



Network Tariff Application and Price Guide

For the regulatory year 1 July 2014 to 30 June 2015

As Submitted to the AER

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AURORA ENERGY PTY LTD
Network Tariff Application and Price Guide

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1. Introduction

This 2014-15 Network Tariff Application and Price Guide:

- outlines Aurora's network tariff terms and conditions for standard control services and applies from 1 July 2014 to 30 June 2015;
- provides the network use of system (NUoS) tariffs for distribution use of system (DUoS) and transmission use of system (TUoS) charges applied by Aurora for all distribution connected customer sites; and
- provides information on how Aurora assigns customers to tariff classes and the review process which is undertaken where a customer objection is received in writing.

Further information on Aurora's network tariffs can be found at Aurora's website at <http://www.auroraenergy.com.au/electricity-network/network-tariffs> and in Aurora's 2014-15 Pricing Proposal¹.

¹ Aurora Energy Pricing Proposal, 1 July 2014 – 30 June 2015, April 2014.

2. Application of network tariffs

2.1. Aurora

All references to Aurora within this Network Tariff Application and Price Guide, unless otherwise stated, are to Aurora in its capacity as a licensed distribution network service provider in the Tasmanian jurisdiction only.

2.2. Goods and service tax (GST)

The NUoS prices and network tariffs published by Aurora, unless otherwise stated, are exclusive of GST.

2.3. Time zones

All times reflected in this document are in Australian Eastern Standard Time (AEST) unless otherwise specified.

2.4. Metering services

The standard charge for the provision of metering services may apply, depending upon the type of metering services that are provided to the customer.

Where a customer requires the provision of Type 1 – 4 metering services, charges for the provision of metering services will only apply should Aurora be appointed as the metering provider (MP) and will be negotiated in accordance with the MP contract.

In all other cases the standard metering services charge will apply.

Further information on Aurora's metering services tariffs can be found in Aurora's 2014-15 Metering Services Application and Price Guide.

2.5. Meter Self Read Scheme

Aurora's meter self read scheme gives eligible customers the capacity to submit their own meter readings online. Continued eligibility for the scheme is conditional upon the following:

1. The customer will provide the reads to Aurora in the appropriate format.
2. The customer will permit Aurora unhindered access to their premises to read the meters at least once every 12 months.
3. Aurora will read the meter during its normal scheduled reading rounds.
 - (i) Aurora will notify the customer of the date that Aurora is scheduled to read the meter.
4. In the event that the scheduled date is not suitable to the customer, Aurora will re-schedule a read, and that read will be treated as a special meter read².
5. In the event that Aurora is unable to read the meter because Aurora cannot safely access the premises to read the meter, Aurora will re-schedule a read, and that read will be treated as a special meter read².

² Aurora's fee-based services tariffs for special meter reads are discussed in Aurora's Fee-based Services Application and Price Guide.

6. In the event that Aurora is unable to read the meter after re-scheduling in line with clause 5 above, Aurora will treat this as an access issue in line with clause 9.1 of Aurora's Deemed Supply Contract³.
7. In the event that Aurora is unable to read the meter on the scheduled date for reasons that are not attributable to the customer, "non-customer reasons", Aurora will reschedule the reading at no cost to the customer.

2.6. Choice of network charges

It is a matter for the customer's retailer of choice to suggest the network tariff that is appropriate for the customer's needs. The final determination of network tariff remains the responsibility of Aurora. Transfers between network tariffs will apply from the beginning of the normal billing period following the month in which written advice is received by Aurora and transfers will not have any retrospective effect.

Aurora reserves the right to review a customer's network tariff in the event of any electrical load changes and will notify the customer's retailer of choice regarding any resulting network tariff pricing changes. The final decision on the appropriate network tariff shall be at the discretion of Aurora.

There may be instances where a customer may have a separate connection agreement with Aurora to directly invoice the customer for network use and the customer's retailer of choice will only provide energy related commercial services.

2.7. Obsolete tariffs

There are a number of network tariffs that Aurora has classified as obsolete. An obsolete network tariff is no longer available to any new customer. Existing customers may remain on an obsolete tariff providing no alteration is made to the customer's installation.

Customers (and/or the customer's retailer) that choose to transfer from an obsolete network tariff will lose all rights to all obsolete network tariffs at that installation, i.e. the entire installation will be required to move to currently available published network tariffs.

2.8. Mid month change of retailer of choice

When a customer elects to change their retailer of choice at any time during a calendar month, NUoS invoices will be allocated pro-rata between the retailers involved.

NUoS invoices will use the "actual readings" obtained on the day of transfer.

Unmetered electricity supplies will be transferred on a pro rata basis based on the number of days in the month the customer was contracted with each retailer.

It will not be possible to transfer electricity supplies between retailers on the same business day.

2.9. Standby electricity supply

Where customers with critical electricity supply needs have a requirement for standby electricity supply capability, applicable network charges will be negotiated on the basis of the assets involved and the amount of feeder capacity required to be kept in reserve to accommodate the standby supply.

