ActewAGL Distribution
Statement of Tariffs and Tariff Classes
2011/12

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Overview

- ActewAGL Distribution offers customers a range of network tariff options across 3 tariff classes – residential, commercial low voltage and high voltage. Customers are able to choose the tariff which best suits their needs, subject to some eligibility requirements as set out in this proposal.
- As noted by the Australian Energy Regulator (AER) in the *Australian Capital Territory Distribution Determination 2009/10 to 2013/14: Final Decision*, over the course of the 2009-14 regulatory period ActewAGL Distribution will significantly increase investment on its network.
- ActewAGL Distribution's distribution use of system (DUOS) charges for 2011/12 are 0.29 cents per kWh, or 5.7 per cent, higher on average than in 2010/11.
- In addition, ActewAGL Distribution's 2011/12 network tariffs are influenced also by significant increases in charges for transmission services. Transmission use of system (TUOS) charges are 0.21 cents per kWh, or 16.6 per cent, higher on average than in 2010/11.
- Charges for miscellaneous services for 2011/12 are around 3.1 per cent higher than in 2010/11.
- Charges for metering services are subject to a separate regulatory cap. The metering charges for 2011/12 are 0.3 per cent lower on average than in 2010/11.
- ActewAGL Distribution estimates that the 2011/12 network tariffs and metering charges will result in a $0.77 per week increase (including GST) in the average residential electricity bill[1] and a $4.10 per week increase (including GST) for the average commercial customer[2].

[1] For a customer on the residential basic network charge consuming 7000 kWh per annum.
[2] For a customer on the general network charge consuming 30 MWh per annum.

1. Introduction

1.1 Purpose and scope of this statement of tariffs and tariff classes

ActewAGL Distribution has prepared this statement of tariffs and tariff classes in accordance with the requirements in Chapter 11 of the *National Electricity Amendment Rules (*the transitional *Rules*). The transitional *Rules* (clause 6.18.9) require ActewAGL to maintain on its website:

- a statement of ActewAGL's *tariff classes*[3] and tariffs that are applicable to each class
- for each tariff within a tariff class, the *charging parameters*[4] and the elements of service to which they relate ; and
- a statement of expected price trends, giving an indication of how ActewAGL expects prices to change over the period to June 2014, and the reasons for those expected changes.

1.2 Background

The Australian Energy Regulator (AER) is responsible for the economic regulation of distribution services provided by ActewAGL Distribution. The transitional *Rules* for the 2009-14 regulatory period require the AER to determine the maximum allowed average revenue (MAAR) for ActewAGL Distribution's standard control services and a revenue cap for alternative control (metering) services. The principles and requirements for translating the revenue requirements into schedules of prices are provided in Part I of the transitional *Rules*.

Following a detailed review process, commencing with ActewAGL Distribution's submission of its regulatory proposal in June 2008, the AER released the *Australian Capital Territory Distribution Determination 2009/10 to 2013/14: Final Decision* (the final decision) on 30 April 2009. The AER summarises the outcomes from the regulatory review as follows:

> Over the course of the next regulatory control period, ActewAGL will significantly increase investment on its network, which will result in higher prices for electricity consumers in the ACT. Higher prices will be largely driven by significant investment in four major capital projects. These projects include construction of two new zone substations, which are the first to be built in the ACT since 1994, augmentation of a third substation and construction of new assets to improve the security of electricity supply to the ACT. In addition, ActewAGL has already undertaken significant capital works to reinforce and replace a large number of unsafe poles, and these costs will now flow through to consumers. While consumers within the ACT will face higher charges as a result of this investment, they will also benefit from a more reliable and secure network.[5]

[3] A *tariff class* is defined in chapter 10 of the *National Electricity Rules* as "a class of customers for one or more direct control services who are subject to a particular tariff or particular tariffs".
[4] Charging parameters are defined as "the constituent elements of a tariff" in chapter 10 of the *National Electricity Rules*.
[5] AER 2009, *Australian Capital Territory Distribution Determination 2009/10 to 2013/14: Final Decision,* April, p. viii

The AER also notes that, in addition to higher capital investment, increases in network charges are also being driven by the introduction of the feed–in tariff scheme, which imposes a cost on ActewAGL Distribution.[6]

In response to the AER's Final Decision, ActewAGL Distribution submitted a pricing proposal to the AER on 29 April 2011 and an amended pricing proposal on 20 May 2011[7]. The AER amended and approved ActewAGL's May pricing proposal on 3 June 2011. The Independent Competition and Regulatory Commission advised ActewAGL that it had approved the required variation to ActewAGL Distribution's standard customer contract on 22 June 2011.

1.3 Structure of the statement of tariffs and tariff classes

ActewAGL Distribution's tariff structure is set out in chapter 2. The chapter includes details on the components and rationale for each of the tariffs.

ActewAGL Distribution's network tariffs and charges for 2011/12 are presented in chapter 3. The chapter includes discussion of the changes relative to 2010/11.

ActewAGL Distribution's charges for miscellaneous services for 2011/12 are presented in chapter 3. The chapter includes discussion of the changes relative to 2010/11.

ActewAGL Distribution's charges for metering services for 2011/12 and the changes relative to 2010/11 are presented and explained in chapter 3.

The expected pricing trends over the regulatory control period (to June 2014) are provided in chapter 4.

[6] AER 2009, *Australian Capital Territory Distribution Determination 2009/10 to 2013/14: Final Decision,* April, p. viii
[7] http://www.aer.gov.au/content/index.phtml/itemId/745937

2. The structure of ActewAGL Distribution's network tariffs

2.1 Network tariff structure

ActewAGL Distribution offers network tariffs in three *tariff classes*:

- Residential;
- Commercial low voltage (LV); and,
- High voltage (HV).

