IND2 | AFFCO | 1.0296 | 1.0000 |
| RLF G1 (NGA) | GEN1 | Ngawha Generation A (25 MW) | 1.0000 | 1.0000 |
| RLF G2 (NGB) | GEN2 | Ngawha Generation B (31MW) | 1.0000 | 1.0000 |
| RLF G5 (KTS) | KSF | Kaitaia Solar Farm (23MW) | 1.0089 | 1.0163 |