³ Aurora's Deemed Supply Contract is available on Aurora's website at www.auroraenergy.com.au

2.10. Embedded generation

NUoS charges for Embedded Generation will be individually calculated (refer to section 28 of this Guide).

2.11. Published network tariffs

Aurora's current published network tariff prices can be found on Aurora's website at <http://www.auroraenergy.com.au/electricity-network/network-tariffs>.

3. Assigning and reassigning customers to tariff classes

Aurora assigns customers to tariffs on the basis of usage and size. Customers are assigned into one of following tariff classes:

- ITC;
- HV;
- irrigation;
- large LV;
- small LV;
- residential;
- uncontrolled energy;
- controlled energy;
- unmetered;
- streetlight; and
- embedded generation.

Customers are assigned to at least one tariff class. Assignment to tariff classes is based on:

- the nature of the customer's connection;
- the customer's forecast usage and size; and
- the premise that the same connection and usage profiles are treated on a consistent basis.

3.1. Reassignment of network tariffs

Customers seeking tariff reassignment must:

- (a) be eligible for tariff reassignment; and
- (b) provide Aurora with one month's written notification; and
- (c) pay any applicable tariff alteration fee⁴.

Customers must remain on the reassigned network tariff for a minimum of 12 months unless otherwise agreed with Aurora. This condition prevents customers from changing network tariffs to take advantage of seasonal variations in prices according to their individual load; thereby bypassing payment that reflects use of the distribution network over a full 12 month cycle.

A tariff reassignment request may be made:

- (a) through the customer's retailer; where:
 - (i) the retailer will notify Aurora; or
- (b) through Aurora, where:
 - (i) Aurora will advise the customer's retailer.

⁴ Aurora's fee-based services tariffs for tariff alterations are discussed in Aurora's Fee-based Services Application and Price Guide.

Exceptions to the above conditions will only be made at Aurora's discretion where it can be demonstrated that to not do so would result in unreasonable penalties or impose hardship on the customer.

4. Maximum demand application

For the purposes of determining a customer's maximum demand for network tariff application the following rules will apply.

4.1. Definition of maximum demand

Maximum demand means the electrical demand measured in kiloVoltAmps (kVA) or kiloWatts (kW) and is calculated as the energy consumption recorded over the demand integration period divided by the demand integration period in hours. Aurora's demand integration period is 15 minutes.

The value is used for setting the maximum demand charges to be paid by the customer during each billing period.

4.2. Calculation of maximum demand

Where maximum demand is used as the basis for network tariff charges, the calculation is determined by using the any-time maximum demand (ATMD) for the installation during the day.

Where the maximum demand charge is for the entire billing period, the ATMD of an installation during the billing period is taken to be the largest value of the electrical demand for that installation during that billing period.

Where the maximum demand charge is for each day during the billing period, the ATMD of an installation during the day is taken to be the largest value of the electrical demand for that installation during that day of the billing period.

4.3. Increases in electrical demand

Where a customer requests a change in network tariff due to an increase in electrical demand at their connection point, the customer must provide 20 business days written advice (prior to the commencement of the next billing period) to Aurora detailing their new requirements. Aurora will notify the customer in writing within 10 business days advising of any revised charges or tariff reassignment.

The increased level of electrical demand shall apply from the commencement of the next billing period, subject to any required works being completed by Aurora.

4.4. Temporary increases in maximum demand

Temporary increases in electrical demand will:

- be subject to negotiation and approval by Aurora;
- be defined in terms of "additional demand" for a specific period and charged at an agreed demand charge rate;
- apply for one full billing period, except in the case of commissioning of new plant, in which case the duration of the temporary increase may be extended for the duration of the commissioning period; and
- be limited to one occurrence each 12 months or as otherwise agreed with Aurora.

4.5. Reduction in maximum demand

Where a customer requests a change in network tariff due to a reduction in electrical demand at their connection point, the customer must provide six months written advice (prior to the commencement of the next billing period) to Aurora detailing their new requirements. Aurora will notify the customer in writing within 60 days advising of any revised charges or tariff reassignment.

The decreased level of electrical demand shall apply from the commencement of the billing period advised by Aurora as part of the notification of Aurora's acceptance of the reduced demand.

However, following the installation by a customer of load management equipment approved by Aurora or the implementation of a demand management initiative approved by Aurora, the six month notice period referred to above may be reduced at the discretion of Aurora.

5. System of assessment and review of the basis on which a customer is charged

Aurora's process for setting a customer's specified demand, confirming a customer's specified demand at the start of each regulatory year and assessing a customer's request for change in specified demand during the regulatory year is outlined below.

5.1. Setting a customer's specified demand

Customers on certain network tariffs are able to agree, or nominate, with Aurora a specified demand for their electrical installation. Once agreed this specified demand is used in the calculation of demand charges for the customer.

Specified demands for all new customers are established as a component of the customer connection process and remain in force until the customer requests a change in that specified demand.

Aurora will review each existing customer's specified demand annually coinciding with the preparation of Aurora's Annual Pricing Proposal. This assessment is based on historical data and tariff specifications for each customer on their specified demand related network tariff.

