



## ***POWER NETWORKS***

# ***2014-15 Electricity Network Tariffs and Charges and Future Price Trends***

August 2014

Power and Water Corporation

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# 1 Business Characteristics

Power Networks is a ring-fenced electricity network business within Power and Water Corporation that has responsibility for planning, building and maintaining reliable electricity networks to transport electricity between electricity generators and electricity consumers in the Northern Territory. Its mission is to achieve this in a safe, reliable, efficient and environmentally sustainable manner.

Power Networks operates under a Network Licence<sup>1</sup> issued by the Utilities Commission that authorises it to:

- Own and operate an electricity network within the geographic area specified in Schedule 2 of that Network Licence; and
- Connect the electricity network to another electricity network, in accordance with the terms and conditions of the Network Licence.

Power Networks provides services to network users, including electricity retailers or end-use customers.

In effectively managing network services for its customers, Power Networks must take account of a range of regional, climatic, customer and asset issues. Some of the key issues that affect the Power Networks business and are relevant to its provision of network services include:

- The supply area is very diverse and subject to generally harsh climatic conditions, ranging from arid inland areas to the tropical environment in the northern part of the Territory;
- Power Networks has lower customer/load densities than most other distribution network service providers and higher costs to provide network services;
- Power Networks also services rapidly growing commercial and domestic development areas in and around the Darwin area;
- The extended hot and humid conditions in the northern part of the Territory in the wet season have resulted in the almost universal adoption of air conditioning, which is used for extended periods. The resulting high and sustained electrical demand in the wet season makes obtaining access to network equipment for maintenance or repairs problematic; and
- The climatic conditions in the Territory lead to the premature ageing of electrical equipment. Whilst a significant program of refurbishment and replacement work was carried out on major equipment in the 2009-14 regulatory control period, the refurbishment and replacement of a range of assets and equipment is necessary and ongoing.

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<sup>1</sup> Utilities Commission, *Network Licence*, last varied 28 October 2011.

## **2 2014 Network Price Determination**

The Electricity Networks (Third Party Access) Code (the Code) requires the Utilities Commission, in consultation with interested parties, to review the network price regulation methodology that is used to set Power Networks' Standard Control Network Tariffs for the regulated network.

This process occurs every five years and the review and consideration of the price regulation methodology to apply from 1 July 2014 to 30 June 2019 was referred to as the '2014 Network Price Determination'. The purpose of Network Price Determination process is to establish the funding required by Power Networks to continue to provide a safe, secure and reliable supply of electricity.

Retail electricity prices currently paid by customers comprise a number of cost components, which are combined into their bundled electricity prices:

- Electricity generation costs;
- Electricity network costs (Standard Control Services);
- System operation and control costs; and
- Customer retail services.

The 2014 Network Price Determination concerns only the network component of electricity prices.

Residential and small to medium sized business customers are not currently impacted by Standard Control Network Tariff pricing decisions, as they are subject to an Electricity Pricing Order issued by the Northern Territory Government.

While the Network Price Determination establishes the Network Service Classification, it does not set the pricing methodology or charges for Alternative Control Services or Excluded Network Services that are subject to effective competition. Charges for these services are developed in accordance with the Code on a fair and reasonable basis.

### **3 Classification of Services**

The Utilities Commission has determined a Network Service Classification to apply from 1 July 2014 to 30 June 2019<sup>2</sup>. Power Networks must provide services, and charge for those services, in accordance with this approved Network Service Classification, which can be found at Appendix A.

The 2014-19 Network Service Classification defines the following services:

- Direct Control Services – Standard Control Services (also termed 'regulated network access services');
- Direct Control Services – Alternative Control Services (also termed 'excluded network access services not subject to effective competition'); and
- Excluded network access services subject to effective competition.

#### ***3.1 Standard Control Services***

Standard Control Services are provided by Power Networks and include services such as planning, designing, and constructing the electricity network, connecting customers to the network and metering the consumption and demand of customers connected to the network to the standards set out in the Network Technical Code and Network Planning Criteria.

Power Networks recovers the capital, operating and maintenance expenditure associated with providing a safe, secure and reliable supply of electricity through Power Networks' Standard Control Network Tariffs. These tariffs are charged to electricity retailers.

#### ***3.2 Alternative Control Services***

Alternative Control Services are services that Power Networks undertakes for a network user, that are not part of the standard service that Power Networks provides to all users (termed Standard Control Services). The provision of Alternative Control Services is not currently subject to effective competition.

The expenditure associated with providing Alternative Control Services is not recovered through Power Networks' Standard Control Network Tariffs, which are charged to all electricity customers. Alternative Control Services are instead only charged to the network user that requests the service.

