

## Price categories and metered pricing

All connections to Network Tasman's network have a Price Category. The categories vary depending on factors such as metering set-up, capacity provided and in some cases the nature of electricity use. This document outlines, where applicable, what the connection price categories are, and what the associated metered prices are used for. For more details, please contact Network Tasman.

### Categories for Unmetered Supplies

These are known as Load Group 0 (zero) supplies, are typically of low capacity and are unmetered. The two Categories in this group are:

- Category 0UNM. These are low capacity connections that are fitted with a small fuse where the consumption is very low. They are intended for connections such as phone boxes, roadside communication cabinets, electric fences etc. There is single daily charge for these connections
- Category 0S. This code is used for connections that are street lighting. The charge is based on the wattage (W) used by the streetlight(s) installed, and is charged on a c/W/day basis.

### Categories for metered supplies up to 150 kVA

These apply to all metered connections where the supply capacity is between 15 and 150 kVA. A standard household has a capacity of 15kVA. Historically the meters are read on monthly or bimonthly cycle, but in most cases now a smart meter is fitted by the electricity retailer and readings are able to be taken remotely and more frequently.

The Price Categories/groups (and their codes) are:

- Supplies with a 15kVA capacity connection: 1GL, 1RL, 1RS.
- Supplies from 20 to 150 kVA capacity: 2HLFC, 2LLFC, 2 and HLF.

Each consumer in the above categories is charged:

1. A fixed/daily charge depending on the Price Category of the connection the consumer has to the network. Each price category's fixed/daily charge and its corresponding unit/kWh charges are the same irrespective of the connections location on the network
2. Unit (kWh) charges depending on the meter-tariffs provided. Four meter/kWh pricing options (tariffs) are available depending on the consumer's specific requirements and the nature of the electricity usage profile.

### Fixed Charges

Category 1GL This is for connections that have a supply capacity of 15kVA with 1, 2 or 3 phases and where energy is used for non-residential purposes. These connections are levied a daily charge (c/day).

- Category 1RL This option is for where energy is used for residential purposes and where the ICP is a primary residence. These connections have a supply capacity of 15kVA with 1, 2 or 3 phases, and are levied a daily charge (c/day).
- Category 1RS This is for where energy is used residential purposes and is designed for ICPs that consume more than 8,000kWh/year. These connections have a supply capacity of 15kVA with 1, 2 or 3 phases, and are levied a daily charge (c/day)
- Group 2 Price Category 2 connections have from 20 to 150kVA supply capacity, and incur a Demand Charge that is calculated daily, based on the installed kVA capacity fused at each connection (c/kVA/day).
- Category 2LLFC This category is provided to meet a regulatory requirement. It is for residential low users (less than 8,000 kWh pa) of 20 or 30kVA connection capacity.
- Category 2HLFC This category too is due to regulation, and is also for residential low users (less than 8,000 kWh pa), but in this case with 40 -150 kVA connection capacity.
- Category HLF This category is only suitable for connections where the annual kWh consumption is high relative to the connection capacity. Contact Network Tasman to enquire if your connection is suitable. It has a Demand Charge that is calculated daily, based on the installed kVA capacity fused at each connection.

### **Unit or Meter/price Charges – c/kWh**

The following Unit or Meter pricing options are currently available to Categories 1GL, 1RL and 1RS for 15kVA capacity connections and Categories 2, 2LLFC, 2HLFC and HLF for 20kVA to 150kVA consumers. The actual rate of the meter-price depends on which price category the connection has, eg Group 2 or 1RS.

#### Uncontrolled Prices

The following uncontrolled prices provide uninterrupted supply for standard lighting, heating and general supply requirements. A connection would have either the Anytime price OR the Day/Night combination.

Supply is, in normal supply circumstances, continuously available 24 hours each day.

**Uncontrolled** - Provides uninterrupted availability to all domestic, commercial and irrigation users. Where a consumer has a spa pool or pottery kiln, Anytime or the Day/Night are the available pricing options. Network Tasman will fit an Off Peak relay (control device) to the supply if the power rating is greater than 4kW.