Within these three tariff classes, ActewAGL Distribution has developed a suite of network tariffs that effectively meet the diverse needs of its customer base, encourage efficient use of the network and signal the costs of future network expansion. Residential customers are offered a choice of four network tariff options plus two controlled load off-peak options and an embedded renewable generation tariff option. Commercial LV customers are offered four main tariff options. Commercial customers on the general network charge also have access to the controlled load off-peak tariff options and the embedded renewable generation tariff option on a similar basis to customers in the residential class. Commercial HV customers are offered four tariff options. Customers are able to choose the option which best suits their needs, subject to some eligibility criteria as set out in Tables 2.1 to 2.3 below.

The network tariffs comprise different combinations of the following *charging parameters*:

- Network access charges – apply per customer for residential consumers and per connection point for commercial customers. They involve a fixed daily charge and do not vary with electricity consumption or capacity;
- Energy charges – apply to each unit of electricity consumed. The c/kWh rate may vary with the level of consumption (with higher rates applying above certain thresholds) and the time of use (with lower rates applying at off-peak periods);
- Maximum demand charges – apply per connection point, for some commercial tariffs. They involve a charge per unit of maximum demand (in c/kVA/day). The maximum demand is derived from the highest demand calculated over a 30-minute interval during the billing period.
- Capacity charges – apply on the same basis as the maximum demand charges and apply to the maximum demand recorded over the previous 12 months.

The tariffs and charging parameters for each tariff class are shown in the following Tables (2.1 to 2.3). The tables also include an explanation of the purpose of each tariff and the customers to which each tariff may apply.

2.1.1 Network tariffs for residential customers

ActewAGL Distribution's residential network tariff structure is shown in Table 2-1. The residential time-of-use (TOU), residential 5000 and residential with heat pump tariffs are

refinements of the residential basic tariff to reflect customer load profiles. The residential TOU tariff provides an opportunity and incentive for customers with the necessary metering capability to respond to price signals at different times of the day. The residential 5000 and residential with heat pump tariffs involve a higher connection charge and an inclining block structure with initially lower energy charges, and higher energy charges (per kWh) applying above certain thresholds. These tariffs more accurately tailor costs to the load profile of these customers. The off-peak tariff options can be used in conjunction with the residential basic tariff and the residential time-of-use tariff.

Table 2-1 Network tariff structure - residential

Tariff	*Charging parameters*	*Explanation*
Residential basic network	Network access charge (c/day/customer) Energy charge (c/kWh)	The residential basic network tariff is available to installations at private dwellings, excluding serviced apartments, but including: • Living quarters for members and staff of religious orders; • Living quarters on farms; • Charitable homes; • Retirement villages; • Residential sections of nursing homes and hospitals; • Churches, buildings or premises which are primarily used for public worship; and • Approved caravan sites. The energy charge does not vary with the level of consumption and the time of day. However, customers on this tariff are eligible for the off-peak tariff.
Residential time-of-use (TOU) network[8]	Network access charge (c/day/customer) Energy at max times, ie 7am to 9am and 5pm to 8pm every day (c/kWh) Energy at mid times, ie 9am to 5pm and 8pm to 10pm every day (c/kWh) Energy at economy times, ie all other times (c/kWh)	This tariff is available to residential customers (as defined above) with a meter able to be read as a time-of-use meter and to electric vehicle recharge facilities on residential premises. The energy charges relate to the supply of network services at various times. Higher rates apply at max or peak times to encourage users to shift their load to off-peak periods.
Residential 5000 network	Network access charge (c/day/customer) Energy for the first 60 kWh/day (c/kWh) Energy above 60 kWh/day (c/kWh)	This tariff is designed for customers who have continuous loads, such as electric hot water systems, and consume over 5,000 kWh per annum. The energy charges relate to the supply of network services above and below certain volume thresholds. An inclining block structure applies (ie higher energy rates for the second block of energy). The lower energy rate is limited to consumption up to 60 kWh per day.
Residential with heat pump	Network access charge (c/day/customer) Energy for the first 165 kWh/day (c/kWh) Energy above 165 kWh (c/kWh)	This tariff is available only to customers with a reverse cycle air conditioner. An inclining block structure applies (ie higher energy rates for the second block of energy).

[8] All times for metering are Eastern Standard Time.

Off-peak (1) night network	Energy at controlled times, ie between 10 pm and 7 am (c/kWh)	The off-peak (1) night charge is available only to customers utilising a controlled load element, and taking all other energy at residential basic network, residential time-of-use network or general network rates. These charges are not available where the customer's meter is read as an interval meter. The off-peak (1) night charge is applicable to permanent heat (or cold) storage installations; electric vehicle recharge and CNG vehicle gas compression installations. The design and rating must be acceptable to ActewAGL. The installation must use most energy during restricted times, but may be boosted at the principal charge at other times. The off-peak(1) night network energy rate applies to the supply of network services at controlled times, for 6 to 8 hours per day between the hours of 10 pm and 7 am.
Off-peak (3) day and night network	Energy at controlled times, ie between 10 pm and 7 am and 9 am and 5 pm (c/kWh)	The off-peak (3) day and night charge is available only to customers utilising a controlled load element, and taking all other energy at residential basic network, residential time-of-use network or general network rates. These charges are not available where the customer's meter is read as an interval meter. The off-peak (3) day and night charge is applicable to permanent heat (or cold) storage installations. The design and rating must be acceptable to ActewAGL. The off-peak (3) energy rate applies to power supplied for up to 13 hours per day between 10 pm and 7 am and again between 9 am and 5 pm.
Renewable generation	Energy charges (c/kWh)	This tariff applies to customers with grid connected solar or wind energy generation systems. It relates only to the energy that the consumer has produced. Different arrangements apply depending on whether the customer is participating in the ACT feed-in tariff scheme.

There are no changes from 2010/11 to the residential network tariff structure other than to allow electric vehicle recharge facilities access to the Residential TOU tariff. Since October, 2010, new premises connecting to the network have been placed on the Residential TOU tariff by default. Customers may continue to select the residential tariff that suits them.