5.2. Confirming a customer's specified demand at the start of each regulatory year

Confirmation of a customer's specified demand is completed through a letter written to each customer (and the customer's retailer) each year. This letter seeks the customer's confirmation that the customer wishes to amend their current specified demand. Aurora requires that each customer should respond within 10 business days, or the current specified demand will continue to apply.

The customer letter confirms:

- the network tariff the customer has been assigned or reassigned; and
- that the specified demand will apply for the 12 months from 1 July that year.

A further confirmation letter is sent to the customer (and the customer's retailer) detailing the nominated specified demand and prices that will apply following the AER's approval of Aurora's Annual Pricing Proposal.

Particular customer specific demands are kept confidential.

5.3. Assessing a customer's request for change in specified demand during the year

Aurora will assess a customer's request for a change in specified demand in line with section 3 of this document.

6. Procedure for reviewing complaints and disputes

Aurora will ensure that all complaints and disputes are dealt with in accordance with its standard complaints and dispute resolution policy and procedures. Aurora's dispute resolution policy is reviewed annually and published on Aurora's website.

6.1. Internal procedure for reviewing objections

Where Aurora receives written notification that a customer has an objection to a proposed tariff assignment or reassignment, the following additional procedures will be followed.

An initial review process will be performed by the customer's retailer and forwarded to Aurora for review. This initial review by the retailer should include the proposed tariff assignment and an indication of the customer's anticipated annual consumption and any time maximum demand for the installation.

Aurora will then undertake the following internal review process:

- (a) the customer's written objection will be reviewed by Aurora and the review will be completed within 10 business days of receipt of the customer's written objection;
- (b) additional information provided by the customer (and/or the customer's retailer) will be considered;
- (c) Aurora will determine the energy and/or demand usage for the customer based on:
 - (i) customer (and/or retailer) information; or
 - (ii) Aurora's historical or estimated energy consumption data;
- (d) an assessment of the customer's connection to the network will be made;
- (e) Aurora will determine the tariff assignment that should apply;
- (f) the proposed tariff assignment will be reviewed and approved by the Revenue and Pricing Manager; and
- (g) the customer (and/or customer's retailer) will be notified in writing of the tariff assignment review outcomes within five business days of completion of the Aurora review.

6.2. Objection not resolved to satisfaction of customer under internal review process

If the customer objection to tariff assignment or reassignment to a specific tariff class, after applying Aurora's internal review process as detailed above, is not resolved to the customer's satisfaction, the customer is entitled to seek resolution through the following:

- if the resolution of the dispute is within the jurisdiction of the Energy Ombudsman Tasmania, the customer is entitled to escalate the matter to the Energy Ombudsman Tasmania; or
- if the objection is not resolved to the satisfaction of the customer under Aurora's internal review system and/or the Energy Ombudsman Tasmania, then the customer is entitled to seek a decision of the AER via the dispute resolution process available under Part 10 of the National Electricity Law.

6.3. Final tariff class assignment

6.3.1. Initial tariff assignment

Where a customer has initially been assigned to a network tariff as a component of that customer's connection to the distribution network, that tariff assignment will remain in force until the resolution of any objection to that tariff assignment, in accordance with these procedures.

Should the resolution of the customer's objection result in a change in network tariff assignment that tariff assignment will be back-dated to the original date of assignment and the customer's account will be adjusted in the next billing period.

6.3.2. Tariff reassignment

Where a customer has been notified that they will be reassigned to a network tariff and the customer objects to that tariff assignment, that tariff reassignment will not occur until the resolution of any objection to that tariff reassignment, in accordance with these procedures.

Should the resolution of the customer's objection result in a tariff reassignment, that tariff reassignment will occur at the commencement of the next billing period for the customer or the originally notified date; whichever is the later.

7. Network tariffs for Standard Control Services

Table 1 shows the Standard Control Services network tariffs that Aurora will offer for the 2014-15 regulatory year.

Table 1: Standard Control Services network tariffs

Description	Aurora Code	Type
Residential LV General	TAS31	Published Tariff
Business LV General	TAS22	Published Tariff
Business LV Nursing Homes	TAS34	Published Obsolete Tariff
General Network – Business, Curtilage	TASCURT	Published Obsolete Tariff
Uncontrolled LV Heating	TAS41	Published Tariff
Controlled LV Energy – Off Peak with afternoon boost	TAS61	Published Tariff
Controlled LV Energy – Night period only	TAS63	Published Tariff
UMS LV General	TASUMS	Published Tariff
LV Day/Night Irrigation	TAS73	Published Obsolete Tariff
Irrigation LV ToU	TAS75	Published Tariff
Business LV kVA Demand	TAS82	Published Tariff
Business HV kVA Specified Demand	TASSDM	Published Tariff
Residential LV PAYG	TAS101	Published Obsolete Tariff
Residential LV PAYG ToU	TAS92	Published Tariff
Business LV ToU	TAS94	Published Tariff
Residential LV ToU	TAS93	Published Tariff
Business HV kVA Specified Demand (>2.0 MVA)	TAS15	Published Tariff
UMS LV Public Lighting	TASUMSSL	Published Tariff
Residential LV Import Transitional	TASX1I	Published Tariff
Business LV Import Transitional	TASX2I	Published Tariff
Residential LV Import Fair and Reasonable	TASX4I	Published Tariff
Business LV Import Fair and Reasonable	TASX5I	Published Tariff
Non-Qualifying Import	TASX6I	Published Tariff
Individual network tariff Calculation	ITC	Negotiated Tariff

8. Residential LV General (TAS31)

This network tariff is for low voltage installations that are premises used wholly or principally as Private Residential Dwellings.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

Farm outbuildings may be connected on this network tariff provided that the connection is through the meters of the farm residence.