Alternative Control Services are distinguished between:

- Fee-based Services that are provided based on a set schedule of charges; and
- Quoted Services that are provided on a quoted basis using a consistent methodology. These are services for which their nature and scope cannot be

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<sup>2</sup> Utilities Commission, *2014 Network Price Determination Final Determination Part A – Statement of Reasons*, April 2014, Appendix A, p. 160.

known in advance, irrespective of whether they are customer requested or triggered by an external event.

In accordance with clause 72(4) of the Code, Power Networks provides Alternative Control Services on fair and reasonable terms.

### ***3.3 Excluded Network Services (Competition)***

Excluded Network Services (Competition) are services that Power Networks undertakes for a network user, that are not part of the standard service that Power Networks provides to all users (termed Standard Control Services). The provision of these services is subject to effective competition in the Territory (i.e. there are other service providers).

The expenditure associated with providing these services is not recovered through Power Networks' Standard Control Network Tariffs, which are charged to all electricity customers. They are instead only charged to the network user that requests the service.

In accordance with clause 72(4) of the Code, Power Networks provides Excluded Network Services subject to effective competition on fair and reasonable terms.

## **4 Standard Control Network Tariffs**

Power Networks' Standard Control Network Tariffs are regulated by the Utilities Commission in accordance with the Code.

The 2014-15 Standard Control Network Tariffs can be found at Appendix B.

### **4.1 Network Tariff Objectives**

The major objectives of network pricing are as follows:

- **Pricing efficiency** – an efficient network price is one that signals to the customer their contribution to the cost of providing network services, although moves towards efficient pricing need to be tempered to limit their impact on some customers;
- **Customer equity** – customers should pay a reasonable allocated share of costs;
- **Pricing simplicity** – price structures should be understandable, simple and transparent; and
- **Revenue sufficiency** – prices are formulated to recover the regulated revenue allowance.

### **4.2 Network Tariff Changes**

Power Networks' Standard Control Network Tariff changes are principally driven by the requirement to improve the cost reflectivity of network pricing. The revised tariffs provide more equitable outcomes for customers, whilst contributing to managing network demand.

Power Networks has made alterations to the structure of Standard Control Network Tariffs in 2014-15. Power Networks will also make additional changes progressively throughout the 2014-19 regulatory control period, within all regulatory compliance requirements, and with due regard for the impact upon Power Networks' customers.

#### **4.2.1 2014-15**

Power Networks made the following amendments to Standard Control Network Tariffs in 2014-15:

- Established additional consumption block levels for Domestic and Commercial customers with an annual consumption less than 750 MWh per annum (the Domestic and Commercial tariffs each have three blocks but with different threshold levels);
- Established separate tariffs for street lighting (and similar consumption profiled unmetered supplies) and for traffic lights (and similar unmetered 24 hour supplies), initially with the same rates;

- Established separate tariffs for low voltage and high voltage connected Commercial customers with an annual consumption more than 750 MWh per annum, initially with the same rates; and
- Applied a uniform increment to existing tariff charging parameters to permit recovery of the annual revenue requirement, in accordance with the Ministerial Direction received from Power and Water Corporation's Shareholding Minister.

#### **4.2.2 2015-16 to 2018-19**

Over the remainder of the 2014-19 regulatory control period (2015-16 to 2018-19), the expected changes to Standard Control Network Tariffs are as follows:

##### *Domestic Tariffs*

- Progressively move from a declining to an inclining block structure.

##### *Commercial Tariffs (commercial customers consuming less than 750 MWh pa)*

- Progressively move from a declining to an inclining block structure; and
- Increase the level of the Service Availability Charge.

##### *Unmetered Supplies*

- Introduce separate tariffs for street lighting (and similar consumption profiled unmetered supplies) and for traffic lights (and similar unmetered 24 hour supplies), to improve cost reflectivity.

##### *Commercial Tariffs (commercial customers consuming more than 750 MWh pa)*

- Introduce separate, voltage based, tariffs for low voltage and high voltage connected customers;
- Progressively simplify the tariff structure and rebalance the charging parameters to provide greater cost reflectivity;
- Introduce an Excess kVAr charge, as an incentive to customers to improve compliance with power factor specifications of the Network Technical Code; and
- For further consideration – adoption of a seasonal tariff profile.

### **4.3 Network Tariff Classes**

The tariff class groupings for the 2014-19 regulatory control period are shown in the table below.