2.1.2 Network tariffs for low voltage commercial customers

ActewAGL Distribution's commercial low voltage network tariff structure is shown in Table 2-2. ActewAGL Distribution sets different tariffs for low voltage commercial and high voltage commercial customers recognising the different costs associated with supplying each group. Within the commercial LV tariff class, a range of tariff options has been developed to meet the diverse needs of commercial customers and to accommodate their differing load profiles and ability to respond to price signals. Of the four main options offered to commercial LV customers all but the general network tariff involve time-of-use charges. The general tariff does, however, involve an inclining block tariff structure with higher energy charges (c/kWh) applying above certain thresholds. The off-peak (3) day and night network tariff option is also available to customers on the general network tariff.

Two of the commercial LV options involve capacity and/or maximum demand charges, in conjunction with time-of-use charges. Customers able to improve their load factor[9] have an incentive to choose a tariff with a demand or capacity charge, and reduce their energy bills. Customers on the general or general time-of-use network charges can move to the demand charges and lower their network costs if they have a sufficiently large load (for the cost savings to offset the higher cost of metering) and a reasonable load profile.

Table 2-2 Network tariff structure - commercial low voltage

Tariff	*Charging parameters*	*Explanation*
General network	Network access charge (c/day/customer) Energy for the first 330 kWh/day (c/kWh) Energy above 330 kWh/day (c/kWh)	This tariff is available to all customers. The tariff is most suitable for small commercial consumers operating in regular business hours or larger customers with poorer load factors (peaky loads). This tariff may be used in conjunction with the off-peak tariffs.
General TOU network	Network access charge (c/day/customer) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	This tariff is particularly suitable for small commercial customers, such as bakers, freezer installations and irrigators, with discretionary or relatively large off-peak loads. The energy charges relate to supply of network services at different times.
LV TOU kVA demand network	Network access charge (c/day/connection point). Maximum demand (c/kVA/day) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	This tariff is appropriate for customers with an average or stable commercial load. The maximum demand charge is designed to encourage consumers to manage their demand on the network. The energy charges relate to supply of energy at different times, with lower rates in off-peak times reflecting the availability of capacity and encouraging consumers to shift their load from peak to off-peak times to utilise the available capacity.
LV TOU capacity network	Network access charge (c/day/connection point) Maximum demand (in billing period) (c/kVA/day) Capacity (max demand in last year) (c/kVA/day) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	This tariff is mandatory for low voltage customers with embedded generation but it may be an attractive option for other low voltage customers with stable loads. The tariff provides an incentive for customers with embedded generation to manage their output and their down-times (eg for servicing) so as to minimise their demand on the network. The demand charge is applied to the maximum demand in the billing period, while the capacity charge is applied to the maximum demand in the previous 12 months.
Streetlighting	Network access charge (c/day/customer) Energy at any time (c/kWh)	This tariff applies to the night-time lighting of streets and public ways and places
Small unmetered loads	Network access charge (c/day/customer) Energy at any time (c/kWh)	This tariff applies to eligible installations as determined by ActewAGL, including: • telephone boxes

[9] The load factor is the actual energy consumed relative to the energy the customer would have consumed if it had consumed at its maximum rate of consumption for the full period.

		• telecommunication devices • other, as determined by the National Metrology Coordinator. Energy charges are calculated based on the assessed rating of the load and the charge period.
Internal (Obsolete)	Network access charge (c/day/customer) Energy at any time (c/kWh)	This tariff applies only to ActewAGL Distribution sites and fully recovers the economic costs of supply. It is now to be set at the rate of the first step in the general network tariff.

There have been no changes the tariff structure of non-residential tariffs from 2010/11. Since October 2010, new premises connected to the network have been placed on the General Time of Use network charge by default. Consumers may continue to select their most appropriate tariff.

2.1.3 Network tariffs for high voltage customers

ActewAGL Distribution's high voltage network tariff structure is shown in Table 2-3. To qualify for the high voltage demand network charges, consumers must take their energy at high voltage (nominal voltage not less than 11 kV) and make a capital contribution towards their connection assets and transformers. High voltage consumers have the option of owning and operating their own high voltage assets.

Table 2-3 Network tariff structure - high voltage

Tariff	*Charging parameters*	*Explanation*
HV TOU Demand Network (111)	Network access charge (c/day/connection point) Max demand (in billing period) (c/kVA/day) Capacity (max demand in past year) (c/kVA/day) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	This tariff is appropriate for large customers taking supply at high voltage (11kV or 22 kV) with a low voltage network assets owned and maintained by ActewAGL.. ActewAGL also owns and maintains the high voltage assets. The energy charges relate to supply of network services at different times, with lower rates in off-peak times. The demand charge is applied to the maximum demand in the billing period, while the capacity charge is applied to the maximum demand in the previous 12 months.
HV TOU Demand Network – Customer HV (112)	Network access charge (c/day/connection point) Max demand (in billing period) (c/kVA/day) Capacity (max demand in past year) (c/kVA/day) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	This tariff is appropriate for large customers taking supply at high voltage (11kV or 22kV) with a low voltage network owned and maintained by ActewAGL, where the customer owns and is responsible for the maintenance and repair of its high voltage assets (including transformers and switch gear).
HV TOU Demand Network – Customer LV (121)	Network access charge (c/day/connection point) Max demand (in billing period)	This network charge is appropriate for large customers taking supply at high voltage (11kV or 22 kV) where the customer owns and is responsible for their own low voltage network.