This network tariff may also be used in conjunction with the following additional network tariffs:

- TAS41 – Uncontrolled LV Heating;
- TAS61 – Controlled LV Energy – Off Peak with afternoon boost; and
- TAS63 – Controlled LV Energy – Night period only.

A Type 6 meter is the minimum required for installations on this network tariff.

8.1. Network tariff prices

Table 2 sets out the prices applicable to this network tariff.

Table 2: Tariff prices for Residential LV General

Aurora Code – TAS31	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
All Energy (c/kWh)	11.699
TUoS Charge	
All Energy (c/kWh)	4.049

9. Business LV General (TAS22)

This network tariff is for low voltage installations that are not Private Residential Dwellings.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

This network tariff may also be used in conjunction with the following additional network tariffs:

- TAS41 – Uncontrolled LV Heating;
- TAS61 – Controlled LV Energy – Off Peak with afternoon boost; and
- TAS63 – Controlled LV Energy – Night period only.

A Type 6 meter is the minimum required for installations on this network tariff.

9.1. Network tariff prices

Table 3 sets out the prices applicable to this network tariff.

Table 3: Tariff prices for Business LV General

Aurora Code – TAS22	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
All Energy (c/kWh)	11.699
TUoS Charge	
All Energy (c/kWh)	4.049

10. Business LV Nursing Homes (TAS34)

This network tariff is obsolete and therefore no longer available to new customers.

This network tariff is for low voltage installations that are registered as aged care facilities.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

This network tariff may also be used in conjunction with the following additional network tariffs:

- TAS41 – Uncontrolled LV Heating; and
- TAS61 – Controlled LV Energy – Off-Peak with afternoon boost.

A Type 6 meter is the minimum required for installations on this network tariff.

The step energy charges within this network tariff have been increased each regulatory year to date by an amount equal to the change in CPI plus an additional 6 per cent. In future regulatory years the increase will be accelerated until such time as those step energy charges achieve parity with the energy charge within network tariff TAS22 – General Network Business. When this network tariff achieves parity with the network tariff TAS22 – General Network Business, this network tariff will be discontinued and will not be available to any customer. Aurora will write to any customers remaining on this network tariff, at this time, advising that Aurora intends to reassign those customers to network tariff TAS22 – General Network Business.

10.1. Network tariff prices

Table 4 sets out the prices applicable to this network tariff.

Table 4: Tariff prices for Business LV Nursing Homes

Aurora Code – TAS34	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
First 500 kWh per Quarter (c/kWh)	11.699
Remaining Consumption (c/kWh)	5.152
TUoS Charge	
First 500 kWh per Quarter (c/kWh)	4.049
Remaining Consumption (c/kWh)	3.064

11. General Network – Business, Curtilage (TASCURT)

This network tariff is obsolete and therefore no longer available to new customers.

This network tariff is for low voltage rural installations having a single connection point but requiring more than one meter due to site layout.

The single connection point must supply an installation qualifying for, and being supplied network tariff, TAS31 – General Network Residential.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

With the exception of the preceding clarification, this network tariff may not be used in conjunction with any other network tariff.

A Type 6 meter is the minimum required for installations on this network tariff.

The daily charge within this network tariff to date has been increased each regulatory year by an amount equal to a decreasing annual 10 per cent discount of the network tariff TAS22 – General Network Business daily charge. In the future the discount will be removed at an accelerated rate until such time as the daily charge achieves parity with the daily charge within network tariff TAS22 – General Network Business. When this network tariff achieves parity with the network tariff TAS22 – General Network Business, this network tariff will be discontinued and will not be available to any customer. Aurora will write to any customers remaining on this network tariff, at this time, advising that Aurora intends to reassign those customers to network tariff TAS22 – General Network Business.

11.1. Network tariff prices

Table 5 sets out the prices applicable to this network tariff.

Table 5: Tariff prices for General Network – Business, Curtilage

Aurora Code - TASCURT	2014-15 Tariff
DUoS Charge	
Daily (c/day)	25.092
All Energy (c/kWh)	11.699
TUoS Charge	
All Energy (c/kWh)	4.049

12. Uncontrolled LV Heating (TAS41)

This network tariff is for low voltage installations.

12.1. General conditions

12.1.1. Private Residential Dwellings

In installations that are Private Residential Dwellings, this network tariff:

- is for water heating and/or residential space heating and/or domestic indoor pool heating only; and
- may only be used if the installation also has a current connection on network tariff TAS31 – General Network Residential.