**Table 1 – Standard Control Network Tariffs: Tariff Classes**

<b>Tariff Class</b>	<b>Tariff</b>
Commercial HV	>750 MWh pa Commercial HV: Commercial customers consuming >750 MWh pa connected to the HV network

Tariff Class	Tariff
Commercial	>750 MWh pa Commercial LV: Commercial customers consuming >750 MWh pa connected to the LV network
	<750 MWh pa Commercial: Commercial customers consuming <750 MWh pa
	Unmetered: <ul style="list-style-type: none"> <li>• Street lighting and similar consumption profiled unmetered supplies; &amp;</li> <li>• Traffic lights and similar unmetered 24 hour supplies.</li> </ul>
Domestic	Domestic

The number of tariff classes has been kept to a minimum, to avoid unnecessary transaction costs. In addition, customers have been grouped together on an economically efficient basis, recognising the material differences between network users arising from:

- The pattern and level of network usage (as between domestic and commercial customers, which have different consumption patterns and average consumption); and
- The nature of the plant or equipment required to provide the network access service (in the case of the Commercial HV tariff class, as these customers do not make use of the low voltage network or distribution substations).

#### ***4.3.1 Domestic Tariff Class***

The Domestic tariff class is composed of one tariff, the Domestic tariff, which applies to network users supplied at a connection point where:

- Total electricity consumption, per financial year, is less than 750 MWh; and
- The tariff is applicable for premises intended to be used for residential purposes, excluding serviced apartments, but including:
  - Electricity used on vacant land zoned for residential purposes; and
  - Living premises of retirement villages (must be separately metered).

#### ***4.3.2 Commercial Tariff Class***

The Commercial tariff class is made up of three different tariffs:

- Commercial customers consuming more than 750 MWh per annum connected to the LV network; and
- Commercial customers consuming less than 750 MWh per annum;
- Unmetered customers.

The >750 MWh pa Commercial LV tariff applies to network users supplied at a connection point where:

- Total electricity consumption, per financial year, is greater than 750 MWh; and
- Electricity is supplied at a voltage level defined as low voltage – nominally 230/400 V.

The <750 MWh pa Commercial tariff applies to network users supplied at a connection point where:

- Total electricity consumption, per financial year, is less than 750 MWh; and
- The tariff is applicable for premises intended to be used for non-residential purposes, including:
  - Electricity used on vacant land zoned for commercial purposes;
  - Temporary supply (ie. for building purposes);
  - Motels, hotels, serviced apartments and any form of temporary accommodation;
  - Shops, offices, warehouses and industrial/manufacturing plants;
  - Mining enterprises; and
  - Farms.

The Unmetered tariff applies to connection points that, with the agreement of Power Networks, are unmetered. In these circumstances, the consumption at the connection point is estimated.

### ***4.3.3 Commercial HV Tariff Class***

The Commercial HV tariff class is composed of one tariff, the >750 MWh pa Commercial HV tariff, which applies to network users supplied at a connection point where:

- Total electricity consumption, per financial year, is greater than 750 MWh; and
- Electricity is supplied at a voltage level of 11 kilovolts (kV) or higher.

### ***4.3.4 Generator Users***

Standard Control Network Tariffs do not apply to generator users, with the exception of the following.

The only instance when Standard Control Network Tariffs apply to customers with generation facilities is when the customer requests network capacity to be reserved for purposes such as standby supply.

In this case, the allocation to a tariff class will be made on the same basis as other customers; this being the extent and nature of consumption, and the nature of the connection to the network. The same Standard Control Network

Tariffs will apply as for other customers. The energy charge will be based on actual energy consumed over the period. However, the demand charge may apply to a demand schedule (as agreed to with the customer) in recognition that requested capacity will need to be made available to the customer even if no supply is taken.

## **5 Alternative Control Service Charges**

Alternative Control Services are classified as excluded network access services not subject to effective competition in the approved Network Service Classification. Therefore, in accordance with the Code, the Utilities Commission does not have a role in determining price controls or approving charges for Alternative Control Services.

The Code requires Power Networks to provide any excluded network access services to network users on fair and reasonable terms, and states that the Utilities Commission is to determine what may constitute fair and reasonable terms if the network provider and affected network users are unable to reach agreement on such terms.

### ***5.1 Alternative Control Services – Fee Based***

Fee Based Alternative Control Services are provided based on a set schedule of charges.

The 2014-15 Alternative Control Services Fee Based Charges, found at Appendix C, have been developed based on the following formula such that the price is equal to:

- The materials employed for the project multiplied by the incremental (above standard) cost of those materials; plus
- The labour involved for the project (in hours) multiplied by the hourly rate for that project.

### ***5.2 Alternative Control Services – Quoted***

Quoted Alternative Control Services are services for which their nature and scope cannot be known in advance irrespective of whether they are customer requested or triggered by an external event.

Quoted Services are therefore provided by Power Networks on a quoted basis using a consistent methodology, which ensures recovery of the material and labour costs of providing the service.

Network users are only charged the incremental cost of the work above the cost of the mandated Standard Control Service.