	(c/kVA/day) Capacity (max demand in past year) (c/kVA/day) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	ActewAGL owns and maintains the high voltage assets. The network access charge relates to the connection services provided to the customer including provision of the current transformer necessary to meter these large loads. The energy charges relate to supply of network services at different times, with lower rates in off-peak times reflecting the relatively low costs of off-peak supply.
HV TOU Demand Network – Customer HV and LV (122)	Network access charge (c/day/connection point) Max demand (in billing period) (c/kVA/day) Capacity (max demand in past year) (c/kVA/day) Energy at business times (c/kWh) Energy at evening times (c/kWh) Energy at off-peak times (c/kWh)	This network charge is appropriate for large customers taking supply at high voltage where the customer owns and is responsible for their own low voltage network and where the customer owns and is responsible for the maintenance and repair of its high voltage assets (including transformers and switch gear).

There are no changes from 2010/11 to the low voltage commercial network tariff structure.

2.1.4 Miscellaneous service charges and fees

In addition to the network tariffs set out above, ActewAGL Distribution offers a range of miscellaneous services and charges for each service. The structure of charges varies, depending on the type of service. Some services are charged on a per visit basis, others per installation or per test. The charges for miscellaneous services are set on a cost reflective basis. For example, separate rates apply for temporary connections depending on whether they relate to an overhead connection, standard underground or free-standing underground, as these will involve different costs.

ActewAGL Distribution also provides some miscellaneous services as part of its alternative control (metering) services. These include meter tests, installation of interval meters at a customer's request, and special meter reads.

2.2 ActewAGL Distribution's metering charges

ActewAGL Distribution's schedule of metering charges comprises daily charges for the provision of each of five different types of metering services and charges for special meter reads. The schedule also includes a charge for the installation of interval meters other than in the normal course of replacement, at the customer's request or to facilitate the installation of a renewable energy generator. There have been no changes to the structure of the metering charges since 2010/11.

3. ActewAGL Distribution's 2011/12 Charges

3.1 Network Charges

ActewAGL's network charges are made up of distribution charges and transmission charges. The distribution charges recover the cost of ActewAGL's electricity distribution service within the ACT. The transmission charges recover TransGrid's charges to ActewAGL for the delivery of energy to the ACT. The AER regulates both ActewAGL's distribution charges and TransGrid's transmission charges.

ActewAGL Distribution is required to provide tariffs designed to pass on to customers the charges it will incur for transmission services. The amount passed on to customers is not to exceed the estimated amount of transmission charges for each year adjusted for over or under recovery in the previous regulatory year.

Table 3-1 shows the distribution, transmission and network charges for 2011/12, excluding GST.

Table 3-1 ActewAGL Distribution Network Charges for 2011/12 (excluding GST)

Code	Description	Unit	Distribution Charges 2011/12	Transmission Charges 2011/12	Network Charges 2011/12
Residential tariffs					
010	**Residential Basic Network**				
	Network access charge	cents/day	15.25	0.00	15.25
	Energy consumption	cents/kWh	4.933	1.377	6.310
015	**Residential TOU Network**				
	Network access charge	cents/day	15.25	0.00	15.25
	Energy consumption at max times	cents/kWh	7.461	1.719	9.180
	Energy consumption at mid times	cents/kWh	3.694	1.376	5.070
	Energy consumption at economy times	cents/kWh	2.600	1.140	3.740
020	**Residential 5000 Network**				
	Network access charge	cents/day	36.75	0.00	36.75
	Energy consumption for the first 60 kWh per day	cents/kWh	3.353	1.377	4.730
	Energy consumption above 60 kWh per day	cents/kWh	4.933	1.377	6.310
030	**Residential with Heat Pump Network**				
	Network access charge	cents/day	79.95	0.00	79.95
	Energy consumption for the first 165 kWh per day	cents/kWh	1.863	1.377	3.240
	Energy consumption above 165 kWh per day	cents/kWh	4.933	1.377	6.310
060	**Off-Peak (1) Night Network**				
	Energy consumption	cents/kWh	0.350	1.010	1.360
070	**Off-Peak (3) Day & Night Network**				
	Energy consumption	cents/kWh	0.830	1.010	1.840
	Renewable Energy Generation				
	Energy consumption	cents/kWh	0.000	0.000	0.000
Commercial low voltage tariffs					
040	**General Network**				
	Network access charge	cents/day	30.71	0.00	30.71
	Energy consumption for the first 330 kWh per day	cents/kWh	7.850	1.790	9.640
	Energy consumption above 330 kWh per day	cents/kWh	10.749	1.931	12.680
135	**Small Unmetered Loads Network**				
	Network access charge	cents/day	24.80	0.00	24.80
	Energy consumption	cents/kWh	9.331	1.549	10.880
141	**Internal Network (Obsolete)**				
	Network access charge	cents/day	30.71	0.00	30.71
	Energy consumption	cents/kWh	7.850	1.790	9.640
080	**Streetlighting Network**				
	Network access charge	cents/day	30.00	0.00	30.00
	Energy consumption	cents/kWh	5.097	1.343	6.440
090	**General TOU Network**				
	Network access charge	cents/day	30.71	0.00	30.71
	Energy consumption at business times	cents/kWh	13.152	2.138	15.290
	Energy consumption at evening times	cents/kWh	6.371	1.379	7.750
	Energy consumption at off-peak times	cents/kWh	2.337	0.993	3.330
Low voltage time of use demand network					
101	**LV TOU kVA Demand Network**				
	Network access charge per connection point	cents/day	36.00	0.00	36.00
	Maximum demand charge	c/kVA/day	34.81	5.59	40.40
	Energy consumption at business times	cents/kWh	3.660	1.140	4.800
	Energy consumption at evening times	cents/kWh	2.195	1.095	3.290
	Energy consumption at off-peak times	cents/kWh	0.800	0.890	1.690