12.1.2. Other installations

In installations that are not Private Residential Dwellings, this network tariff:

- is for water heating only; and
- may only be used if the installation also has a current connection on network tariff TAS22 – General Network Business or TAS34 – General Network Business, Nursing Homes.

12.1.3. All installations

With the exception of thermal-storage space heaters or thermal-storage water heaters, this network tariff may not be applied to any apparatus also connected under another network tariff.

This network tariff is not available in its own right and must be used in conjunction with one of the following additional network tariffs:

- TAS31 – Residential LV General;
- TAS22 – Business LV General; or
- TAS34 – Business LV Nursing Homes.

A Type 6 meter is the minimum required for installations on this network tariff.

12.2. Requirements of water heating systems

12.2.1. Private Residential Dwellings

In installations that are Private Residential Dwellings, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements; and
- must, if the delivery rating of the water heating system is less than or equal to 500 litres, have an electric heating unit rating not exceeding 16 Watts per litre; or
- must, if the delivery rating of the water heating system is greater than 500 litres, have an electric heating unit rating not exceeding 32 Watts per litre.

Non-compliant systems may be refused connection or be disconnected.

Where a Private Residential Dwelling has a water storage heater installed, and the delivery rating is greater than 20 litres but less than 100 litres, the limit of 16 Watts per litre may be exceeded by that individual water storage heater. Only one water storage unit, with a delivery rating between 20 and 100 litres that exceeds the 16 Watts per litre threshold may be installed at a Private Residential Dwelling.

12.2.2. Other installations

In installations that are not Private Residential Dwellings, for connection on this network tariff, the water heating systems:

- must comply with Australian Standard 1056, Storage Water Heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements, and
- must, if the delivery rating of the water heating system is less than or equal to 500 litres, have an electric heating unit rating not exceeding 16 Watts per litre; or
- must, if the delivery rating of the water heating system is greater than 500 litres, have an electric heating unit rating not exceeding 32 Watts per litre.

Non-compliant systems may be refused connection or be disconnected.

Where an installation that is not a Private Residential Dwelling has two or more water storage heaters installed, and the combined delivery rating is greater than 500 litres, the limit of 32 Watts per litre may be exceeded by an individual water storage heater provided that the ratio of the total wattage of all the water heating units to the total delivery rating does not exceed 32 Watts per litre.

12.3. Dairy water heaters

Dairy water heaters containing main and booster heating units may have both heating units connected under this network tariff.

Dairy water heaters are not required to comply with the AS 1056.

The electric heating unit ratings detailed in section 12.2.2 do not apply to dairy water heaters.

12.4. Requirements of residential space heating systems

Permanently installed “wired-in” electric heater(s) may be eligible for this network tariff on condition that the wiring of any electric heater is installed by a registered electrician in accordance with AS/NZS 3000 wiring rules and associated regulations and acts, and one of the following conditions are met:

- if a residence has a permanently installed “wired-in” electric heater with an output of 3.5 kW in a living area, on a single functional switch then this, and any additional permanently “wired-in” space heaters throughout the residence, may be installed on this network tariff; or
- a total rating of at least 5 kW of the same heating system installed throughout the residence. This heating system must be the priority heating system of the main living area and must have a single functional switch in each heated area throughout the residence. However where a ducted heating system is installed, the control switch must be located near the heating unit in order to qualify for this network tariff; or

- heating in secondary areas such as bedrooms and hallways if the residence has off peak storage heating in the living area(s) as its priority source of heating. The secondary heating system should be a permanently connected single propriety heating system with a total of 5 kW or more heating capacity.

12.5. Requirements of domestic indoor pool heating systems

Private domestic indoor swimming pools are allowed under this network tariff if an installation:

- complies with the residential space heating system rules as provided above; and
- has an electrical input power limit of 400 Watt/m² of surface area.

12.6. Domestic spa systems

Spas are not eligible for connection to this network tariff.

12.7. Network tariff prices

Table 6 sets out the prices applicable to this network tariff.

Table 6: Tariff prices for Uncontrolled LV Heating

Aurora Code – TAS41	2014-15 Tariff
DUoS Charge	
Daily (c/day)	4.528
All Energy (c/kWh)	2.252
TUoS Charge	
All Energy (c/kWh)	2.492

13. Controlled LV Energy – Off Peak with afternoon boost (TAS61)

This network tariff is for low voltage installations.

13.1. General conditions

13.1.1. Private Residential Dwellings

In installations that are Private Residential Dwellings, this network tariff:

- is for water heating and/or residential space heating and/or other “wired in” appliances as approved by Aurora; or
- may be used for heating swimming pools, including those that incorporate a spa. Note that an individual spa from which the water goes to waste after use may not be connected on this network tariff; and
- may only be used if the premises also has a current connection on network tariff TAS31 – Residential LV General.

13.1.2. Other installations

In installations that are not Private Residential Dwellings, this network tariff:

- is for water heating and/or space heating and/or other “wired in” appliances as approved by Aurora; and
- may only be used if the premises also has a current connection on network tariff TAS22 – Business LV General, or TAS34 – Business LV Nursing Homes.

13.1.3. All installations

With the exception of thermal-storage space heaters or thermal-storage water heaters, this network tariff may not be applied to any apparatus also connected under another network tariff.