A list of the types of Quoted Alternative Control Services that Power Networks provide can be found at the Network Service Classification (Appendix A).

## **6 Excluded Network Services (Competition) Charges**

In accordance with the Code, the Utilities Commission does not have a role in determining price controls or approving charges for Excluded Network Services that are subject to effective competition.

The Code requires Power Networks to provide any excluded network access services to network users on fair and reasonable terms, and states that the Utilities Commission is to determine what may constitute fair and reasonable terms if the network provider and affected network users are unable to reach agreement on such terms.

These services are provided by Power Networks on a quoted basis. The provision of these services is also subject to effective competition in the Territory and therefore customers are able to select from a number of alternative service providers.

A list of the types of Excluded Network Services, which are subject to effective competition, that Power Networks provide can be found at the Network Service Classification (Appendix A).

## Appendix A – Network Service Classification

### Regulated network access services (Direct Control Services – Standard Control Services)

Service group	Activities description
Network service (mandated standard)	<p>Network services include:</p> <ul style="list-style-type: none"> <li>• planning, designing and constructing the electricity network;</li> <li>• maintaining and operating the electricity network; and</li> <li>• emergency response and administrative support;</li> </ul> <p>to the standards provided for in the Network Technical Code, and in accordance with good electricity industry practice.</p> <p>Network Services are services provided using the shared electricity network, to all users connected to the electricity network. They do not include Connection Services which make use of assets dedicated to the supply of a single network user.</p>
Unmetered supply (energy delivery) service	<p>Network services (energy delivery) provided to unmetered supplies such as street lights, traffic lights, advertising signs, CCTV cameras and similar applications where energy consumption may reasonably be estimated and it is not economic or practical to install, maintain and read a meter.</p>
Connection services (mandated standard)	<p>Connection services include:</p> <ul style="list-style-type: none"> <li>• commissioning of connection assets;</li> <li>• service connection;</li> <li>• installation inspection; and</li> <li>• operating and maintaining connection assets,</li> </ul> <p>to the standard provided for in the Network Technical Code, and in accordance with good electricity industry practice.</p> <p>Connection Services are provided at the request of a network user and are dedicated to the individual network user. Connection assets include all of the dedicated electrical equipment that is used to transfer electricity to (entry) or from (exit) the shared electricity network at the connection point.</p>

Service group	Activities description
Metering services (mandated standard)	<p>Metering services, including meter data services, provide the means by which the electricity that is transferred to or from a network user is measured at a connection point.</p> <p>Metering services include, but are not necessarily limited to:</p> <ul style="list-style-type: none"> <li>• provision, installation and commissioning of metering assets; and</li> <li>• periodic accuracy testing, maintenance and replacement of metering assets,</li> </ul> <p>to meet legislated accuracy requirements and conform to good electricity industry practice.</p> <p>Meter data services include by are not necessarily limited to:</p> <ul style="list-style-type: none"> <li>• meter reading, either locally or remotely;</li> <li>• collection, storage and management of metering data; and</li> <li>• routine transfer of data to participant billing systems,</li> </ul> <p>to meet legislated accuracy requirements and conform to good electricity industry practice.</p> <p>Where supply is unmetered, consumption is estimated at the connection point.</p>

**Excluded network access services not subject to effective competition (Direct Control Services – Alternative Control Services)**

Service group	Activities description
<b><u>Quoted services</u></b>	
Quoted network services	<p>Network services provided at the request of a network user with higher (or lower, where permissible) quality or reliability standards than are required under applicable legislation, codes or other regulatory instruments</p> <p>Quoted Network Services include above standard or non-standard services associated with:</p> <ul style="list-style-type: none"> <li>• planning, designing and constructing the electricity network;</li> <li>• maintaining and operating the electricity network;</li> <li>• emergency response and administrative support; and</li> <li>• other associated services,</li> </ul> <p>to the performance standard agreed with the network user.</p> <p>Under Quoted Network Services, network users are only charged the incremental cost of the work above the cost of the mandated standard Network Service.</p> <p>Quoted Network Services exclude above standard or non-standard Connection Services which make use of dedicated assets.</p>
Quoted connection services	Connection services provided at the request of a network user with higher (or lower, where permissible) quality or reliability