Code	Description	Unit	Distribution Charges 2011/12	Transmission Charges 2011/12	Network Charges 2011/12
103	**LV TOU Capacity Network**				
	Network access charge per connection point	cents/day	36.00	0.00	36.00
	Maximum demand charge	c/kVA/day	16.03	2.57	18.60
	Capacity charge	c/kVA/day	16.03	2.57	18.60
	Energy consumption at business times	cents/kWh	3.660	1.140	4.800
	Energy consumption at evening times	cents/kWh	2.195	1.095	3.290
	Energy consumption at off-peak times	cents/kWh	0.800	0.890	1.690
High voltage tariffs					
High voltage time of use demand network with ActewAGL low voltage network					
111	**HV TOU Demand Network**				
	Network access charge per connection point	$/day	13.00	0.00	13.00
	Maximum demand charge	c/kVA/day	13.91	2.59	16.50
	Capacity charge	c/kVA/day	13.91	2.59	16.50
	Energy consumption at business times	cents/kWh	3.071	1.089	4.160
	Energy consumption at evening times	cents/kWh	1.780	1.040	2.820
	Energy consumption at off-peak times	cents/kWh	0.649	0.841	1.490
112	**HV TOU Demand Network – Customer HV**				
	Network access charge per connection point	$/day	13.00	0.00	13.00
	Maximum demand charge	c/kVA/day	12.91	2.59	15.50
	Capacity charge	c/kVA/day	12.91	2.59	15.50
	Energy consumption at business times	cents/kWh	3.071	1.089	4.160
	Energy consumption at evening times	cents/kWh	1.780	1.040	2.820
	Energy consumption at off-peak times	cents/kWh	0.649	0.841	1.490
High voltage time of use demand network without ActewAGL low voltage network					
121	**HV TOU Demand Network – Customer LV**				
	Network access charge per connection point	$/day	13.00	0.00	13.00
	Maximum demand charge	c/kVA/day	13.91	2.59	16.50
	Capacity charge	c/kVA/day	13.91	2.59	16.50
	Energy consumption at business times	cents/kWh	2.661	1.089	3.750
	Energy consumption at evening times	cents/kWh	1.420	1.040	2.460
	Energy consumption at off-peak times	cents/kWh	0.499	0.841	1.340
122	**HV TOU Demand Network – Customer HV and LV**				
	Network access charge per connection point	$/day	13.00	0.00	13.00
	Maximum demand charge	c/kVA/day	12.91	2.59	15.50
	Capacity charge	c/kVA/day	12.91	2.59	15.50
	Energy consumption at business times	cents/kWh	2.661	1.089	3.750
	Energy consumption at evening times	cents/kWh	1.420	1.040	2.460
	Energy consumption at off-peak times	cents/kWh	0.499	0.841	1.340

Table 3-2 compares network charges for 2011/12 with and without GST. Also, it compares network charges in 2011/12 with those for 2010/11. On average, tariffs have increased about 0.55 c/kWh including GST. This represents and average increase of about 7.8%. About 58 per cent of the increase is attributable to distribution price increases and the remainder to transmission price increases.

Table 3-2 Comparison of Network Charges with GST

Code	Description	Unit	Network Charges incl. GST 2010/11	Network Charges excl. GST 2011/12	Network Charges incl. GST 2011/12
RESIDENTIAL TARIFFS					
010	**Residential Basic Network**				
	Network access charge	cents/day	15.411	15.25	16.775
	Energy consumption	cents/kWh	6.435	6.310	6.941
015	**Residential TOU Network**				
	Network access charge	cents/day	15.411	15.25	16.775
	Energy consumption at max times	cents/kWh	9.273	9.180	10.098
	Energy consumption at mid times	cents/kWh	5.225	5.070	5.577
	Energy consumption at economy times	cents/kWh	3.883	3.740	4.114
020	**Residential 5000 Network**				
	Network access charge	cents/day	39.061	36.75	40.425
	Energy consumption for the first 60 kWh per day	cents/kWh	4.675	4.730	5.203
	Energy consumption above 60 kWh per day	cents/kWh	6.435	6.310	6.941
030	**Residential with Heat Pump Network**				
	Network access charge	cents/day	86.361	79.95	87.945
	Energy consumption for the first 165 kWh per day	cents/kWh	3.014	3.240	3.564
	Energy consumption above 165 kWh per day	cents/kWh	6.435	6.310	6.941
060	**Off-Peak (1) Night Network**				
	Energy consumption	cents/kWh	1.276	1.360	1.496
070	**Off-Peak (3) Day & Night Network**				
	Energy consumption	cents/kWh	1.716	1.840	2.024
	Renewable Energy Generation				
	Energy consumption	cents/kWh	0.00	0.000	0.00
COMMERCIAL LOW VOLTAGE TARIFFS					
040	**General Network**				
	Network access charge	cents/day	30.426	30.71	33.781
	Energy consumption for the first 330 kWh per day	cents/kWh	9.933	9.640	10.604
	Energy consumption above 330 kWh per day	cents/kWh	13.090	12.680	13.948
135	**Small Unmetered Loads Network**				
	Network access charge	cents/day	22.33	24.80	27.28
	Energy consumption	cents/kWh	10.769	10.880	11.968
141	**Internal Network (Obsolete)**				
	Network access charge	cents/day	30.426	30.71	33.781
	Energy consumption	cents/kWh	9.933	9.640	10.604
080	**Streetlighting Network**				
	Network access charge	cents/day	30.80	30.00	33.00
	Energy consumption	cents/kWh	5.907	6.440	7.084
090	**General TOU Network**				
	Network access charge	cents/day	30.426	30.71	33.781
	Energy consumption at business times	cents/kWh	15.400	15.290	16.819
	Energy consumption at evening times	cents/kWh	8.052	7.750	8.525
	Energy consumption at off-peak times	cents/kWh	3.388	3.330	3.663