In all installations, this network tariff may not be used for circuits supplying general-purpose outlets, other than existing outlets supplied on this tariff.

This network tariff is not available in its own right and must be used in conjunction with one of the following additional network tariffs:

- TAS31 – Residential LV General;
- TAS22 – Business LV General; and
- TAS34 – Business LV Nursing Homes.

A Type 6 meter is the minimum required for installations on this network tariff and must have the ability to control energy flows.

13.2. Time of use availability

This network tariff is a “time of use” tariff. Energy to installations connected on this network tariff will be available daily for:

- at least nine hours between 20:00 hours and 07:00 hours the following day; and
- a further two hours between 13:00 hours and 16:30 hours.

Aurora will choose the actual times during the periods that the energy will be available.

13.3. Requirements of water heating systems

In all installations, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements.

Non-compliant systems may be refused connection or disconnected.

13.4. Requirements of space heating systems

Permanently installed “wired-in” electric heater(s) may be eligible for this network tariff on condition that the wiring of any electric heater is installed by a registered electrician in accordance with AS/NZS 3000 wiring rules and associated regulations and acts.

13.5. Requirements of “wired in” appliances

Permanently installed “wired-in” appliances may be eligible for this network tariff on condition that the wiring of any appliance is installed by a registered electrician in accordance with AS/NZS 3000 wiring rules and associated regulations and acts.

13.6. Network tariff prices

Table 7 sets out the prices applicable to this network tariff.

Table 7: Tariff prices for Controlled LV Energy – Off Peak with afternoon boost

Aurora Code – TAS61	2014-15 Tariff
DUoS Charge	
Daily (c/day)	8.489
All Energy (c/kWh)	0.911
TUoS Charge	
All Energy (c/kWh)	0.759

14. Controlled LV Energy – Night period only (TAS63)

This network tariff is for low voltage installations.

14.1. General conditions

14.1.1. Private Residential Dwellings

In installations that are Private Residential Dwellings, this network tariff:

- is for water heating and/or residential space heating and/or other circuits as approved by Aurora;
- may be used for heating swimming pools, including those that incorporate a spa. Note that an individual spa from which the water goes to waste after use may not be connected on this network tariff; and
- may only be used if the installation also has a current connection on network tariff TAS31 – Residential LV General or TAS93 – Residential LV ToU.

14.1.2. Other installations

In installations that are not Private Residential Dwellings, this network tariff:

- is for water heating and/or space heating and/or other circuits as approved by Aurora; and
- may only be used if the installation also has a current connection on network tariff TAS22 – Business LV General or TAS94 – Business LV ToU.

14.1.3. All installations

In all installations, this network tariff may be used for circuits supplying general-purpose outlets.

This network tariff is not available in its own right and must be used in conjunction with one of the following additional network tariffs:

- TAS31 – Residential LV General;
- TAS93 – Residential LV ToU;
- TAS22 – Business LV General; and
- TAS94 – Business LV ToU.

A Type 6 meter is the minimum required for installations on this network tariff, must be capable of recording time of use data and must have the ability to control energy flows.

14.2. Time of use availability

This network tariff is a “time of use” tariff. Energy to installations connected on this network tariff will only be available between 22:00 hours and 07:00 hours the following day.

14.3. Requirements of water heating systems

In all installations, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements.

Non-compliant systems may be refused connection or disconnected.

14.4. Network tariff prices

Table 8 sets out the prices applicable to this network tariff.

Table 8: Tariff prices for Controlled LV Energy – Night period only

Aurora Code – TAS63	2014-15 Tariff
DUoS Charge	
Daily (c/day)	8.489
All Energy (c/kWh)	0.817
TUoS Charge	
All Energy (c/kWh)	0.679

15. Residential LV PAYG (TAS101)

This network tariff is obsolete and therefore no longer available to new customers.

This network tariff is for low voltage installations that are premises used wholly or principally as Private Residential Dwellings and were supplied in accordance with the Aurora Retail Pay As You Go (PAYG) prepayment metering product prior to 1 July 2013. Any prepayment connections or alterations after 30 June 2013 will be supplied under network tariff TAS92 – Residential LV PAYG ToU.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

This network tariff may not be used in conjunction with any other network tariff.

Standard metering services do not apply for this tariff and all metering services will be provided by the Aurora Distribution Business.

15.1. Requirements of water heating systems

In all installations, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements.

Non-compliant systems may be refused connection or disconnected.

15.2. Network tariff prices

Table 9 sets out the prices applicable to this network tariff.

Table 9: Tariff prices for Residential LV PAYG

Aurora Code – TAS101	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
All Energy (c/kWh)	5.662
TUoS Charge	
All Energy (c/kWh)	2.480

16. Residential LV PAYG ToU (TAS92)

This network tariff is for low voltage installations that are premises used wholly or principally as Private Residential Dwellings and are supplied in accordance with a prepayment metering product. There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

This network tariff may not be used in conjunction with any other network tariff.

Standard metering services do not apply for this tariff and all metering services will be provided by the Aurora Distribution Business.