Service group	Activities description
	<p>standards than are required under applicable legislation, codes or other regulatory instruments</p> <p>Quoted connection services include above standard or non-standard services associated with:</p> <ul style="list-style-type: none"> <li>• commissioning of connection assets;</li> <li>• service connection;</li> <li>• installation inspection; and</li> <li>• operating and maintaining connection assets</li> </ul> <p>to the performance standard agreed with the network user.</p> <p>Quoted Connection Services also include:</p> <ul style="list-style-type: none"> <li>• supply abolishment; and</li> <li>• ancillary Connection Services.</li> </ul> <p>Associated services for which PWC Networks may seek payment from the user include, but are not necessarily limited to:</p> <ul style="list-style-type: none"> <li>• responding to enquiries in relation to the provision of the above standard or non-standard connection services;</li> <li>• provision of technical specifications in relation to the connection;</li> <li>• provision of duplicate or underground supply where requested by a network user; and</li> <li>• preliminary communications with potential or existing network user where more than 6 hours work is or is likely to be required.</li> </ul> <p>Under Quoted Connection Services, network users are only charged the incremental cost of the work above the cost of the mandated standard Connection Service.</p> <p>Connection Services are provided at the request of a network user and are dedicated to the individual network user.</p> <p>Connection assets include all of the dedicated electrical equipment that is used to transfer electricity to (entry) or from (exit) the shared electricity network at the connection point.</p>
Quoted metering services	<p>Metering services, including meter data services, provided at the request of a network user of a type that exceeds the normal requirements for the type of network user.</p> <p>Quoted metering services include, but are not necessarily limited to:</p> <ul style="list-style-type: none"> <li>• provision, installation and commissioning of additional or above standard or non-standard metering assets;</li> <li>• periodic accuracy testing of additional or above standard or non-standard metering assets; and</li> <li>• maintenance and replacement of additional or above standard or non-standard metering assets.</li> </ul> <p>Quoted meter data services include:</p> <ul style="list-style-type: none"> <li>• reading, either locally or remotely, of additional or above standard or non-standard meters provided at the request of the network user;</li> <li>• installing and maintaining communications for additional or above standard or non-standard remotely read meters; and</li> </ul>

Service group	Activities description
	<ul style="list-style-type: none"> <li>transfer of meter data to the meter data system and management of the stored meter data, for additional or above standard or non-standard meters.</li> </ul> <p>Quoted ancillary Metering Services include:</p> <ul style="list-style-type: none"> <li>non-standard read of a standard meter, either locally or remotely; and</li> <li>non-routine transfer of meter data to participant billing systems or network users.</li> </ul> <p>Under Quoted Metering Services, network users are only charged the incremental cost of the work above the cost of the mandated standard Metering Service.</p> <p>Several of the more commonly provided excluded metering services are subject to standard fees (Fee based services).</p>
Asset relocation, temporary disconnection and reconnection	Removal, relocation or other permanent or temporary change to PWC Network assets at the request of a network user.
Emergency recoverable works	Repairs to shared electricity network or network connections caused by a third party (for example, due to vehicle accident).
Services associated with temporary supply	<p>Services associated with temporary supply include:</p> <ul style="list-style-type: none"> <li>provision electric plant or stand-by generator for temporary supply at the request of a network user; and</li> <li>provision of temporary supplies at both low and high voltage at the request of a network user.</li> </ul>
Illegal connections and damage to network equipment	<p>Costs incurred by PWC Networks as a result of a network user not complying with relevant contractual obligations.</p> <p>Repair of equipment damaged by a network user or third party.</p>
Provision of non-standard street light assets	Provision, construction and maintenance of street light assets based on non-standard designs or new technology such as LED.
Wasted attendance	Additional costs incurred by PWC Networks where service provision could not be undertaken and/or completed as planned due to action or inaction of a network user or their agent.
Asset location and identification services	PWC Networks' identification of its assets, including location of buried cables, at the request of a network user.
High load transport escorts	Provision of high load transport escort, including administration costs.
Covering of low voltage mains	Insulation coverage of low voltage mains at the request of a network user or other person.
<b>Fee-based services</b>	
Fee-based metering services	<p>Fee-Based Metering service provided at the request of a network user include, but are not necessarily limited to:</p> <ul style="list-style-type: none"> <li>out of sequence (unscheduled) meter reading services;</li> <li>meter program changes;</li> <li>testing or inspection of metering assets;</li> <li>removal or relocation of metering assets;</li> <li>the exchange or replacement of metering assets;</li> </ul>

<b>Service group</b>	<b>Activities description</b>
	<ul style="list-style-type: none"> <li>• installation of prepayment meters; and</li> <li>• provision of a permanent three-phase service.</li> </ul> <p>The provision of less routine services is subject to quotation (Quoted Services).</p>
Street light services	Provision, construction and maintenance of street lighting assets.
Non-standard data services	Provision of non-standard data services of a routine nature.
Disconnection and reconnection	Providing temporary disconnection and reconnection of supply at a connection point at the request of a network user or market participant and in accordance with the terms of the Network Technical Code.
Fault response – not PWC Networks' equipment	Attendance in response to advice of a fault by a network user where the fault is not associated with PWC Networks' assets or metering equipment.
Installation of minor equipment to the network	<p>This includes but is not necessarily limited to:</p> <ul style="list-style-type: none"> <li>• installation of tiger tails on PWC Networks assets;</li> <li>• polylogger test equipment at the user's premises; and</li> <li>• rental cost of minor equipment.</li> </ul>
Travel costs	Where PWC Networks' personnel are required to attend rural locations more than 100kms from the relevant PWC Networks depot.