Code	Description	Unit	Network Charges incl. GST 2010/11	Network Charges excl. GST 2011/12	Network Charges incl. GST 2011/12
Low voltage time of use demand network					
101	**LV TOU kVA Demand Network**				
	Network access charge per connection point	cents/day	38.50	36.00	39.60
	Maximum demand charge	c/kVA/day	41.36	40.40	44.44
	Energy consumption at business times	cents/kWh	4.862	4.800	5.280
	Energy consumption at evening times	cents/kWh	3.267	3.290	3.619
	Energy consumption at off-peak times	cents/kWh	1.804	1.690	1.859
103	**LV TOU Capacity Network**				
	Network access charge per connection point	cents/day	38.50	36.00	39.60
	Maximum demand charge	c/kVA/day	19.03	18.60	20.46
	Capacity charge	c/kVA/day	19.03	18.60	20.46
	Energy consumption at business times	cents/kWh	4.862	4.800	5.280
	Energy consumption at evening times	cents/kWh	3.267	3.290	3.619
	Energy consumption at off-peak times	cents/kWh	1.804	1.690	1.859
HIGH VOLTAGE TARIFFS					
High voltage time of use demand network with ActewAGL low voltage network					
111	**HV TOU Demand Network**				
	Network access charge per connection point	$/day	14.30	13.00	14.30
	Maximum demand charge	c/kVA/day	16.72	16.50	18.15
	Capacity charge	c/kVA/day	16.72	16.50	18.15
	Energy consumption at business times	cents/kWh	4.345	4.160	4.576
	Energy consumption at evening times	cents/kWh	2.893	2.820	3.102
	Energy consumption at off-peak times	cents/kWh	1.650	1.490	1.639
112	**HV TOU Demand Network – Customer HV**				
	Network access charge per connection point	$/day	14.30	13.00	14.30
	Maximum demand charge	c/kVA/day	15.62	15.50	17.05
	Capacity charge	c/kVA/day	15.62	15.50	17.05
	Energy consumption at business times	cents/kWh	4.345	4.160	4.576
	Energy consumption at evening times	cents/kWh	2.893	2.820	3.102
	Energy consumption at off-peak times	cents/kWh	1.650	1.490	1.639
High voltage time of use demand network without ActewAGL low voltage network					
121	**HV TOU Demand Network – Customer LV**				
	Network access charge per connection point	$/day	14.30	13.00	14.30
	Maximum demand charge	c/kVA/day	16.72	16.50	18.15
	Capacity charge	c/kVA/day	16.72	16.50	18.15
	Energy consumption at business times	cents/kWh	3.883	3.750	4.125
	Energy consumption at evening times	cents/kWh	2.486	2.460	2.706
	Energy consumption at off-peak times	cents/kWh	1.474	1.340	1.474
122	**HV TOU Demand Network – Customer HV and LV**				
	Network access charge per connection point	$/day	14.30	13.00	14.30
	Maximum demand charge	c/kVA/day	15.62	15.50	17.05
	Capacity charge	c/kVA/day	15.62	15.50	17.05
	Energy consumption at business times	cents/kWh	3.883	3.750	4.125
	Energy consumption at evening times	cents/kWh	2.486	2.460	2.706
	Energy consumption at off-peak times	cents/kWh	1.474	1.340	1.474

3.2 Miscellaneous Services Charges

Table 3-3 presents ActewAGL Distribution's charges for miscellaneous services for 2011/12 excluding and including GST. Also shown are the charges for miscellaneous services for 2010/11, including GST.

Table 3-3 Miscellaneous Service Charges

Code	Description	Unit	Prices incl. GST 2010/11	Prices excl. GST 2011/12	Prices incl. GST 2011/12
For visit to re-energise or de-energise a site					
501	Business hours – re-energise a site	per visit	$54.00	$50.91	$56.00
502	After hours – re-energise a site	per visit	$116.00	$109.09	$120.00
503	Business hours – de-energise a site	per visit	$48.00	$44.55	$49.00
504	**Meter test** - during business hours - deposit. (The deposit is refunded if the meter is faulty.)	per visit	$67.00	$61.82	$68.00
505	De-energise a site for non-payment	per visit	$90.00	$84.55	$93.00
506	Special meter reading, for example, check read (second in a billing period)	per visit	$35.00	$31.82	$35.00
507	Install interval meter at customers request	per visit	$168.00	$153.64	$169.00
508	Field visit only (De-energise a site for non-payment)	per visit	$65.00	$60.91	$67.00
509	Replace or install a meter to facilitate renewable energy installation	per visit	$168.00	$153.64	$169.00
Temporary connections					
520	Overhead	per installation	$385.00	$360.91	$397.00
521	Standard underground	per installation	$559.00	$523.64	$576.00
522	Free-standing underground	per installation	$678.00	$635.45	$699.00
Services					
530	Overhead: remove, reposition or disconnect service	per site visit	$277.00	$260.00	$286.00
531	Underground: remove, reposition or disconnect service	per site visit	$667.00	$625.45	$688.00
Upgrade service from single to three phase at customer's request where load does not justify three phase					
532	Overhead	per installation	$358.00	$335.45	$369.00
533	Underground – service cable replacement not required	per installation	$358.00	$335.45	$369.00
534	Underground – service cable replacement required	per installation	$667.00	$625.45	$688.00
540	**Rescheduled visit** (applied where a revisit to a site is necessitated by obstructed access, non-compliance with the Service and Installation Rules or the client is not ready for the scheduled work.)	per visit	$184.00	$172.73	$190.00
550	Issue of copies of electrical drawings	per sheet or electronic equivalent	$14.40	$13.45	$14.80

Code	Description	Unit	Prices incl. GST 2010/11	Prices excl. GST 2011/12	Prices incl. GST 2011/12
560	De-energising wires (to allow safe approach, for example, for tree pruning, plant operation, oversize loads, construction activities)	per occurrence	$445.01	$417.27	$459.00
570	**Embedded generation** - operational and maintenance charges for small embedded generators (other renewable <30KW)				
	for connection assets		2.0%	2.0%	2.0%*
	for shared network assets (if applicable)		2.0%	2.0%	2.0%*
	*This is a % of the capital cost of the assets.				

3.3 Metering Services Charges

Table 3-4 presents ActewAGL Distribution's metering services charges for 2011/12 excluding and including GST. Also shown are the charges for metering services for 2010/11, including GST.