An installation that is supplied under this tariff may be reassigned to network tariff TAS31 – Residential LV General, provided it remains a Private Residential Dwelling.

This network tariff is for low voltage installations that are premises used wholly or principally as Private Residential Dwellings.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

Farm outbuildings may be connected on this tariff provided that the connection is through the meters for the farm residence.

An installation that is supplied under this tariff may be reassigned to network tariff TAS31 – Residential LV General, provided it remains a Private Residential Dwelling.

This network tariff may also be used in conjunction with the following additional network tariff:

- TAS63 – Controlled LV Energy – Night period only.

A Type 6 meter is the minimum required for installations on this network tariff and must be capable of recording time of use data.

16.1. Use of system charges

The use of system charges applicable for this network tariff are composed of the following charging components:

- (a) DUoS
 - (i) A fixed daily charge; and
 - (ii) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 10.
- (b) TUoS
 - (i) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 10.

16.2. Requirements of water heating systems

In all installations, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements.

Non-compliant systems may be refused connection or disconnected.

16.3. Time of use periods

Table 10 sets out the time of use periods applicable to this network tariff.

Table 10: Time periods for Residential LV ToU

Time Period	Tariff Rate
Week Day (07:00 – 11:00) (Monday – Friday)	Peak
Week Day (11:00 – 16:30) (Monday – Friday)	Shoulder
Week Day (16:30 – 22:00) (Monday – Friday)	Peak
Weekend Day (07:00 – 22:00) (Saturday and Sunday)	Shoulder
Any Day (22:00 – 24:00) (Monday – Sunday)	Off-peak
Any Day (0:00 – 07:00) (Monday – Sunday)	Off-peak

16.4. Network tariff prices

Table 11 sets out the prices applicable to this network tariff.

Table 11: Tariff prices for Residential LV ToU

Aurora Code – TAS92	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
Peak Energy (c/kWh)	9.419
Shoulder Energy (c/kWh)	5.831
Off-Peak Energy (c/kWh)	0.821
TUoS Charge	
Peak Energy (c/kWh)	4.251
Shoulder Energy (c/kWh)	2.629
Off-Peak Energy (c/kWh)	0.714

17. Residential LV ToU (TAS93)

This network tariff is for low voltage installations that are premises used wholly or principally as Private Residential Dwellings.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

Farm outbuildings may be connected on this tariff provided that the connection is through the meters for the farm residence.

An installation that is supplied under this tariff may be reassigned to network tariff TAS31 – Residential LV General, provided it remains a Private Residential Dwelling.

This network tariff may also be used in conjunction with the following additional network tariff:

- TAS63 – Controlled LV Energy – Night period only.

A Type 6 meter is the minimum required for installations on this network tariff and must be capable of recording time of use data.

17.1. Use of system charges

The use of system charges applicable for this network tariff are composed of the following charging components:

- (c) DUoS
 - (ii) A fixed daily charge; and
 - (iii) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 12.
- (d) TUoS
 - (iv) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 12

17.2. Requirements of water heating systems

In all installations, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements.

Non-compliant systems may be refused connection or disconnected.

17.3. Time of use periods

Table 12 sets out the time of use periods applicable to this network tariff.

Table 12: Time periods for Residential LV ToU

Time Period	Tariff Rate
Week Day (07:00 – 11:00) (Monday – Friday)	Peak
Week Day (11:00 – 16:30) (Monday – Friday)	Shoulder
Week Day (16:30 – 22:00) (Monday – Friday)	Peak
Weekend Day (07:00 – 22:00) (Saturday and Sunday)	Shoulder
Any Day (22:00 – 24:00) (Monday – Sunday)	Off-peak
Any Day (0:00 – 07:00) (Monday – Sunday)	Off-peak

17.4. Network tariff prices

Table 13 sets out the prices applicable to this network tariff.

Table 13: Tariff prices for Residential LV ToU

Aurora Code – TAS93	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
Peak Energy (c/kWh)	9.419
Shoulder Energy (c/kWh)	5.831
Off-Peak Energy (c/kWh)	0.821
TUoS Charge	
Peak Energy (c/kWh)	4.251
Shoulder Energy (c/kWh)	2.629
Off-Peak Energy (c/kWh)	0.714

18. Business LV ToU (TAS94)

This network tariff is for low voltage installations that are not Private Residential Dwellings.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

A site that is supplied under this network tariff may not be reassigned to network tariffs TAS34 – Business LV Nursing Homes or N02b – General Network Business, Curtilage.

This network tariff may also be used in conjunction with the following additional network tariff:

- TAS63 – Controlled LV Energy – Night period only.

A Type 6 meter is the minimum required for installations on this network tariff and must be capable of recording time of use data.

18.1. Use of system charges

The use of system charges applicable for this network tariff are composed of the following charging components:

- (a) DUoS
 - (i) A fixed daily charge; and
 - (ii) An energy based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being identified in Table 14
- (b) TUoS
 - (i) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 14.