**Excluded network access services subject to effective competition**

<b>Service group</b>	<b>Activities description</b>
Equipment rental for non-network purposes	<p>Equipment rental charges may be but are not necessarily limited to the following:</p> <ul style="list-style-type: none"> <li>• for the attachment of communications services such as coaxial or fibre optic cables;</li> <li>• for pole attachments, ducts or conduits; and</li> <li>• for the use of tunnels or ducts by communications or other services.</li> </ul>
Investigation and testing services	Investigation and testing services requested by a network user.
Contestable networks engineering consulting services	Consulting services provided by PWC Networks to network users and third parties.

## Appendix B – 2014-15 Standard Control Network Tariffs

### Schedule A - All Regions 2014/15 INCLUDING GST **A - For High Voltage Connected Customers with consumption above 750 MWh per year**

Reference Service<sup>1</sup> Provided: Normal transmission and distribution of electricity consumed through customers' metering for customers supplied and metered at high voltage

	System Availability Charge	\$/kVA peak <sup>2</sup>	\$/kVA off peak <sup>2</sup>	¢/kWh peak <sup>2</sup>	¢/kWh off peak <sup>2</sup>
<b>System Availability Charge</b> Dollars per month per meter	\$705.448				
<b>Plus charges related to monthly demand</b>					
First 50 kVA per month		\$10.042	\$2.334		
Next 100 kVA per month		\$8.808	\$2.094		
Next 300 kVA per month		\$7.339	\$1.620		
Next 500 kVA per month		\$5.816	\$1.620		
Any further kVA per month		\$4.067	\$1.221		
<b>Plus charges related to energy metered</b>					
First 10,000 kWh per month				5.910	5.588
Next 20,000 kWh per month				4.484	3.978
Next 50,000 kWh per month				3.655	3.147
Next 100,000 kWh per month				3.087	2.564
Any further kWh per month				2.043	1.367

<sup>[1]</sup> Charges for increased or reduced service such as for higher reliability or for back-up supply to on-site generation are subject to negotiation.

<sup>[2]</sup> Peak and off-peak periods for demand and energy related charging rates will be as determined from time to time. The peak period rates currently apply to usage between 6.00 am and 6.00 pm on any day. Off-peak period rates apply at other times.

### Schedule B - All Regions 2014/15 INCLUDING GST **B - For Low Voltage Connected Customers with consumption above 750 MWh per year**

Reference Service<sup>1</sup> Provided: Normal transmission and distribution of electricity consumed through customers' metering for customers supplied and metered at low voltage

	System Availability Charge	\$/kVA peak <sup>2</sup>	\$/kVA off peak <sup>2</sup>	¢/kWh peak <sup>2</sup>	¢/kWh off peak <sup>2</sup>
<b>System Availability Charge</b> Dollars per month per meter	\$705.448				
<b>Plus charges related to monthly demand</b>					
First 50 kVA per month		\$10.042	\$2.334		
Next 100 kVA per month		\$8.808	\$2.094		
Next 300 kVA per month		\$7.339	\$1.620		
Next 500 kVA per month		\$5.816	\$1.620		
Any further kVA per month		\$4.067	\$1.221		
<b>Plus charges related to energy metered</b>					
First 10,000 kWh per month				5.910	5.588
Next 20,000 kWh per month				4.484	3.978
Next 50,000 kWh per month				3.655	3.147
Next 100,000 kWh per month				3.087	2.564
Any further kWh per month				2.043	1.367

<sup>[1]</sup> Charges for increased or reduced service such as for higher reliability or for back-up supply to on-site generation are subject to negotiation.

<sup>[2]</sup> Peak and off-peak periods for demand and energy related charging rates will be as determined from time to time. The peak period rates currently apply to usage between 6.00 am and 6.00 pm on any day. Off-peak period rates apply at other times.

## Schedule C - All Regions 2014/15

INCLUDING GST

### C - For Customers with consumption below 750 MWh per year

Reference Service<sup>1</sup> Provided: Normal transmission and distribution of electricity consumed through customers' connection.