Table 3-4 Metering Service Charges

Code	Description	Unit	Prices incl. GST 2010/11	Prices excl. GST 2011/12	Prices incl. GST 2011/12
MP1	**Quarterly basic metering rate**	-			
	Accumulation and time-of-use meters read quarterly	cents per day per NMI	14.069	12.75	14.025
MP2	**Monthly basic metering rate**	-			
	Accumulation and time-of-use meters read monthly	cents per day per NMI	24.574	22.29	24.519
MP3	**Time-of-use metering rate**	-			
	Time-of-use meters read monthly	cents per day per NMI	24.574	22.29	24.519
MP4	**Monthly manually-read interval metering rate**				
	Interval meters recording at either 15- or 30-minute intervals, read manually and processed monthly	$ per day per NMI	$2.002	$1.81	$1.991
MP5	**Internal metering rate**	-			
	Sites entitled to the Internal network charge	cents per day per NMI	24.574	22.29	24.519
MP6	**Quarterly manually-read interval metering rate**				
	Interval meters recording at either 15- or 30-minute intervals, read manually and processed quarterly	cents per day per NMI	57.75	52.00	57.200

4. Expected Pricing Trends

4.1 Expected Distribution Use-of-System Charges

Table 4-1 provides a list of expected distribution use of system charges. The prices for 2011/12 are the actual prices for that year. The forecast prices have been calculated in 2011/12 dollars for the remainder of the regulatory period (to 2013/14). The AER has determined that average distribution charges may rise by 4 per cent in real terms in the remaining years of the regulatory period. Therefore, the trend increase in prices reflects the X factors, only.

Table 4-1 Expected Distribution Use-of-system charges (excluding GST)

Code	Description	Unit	2011/12	2012/13	2013/14
RESIDENTIAL TARIFFS					
010	**Residential Basic Network**				
	Network access charge	cents/day	15.25	15.5	15.9
	Energy consumption	cents/kWh	4.933	4.07	4.17
015	**Residential TOU Network**				
	Network access charge	cents/day	15.25	15.5	15.9
	Energy consumption at max times	cents/kWh	7.461	9.52	9.93
	Energy consumption at mid times	cents/kWh	3.694	5.25	5.52
	Energy consumption at economy times	cents/kWh	2.600	3.88	4.05
020	**Residential 5000 Network**				
	Network access charge	cents/day	36.75	36.7	36.5
	Energy consumption for the first 60 kWh per day	cents/kWh	3.353	3.54	3.82
	Energy consumption above 60 kWh per day	cents/kWh	4.933	4.07	4.17
030	**Residential with Heat Pump Network**				
	Network access charge	cents/day	79.95	79.4	78.2
	Energy consumption for the first 165 kWh per day	cents/kWh	1.863	2.08	2.38
	Energy consumption above 165 kWh per day	cents/kWh	4.933	4.07	4.17
060	**Off-Peak (1) Night Network**				
	Energy consumption	cents/kWh	0.350	0.00	0.00
070	**Off-Peak (3) Day & Night Network**				
	Energy consumption	cents/kWh	0.830	0.00	0.00
	Renewable Energy Generation				
	Energy consumption	cents/kWh	0.00	0.00	0.00
COMMERCIAL LOW VOLTAGE TARIFFS					
040	**General Network**				
	Network access charge	cents/day	30.71	30.5	31.8
	Energy consumption for the first 330 kWh per day	cents/kWh	7.850	8.12	8.61
	Energy consumption above 330 kWh per day	cents/kWh	10.749	11.18	11.71

Code	Description	Unit	2011/12	2012/13	2013/14
135	**Small Unmetered Loads Network**				
	Network access charge	cents/day	24.80	25.1	26.1
	Energy consumption	cents/kWh	9.331	9.66	10.15
141	**Internal Network**				
	Network access charge	cents/day	30.71	30.5	31.8
	Energy consumption	cents/kWh	7.850	8.12	8.61
080	**Streetlighting Network**				
	Network access charge	cents/day	30.00	31.0	32.0
	Energy consumption	cents/kWh	5.097	3.84	4.06
090	**General TOU Network**				
	Network access charge	cents/day	30.71	30.5	31.8
	Energy consumption at business times	cents/kWh	13.152	15.80	16.58
	Energy consumption at evening times	cents/kWh	6.371	8.03	8.43
	Energy consumption at off-peak times	cents/kWh	2.337	3.46	3.64
Low voltage time of use demand network					
101	**LV TOU kVA Demand Network**				
	Network access charge per connection point	cents/day	36.00	36.0	37.0
	Maximum demand charge	c/kVA/day	34.81	38.3	39.2
	Energy consumption at business times	cents/kWh	3.660	4.39	4.66
	Energy consumption at evening times	cents/kWh	2.195	2.85	3.03
	Energy consumption at off-peak times	cents/kWh	0.800	1.78	1.89
103	**LV TOU Capacity Network**				
	Network access charge per connection point	cents/day	36.00	36.0	37.0
	Maximum demand charge	c/kVA/day	16.03	19.0	19.5
	Capacity charge	c/kVA/day	16.03	19.0	19.5
	Energy consumption at business times	cents/kWh	3.660	4.99	5.30
	Energy consumption at evening times	cents/kWh	2.195	3.43	3.65
	Energy consumption at off-peak times	cents/kWh	0.800	1.78	1.89
HIGH VOLTAGE TARIFFS					
111	**HV TOU Demand Network**				
	Network access charge per connection point	$/day	13.00	13.00	13.00
	Maximum demand charge	c/kVA/day	13.91	15.2	15.3
	Capacity charge	c/kVA/day	13.91	15.2	15.3
	Energy consumption at business times	cents/kWh	3.071	1.85	1.82
	Energy consumption at evening times	cents/kWh	1.780	1.73	1.71
	Energy consumption at off-peak times	cents/kWh	0.649	1.52	1.56
112	**HV TOU Demand Network – Customer HV**				
	Network access charge per connection point	$/day	13.00	13.00	13.00
	Maximum demand charge	c/kVA/day	12.91	14.2	14.3
	Capacity charge	c/kVA/day	12.91	14.2	14.3
	Energy consumption at business times	cents/kWh	3.071	1.85	1.82
	Energy consumption at evening times	cents/kWh	1.780	1.73	1.71
	Energy consumption at off-peak times	cents/kWh	0.649	1.52	1.56