**Day (of Day/Night)** - This is the Day price of the day/night pricing structure available to all consumers. This price can be used instead of (but not as well as) Anytime. It allows consumers with a high percentage of night consumption the benefit of the cheaper cost of

night rates, and provides an incentive to shift use into the night period. The Day period is from 7am to 11pm. The Night period is from 11pm to 7am.

**Night (of Day/Night)** - This is the Night price of the day/night pricing structure available to all consumers. This price can be used instead of (but not as well as) Uncontrolled. It allows consumers with a high percentage of night consumption the benefit of the cheaper cost of night rates, and provides an incentive to shift usage into the night period. The Night period is from 11pm to 7am. The Day period is from 7am to 11pm.

### Controlled Supply Prices

All of the controlled prices are "off peak" where the supply is separately metered from either the Anytime or Day/Night metered supply option above. They are available where the supply is controlled by Network Tasman. Typically Network Tasman uses a ripple signal to control supply for the controlled supply price/tariff, but in some cases this might be with a time clock on the meter board. The availability or "on" periods vary with each price.

The purpose of the controlled prices is to give consumers a lower price for particular types of loads in exchange for the ability of Network Tasman to control the supply to manage the peaks on the local network and keep all prices down by avoiding costly network investment.

Use of these prices should not inconvenience consumers nor reduce the level of service electricity provides compared to an uncontrolled option. These prices are for loads with the following characteristics:

- applications that are all year round;
- replace or substitute for a peak load device (eg, nightstore v's fan heater);
- the device must have sufficient storage such that controlling the load does not affect the service of the appliance;
- operate long periods each day (8 hours+); and
- cannot be substituted by another electrical appliance while the equipment is off.

**Night** - Intended primarily for nightstore heaters, underfloor heating and night only water heater. They best suit the newer generation of night store heaters for space heating. For water heating it is important that the volume of the cylinder is large enough to last the whole day, and that the element is sized to fully reheat the cylinder if necessary in less than 8 hours. (In a domestic situation, a 270 litre cylinder with a 3kW element would be the minimum cylinder size). In normal supply circumstances, electricity is available between 11pm to 7am. At other times the supply is De-energised. Not available for spa pools, or pottery kilns greater than 4kW. The price is the same as Night of the Day/Night option.

The controlled appliances must be connected (and remain connected) to a load control relay that operates in response to the load control signal.

**Controlled Water** - Controlled Water is intended primarily for water-heating, but can be used for any process that has storage and can be controlled without compromising the service of the appliance. In normal supply circumstances the Control (Off) Periods vary and can be up to

10 hours per day, with a target minimum "on period" of 5 hours during the daylight hours 7 days each week. Controlling generally occurs mostly during the winter months (May to September inclusive) but may also occur at other times of the year.

The Customer's controlled appliances must be connected (and remain connected) to the relevant load control relay.

### Generation

Connections that have the ability to export energy back into Network Tasman's network must have metering fitted such that any export energy is metered separately. Typically, these are connections where a solar generation unit is fitted. This meter also has a price code to allow data capture. There is currently no charge associated with this metered export energy.

### **Metered supplies with capacity in excess of 150kVA (Group 3)**

Group 3 consumers have capacity requirements of at least 150kVA. Group 3 contains larger business consumers and primary reliance is placed on demand prices. Two different types of demand prices are used:

- Customer Demand: which is measured in kVA based on the highest half hour of Anytime Maximum Demand (AMD) during the previous 12 month calendar period;
- Regional Coincident Peak Demand (RCPD) Demand: which is measured in kW using Transpower's interconnection pricing methodology. That is, the demand of the connection at the top 100 peaks of the Upper South Island (USI) transmission region.

In addition to the demand charges outlined above, Group 3 consumers are subject to consumption (kWh) charges. Group 3 consumers are subject to day/night charges that vary according to season (Summer/Winter).

Half-hour metering is required for Group 3 consumers.