<b>System Availability Charge</b>	
Cents per day per meter - Domestic	33.310
Cents per day per meter - Commercial	58.134
<b>Plus charges related to energy metered</b>	<b>¢/kWh anytime</b>
<b>Domestic</b>	
First 500 kWh per month	11.484
Next 500 kWh per month	11.484
Energy used above 1,000 kWh per month (pro-rated per billing period)	9.310
<b>Commercial</b>	
First 1,000 kWh per month	11.484
Next 1,000 kWh per month	9.310
Energy used above 2,000 kWh per month (pro-rated per billing period)	9.310
<b>Unmetered</b>	
Street lighting and similar consumption profiled unmetered supplies	6.587
Traffic lights and similar unmetered 24 hour supplies	6.587

<sup>[1]</sup> Charges for increased or reduced service such as for higher reliability or for back-up supply to on-site generation are subject to negotiation.

## Appendix C – 2014-15 Alternative Control Services Fee Based Charges

2014-15 Fee Based Alternative Control Service Charges			
Service	After Hours Charge? <sup>1</sup>	Service Description	2014-15 Charge Incl. GST
Re-Connection (CT)	No	Reconnection after failure to pay (CT Meter) - Business Hours	\$160.60
Re-Connection (CT)	Yes	Reconnection after failure to pay (CT Meter) - After Hours	\$205.70
Re-Connection (No CT)	No	Reconnection after failure to pay (No CT Meter) - Business Hours	\$53.53
Re-Connection (No CT)	Yes	Reconnection after failure to pay (No CT Meter) - After Hours	\$68.57
Additional Crew per person - per hour	No	Where additional crew is required at a service call for health, safety or security reasons - Business Hours	\$160.60
Additional Crew per person - per hour	Yes	Where additional crew is required at a service call for health, safety or security reasons - After Hours	\$205.70
Attending Loss of Supply	No	Where Power Networks attends a location but concludes that it is the customer's installation that is at fault - Business Hours	\$240.90
Attending Loss of Supply	Yes	Where Power Networks attends a location but concludes that it is the customer's installation that is at fault - After Hours	\$308.55
Exchange Or Replace Meter (CT)	No	Exchange of one CT meter for another CT meter at the customer's request - Business Hours	\$321.20
Exchange Or Replace Meter (CT)	Yes	Exchange of one CT meter for another CT meter at the customer's request - After Hours	\$411.40
Exchange or Replace a Meter (No CT & Three Phase)	No	Exchange of one No CT & Three Phase meter for another No CT & Three Phase meter at the customer's request - Business Hours	\$240.90
Exchange Or Replace Meter (No CT & Three Phase)	Yes	Exchange of one No CT & Three Phase meter for another No CT & Three Phase meter at the customer's request - After Hours	\$308.55
Exchange Or Replace Meter (No CT & Single Phase)	No	Exchange of one No CT & Single Phase meter for another No CT & Single Phase meter at the customer's request - Business Hours	\$240.90
Exchange Or Replace Meter (No CT & Single Phase)	Yes	Exchange of one No CT & Single Phase meter for another No CT & Single Phase meter at the customer's request - After Hours	\$308.55
General Meter Inspection (CT and No CT)	No	General metering inspection is required to check a reported or suspected fault, undertaken at the customer or retailer's request. This charge only applies if no fault is found with the meter - Business Hours only	\$120.45
Meter Program Change (CT and No CT)	No	Changes to tariff that requires meter reprogramming at customer's request - Business Hours only	\$120.45
Photovoltaic (PV) Installation Charge (Single Phase)	No	Supply and install Single Phase PV meter at customer's request - Business Hours only	\$512.38