Code	Description	Unit	2011/12	2012/13	2013/14
121	**HV TOU Demand Network – Customer LV**				
	Network access charge per connection point	$/day	13.00	13.00	13.00
	Maximum demand charge	c/kVA/day	13.91	15.2	15.3
	Capacity charge	c/kVA/day	13.91	15.2	15.3
	Energy consumption at business times	cents/kWh	2.661	2.60	2.65
	Energy consumption at evening times	cents/kWh	1.420	1.38	1.37
	Energy consumption at off-peak times	cents/kWh	0.499	1.28	1.33
122	**HV TOU Demand Network – Customer HV and LV**				
	Network access charge per connection point	$/day	13.00	13.00	13.00
	Maximum demand charge	c/kVA/day	12.91	14.2	14.3
	Capacity charge	c/kVA/day	12.91	14.2	14.3
	Energy consumption at business times	cents/kWh	2.661	2.60	2.65
	Energy consumption at evening times	cents/kWh	1.420	1.38	1.37
	Energy consumption at off-peak times	cents/kWh	0.499	1.28	1.33

4.2 Expected Miscellaneous Service Charges

Table 4-2 provides a list of expected charges for miscellaneous services to 2013/14 in 2011/12 dollar terms. The prices for 2011/12 are the actual prices for that year. While the revenue cap for standard control services (of which miscellaneous service are a part) rises by CPI plus 4 per cent, these prices are kept constant in real terms.

Table 4-2 Expected Miscellaneous Service Charges (including GST)

Code	Description	Unit	2011/12	2012/13	2013/14
For visit to re-energise or de-energise a site					
501	Business hours – re-energise a site	per visit	$56.00	$56.00	$56.00
502	After hours – re-energise a site	per visit	$120.00	$120.00	$120.00
503	Business hours – de-energise a site	per visit	$49.00	$49.00	$49.00
504	**Meter test** during business hours - deposit. (The deposit is refunded if the meter is faulty.)	per test	$68.00	$68.00	$68.00
505	De-energise a site for non-payment	per visit	$93.00	$93.00	$93.00
506	Special meter reading, for example, check read (second in a billing period)	per read	$35.00	$35.00	$35.00
507	Install interval meter at customer's request	per meter	$169.00	$169.00	$169.00
508	Field visit only (De-energise a site for non-payment)	per visit	$67.00	$67.00	$67.00
509	Replace meter for facilitate renewable energy generation	per meter	$169.00	$169.00	$169.00
Temporary connections					
520	Overhead	per installation	$397.00	$397.00	$397.00
521	Standard underground	per installation	$576.00	$576.00	$576.00
522	Free-standing underground	per installation	$699.00	$699.00	$699.00
Services					
530	Overhead: remove, reposition or disconnect service	per site visit	$286.00	$286.00	$286.00
531	Underground: remove, reposition or disconnect service	per site visit	$688.00	$688.00	$688.00

Code	Description	Unit	2011/12	2012/13	2013/14

532	Overhead	per installation	$369.00	$369.00	$369.00
533	Underground – service cable replacement not required	per installation	$369.00	$369.00	$369.00
534	Underground – service cable replacement required	per installation	$688.00	$688.00	$688.00
540	**Rescheduled visit** (applied where a revisit to a site is necessitated by obstructed access, non-compliance with the Service and Installation Rules or the client is not ready for the scheduled work.)	per visit	$190.00	$190.00	$190.00
550	Issue of copies of electrical drawings	per sheet or electronic equivalent	$14.80	$14.80	$14.80
560	De-energising wires (to allow safe approach, for example, for tree pruning, plant operation, oversize loads, construction activities)	per occurrence	$459.00	$459.00	$459.00
570					
	for connection assets		2.0%	2.0%	2.0%*
	for shared network assets (if applicable)		2.0%	2.0%	2.0%*
	*This is a % of the capital cost of the assets.				

4.3 Expected Metering Services Charges

Table 4-3 provides a list of expected charges for metering services to 2013/14. These charges apply to customers consuming less than 160 MWh per annum with a manually read meter. The prices for 2011/12 are the actual prices. The AER has determined that the revenue cap for these charges will rise with inflation over the remainder of the regulatory period. These prices are in real 2011/12 dollars and decline because of the growth in customer numbers.

Table 4-3 Expected Metering Service Charges (excluding GST)

Code	Description	Unit	2011/12	2012/13	2013/14
MP1	**Quarterly basic metering rate**				
	Accumulation and time-of-use meters read quarterly	cents per day per NMI*	12.75	12.32	12.11
MP2	**Monthly basic metering rate**				
	Accumulation and time-of-use meters read monthly	cents per day per NMI	22.29	21.54	21.22
MP3	**Time-of-use metering rate**				
	Time-of-use meters read monthly	cents per day per NMI	22.29	21.54	21.22
MP4	**Monthly manually-read interval metering rate**				
	Interval meters recording at either 15 or 30 minute intervals, read manually and processed monthly	$ per day per NMI	$1.81	$1.74	$1.70
MP5	**Internal metering rate**				
	Sites entitled to the Internal Network charge	cents per day per NMI	22.29	21.54	21.22
MP6	**Quarterly manually-read interval metering rate**				
	Interval meters recording at either 15 or 30 minute intervals, read manually and processed quarterly	cents per day per NMI	52.00	51.60	51.40

* National metering identifier