<b>2014-15 Fee Based Alternative Control Service Charges</b>			
<b>Service</b>	<b>After Hours Charge?<sup>1</sup></b>	<b>Service Description</b>	<b>2014-15 Charge Incl. GST</b>
Photovoltaic (PV) Installation Charge (Three Phase)	No	Supply and install Three Phase PV meter at customer's request - Business Hours only	\$715.76
Pillar Box, Pit or Pole Top (CT and No CT)	No	De-energisation by a physical disconnection of the service mains at the connection to the network - Business Hours only	\$321.20
Prepayment Meter Installation	No	Installation of Prepayment Meter at customer or Retailer's request - Business Hours only	\$391.60
Provision of a Permanent Three Phase Service	No	Provision of a permanent three phase service at the customer's request (if single phase only is determined as necessary) - Business Hours only	\$516.50
Relocation of Meter (CT and No CT)	No	Relocation of meter after customer has relocated meter panel. This service is undertaken at the customer or retailer's request - Business Hours only	\$160.60
Remove Fuse (CT)	No	De-energisation at the fuse or meter (CT Meter) - Business Hours only	\$160.60
Remove Fuse (No CT)	No	De-energisation at the fuse or meter (No CT Meter) - Business Hours only	\$53.53
Remove Meter (CT and No CT)	No	Permanent removal of connection point (meter) from meter panel - Business Hours only	\$120.45
Replacement of a prepayment meter due to tampering or damage by a customer	No	Replacement of prepayment meter due to tampering or damage by a customer - Business Hours only	\$528.60
Replacement of meter due to tampering or damage by a customer (Three Phase)	No	Replacement of Three Phase meter due to tampering or damage by a customer - Business Hours only	\$412.60
Replacement of meter due to tampering or damage by a customer (Single Phase)	No	Replacement of Single Phase meter due to tampering or damage by a customer - Business Hours only	\$297.60
Service Establishment - New Infrastructure	No	Connection of supply from network to supply point (meter panel); and the installation of metering at supply point (meter panel) - Business Hours	\$321.20
Service Establishment - New Infrastructure	Yes	Connection of supply from network to supply point (meter panel); and the installation of metering at supply point (meter panel) - After Hours	\$411.40
Special Meter Read	No	Reading of meter at customer's request - Business Hours only	\$28.11
Special Meter Test - Single Phase (CT and No CT)	No	Testing of meter for single phase supply - Business Hours only	\$160.60
Special Meter Test - Three Phase (CT and No CT)	No	Testing of meter for three phase supply - Business Hours only	\$240.90
Tamper Meter Inspection (CT)	No	Inspection is required where supply or equipment tampering is suspected (CT Meter) - Business Hours only	\$240.90
Tamper Meter Inspection (No CT)	No	Inspection is required where supply or equipment tampering is suspected (No CT Meter) - Business Hours only	\$160.60

<b>2014-15 Fee Based Alternative Control Service Charges</b>			
<b>Service</b>	<b>After Hours Charge?<sup>1</sup></b>	<b>Service Description</b>	<b>2014-15 Charge Incl. GST</b>
Temporary Disconnection - Low Voltage - No Dismantling (Overhead)	No	Temporary disconnection and reconnection of supply, with no dismantling of service required - Business Hours	\$481.80
Temporary Disconnection - Low Voltage - No Dismantling (Overhead)	Yes	Temporary disconnection and reconnection of supply, with no dismantling of service required - After Hours	\$617.10
Installation of Minor Apparatus	No	Installation of tiger tails, polyloggers and other minor equipment - Business Hours only	\$722.70
Rental of Minor Equipment (daily charge)	No	Rental cost per day for minor equipment (e.g. tiger tails)	\$1.37
Meter Data Processing Services - Higher Standard (Previous Year)	No	Collection, processing and transfer of higher standard energy data (from the previous year) for customers than would otherwise be provided - retailer requested - Business Hours only	\$160.60
Meter Data Processing Services - Higher Standard (Archive Data)	No	Collection, processing and transfer of higher standard energy data (archive data i.e. any year other than the previous year) for customers than would otherwise be provided - retailer requested - Business Hours only	\$321.20
Provision of Standard Data	No	Provision of up to 12 months of old billing data (standard) or load profiles (where available) to customers or retailers - Business Hours only	\$80.30
Streetlight Repairs and Maintenance <sup>2</sup> (LW 1-100)	No	Annual repairs & maintenance charge per streetlight of streetlights within the 1-100 light wattage category	\$108.35
Streetlight Repairs and Maintenance <sup>2</sup> (LW 101-200)	No	Annual repairs & maintenance charge per streetlight of streetlights within the 101-200 light wattage category	\$118.66
Streetlight Repairs and Maintenance <sup>2</sup> (LW 201-300)	No	Annual repairs & maintenance charge per streetlight of streetlights within the 201-300 light wattage category	\$138.30
Streetlight Repairs and Maintenance <sup>2</sup> (LW 301-400)	No	Annual repairs & maintenance charge per streetlight of streetlights within the 301-400 light wattage category	\$148.32
Streetlight Repairs and Maintenance <sup>2</sup> (LW 1000)	No	Annual repairs & maintenance charge per streetlight of 1000 watt streetlights	\$174.54
Travel Costs - Rural	No	Labour cost for travel 100+km from depot - Business Hours	\$321.20
Travel Costs - Rural	Yes	Labour cost for travel 100+km from depot - After Hours	\$411.40

<sup>1</sup> **Business Hours:** Monday to Friday - 6am to 6pm

**After Hours:** Monday to Friday - 6pm to 6am and Saturday

Please note that After Hour services are only available to the customer when Power Networks has the resources available to complete the work.

Please note that work completed on a Sunday or a Public Holiday may attract additional fees.

<sup>2</sup> The Streetlight Repairs and Maintenance charge will be implemented from 1 October 2014 and, therefore, a pro-rated rate will apply for 2014-15.