18.2. Requirements of water heating systems

In all installations, for connection on this network tariff, the water heating systems:

- must comply with AS 1056, Storage water heaters; and
- should comply with AS/NZS 3500.4:2003, Plumbing and drainage – Heated waters services and AS 3500.4.1 – 1997, National Plumbing and Drainage – Hot water supply systems – Performance requirements.

Non-compliant systems may be refused connection or disconnected.

18.3. Time of use periods

Table 14 sets out the time of use periods applicable to this network tariff.

Table 14: Time periods for Business LV ToU

Time Period	Tariff Rate
Week Day (07:00 – 22:00) (Monday – Friday)	Peak
Weekend Day (07:00 – 22:00) (Saturday and Sunday)	Shoulder
Any Day (22:00 – 24:00) (Monday – Sunday)	Off-peak
Any Day (0:00 – 07:00) (Monday – Sunday)	Off-peak

18.4. Network tariff prices

Table 15 sets out the prices applicable to this network tariff.

Table 15: Tariff prices for Business LV ToU

Aurora Code – TAS94	2014-15 Tariff
DUoS Charge	
Daily (c/day)	42.677
Peak Energy (c/kWh)	10.386
Shoulder Energy (c/kWh)	6.568
Off-Peak Energy (c/kWh)	0.817
TUoS Charge	
Peak Energy (c/kWh)	4.251
Shoulder Energy (c/kWh)	2.854
Off-Peak Energy (c/kWh)	0.729

19. UMS LV General (TASUMS)

This network tariff is for small, low voltage, low demand installations with a relatively constant load profile. For example:

- illuminated street signs;
- public telephone kiosks;
- electric fences;
- two-way radio transmitters;
- fixed steady wattage installations;
- traffic lights; or
- level crossings.

All installations on this network tariff must have all components permanently connected. For the avoidance of doubt, an installation containing a general purpose outlet does not qualify for this network tariff.

This network tariff may not be used in conjunction with any other network tariff.

This is an unmetered network tariff and will be treated as a Type 7 metering installation.

19.1. Network tariff prices

Table 16 sets out the prices applicable to this network tariff.

Table 16: Tariff prices for UMS LV General

Aurora Code - TASUMS	2014-15 Tariff
DUoS Charge	
Daily (c/day)	41.820
All Energy (c/kWh)	12.748
TUoS Charge	
All Energy (c/kWh)	5.275

20. LV Day/Night (Irrigation) (TAS73)

This network tariff is obsolete and therefore no longer available to new customers.

This low voltage network tariff is for primary producer’s business installations that are used solely for the irrigation of crops and must be classified as ANZSIC class 01.

This network tariff may not be used in conjunction with any other network tariff.

A Type 6 meter is the minimum required for installations on this network tariff and must have the ability to record “peak” and “off-peak” consumption.

This network tariff will be discontinued over a two year period and is not available to any customer after 31 July 2014.

Aurora is in the process of reassigning any remaining customers on this network tariff to network tariff TAS75– LV Irrigation (ToU). The reassignment process will be complete by 31 July 2014.

20.1. Time of use availability

This network tariff is a simple “time of use” tariff, with different rates for “peak” and “off-peak” consumption.

The off-peak rate will be available daily for not less than 10 hours between 20:00 hours and 07:00 hours the following day. In general, the “window” will be of 10 hours duration. Subject to network constraints and at the discretion of Aurora, an 11 hour window may be available upon request.

To provide a “staggered start” to ensure distribution network stability, the off-peak “window” for individual customers will start between 20:00 and 21:00, and end between 06:00 and 07:00 the following day.

Aurora will arrange the start and finish times.

20.2. Network tariff prices

Table 17 sets out the prices applicable to this network tariff.

Table 17: Tariff prices for LV Day/Night (Irrigation)

Aurora Code – N08	2014-15 Tariff
DUoS Charge	
Daily (c/day)	200.964
Day Energy (c/kWh)	6.625
Night Energy (c/kWh)	0.817
TUoS Charge	
Day Energy (c/kWh)	2.957
Night Energy (c/kWh)	0.681

21. Irrigation LV ToU (TAS75)

This low voltage network tariff is for primary producer's business installations that are used solely for the irrigation of crops and must be classified as ANZSIC class 01.

This network tariff may not be used in conjunction with any other network tariff.

A Type 6 meter is the minimum required for installations on this network tariff and must be capable of recording time of use data.

21.1. Use of system charges

The use of system charges applicable for this network tariff are composed of the following charging components:

- (a) DUoS
 - (i) A fixed daily charge; and
 - (ii) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 18.
- (b) TUoS
 - (i) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 18.

21.2. Time of use periods

Table 18 sets out the time of use periods applicable to this network tariff.

Table 18: Time periods for Irrigation LV ToU

Time Period	Summer (1 Oct – 31 Mar)	Winter (1 Apr – 30 Sep)
Week Day (07:00 – 22:00) (Monday – Friday)	Shoulder	Peak
Weekend Day (07:00 – 22:00) (Saturday and Sunday)	Off-peak	Shoulder
Any Day (22:00 – 24:00) (Monday – Sunday)	Off-peak	Off-peak
Any Day (0:00 – 07:00) (Monday – Sunday)	Off-peak	Off-peak

Additionally, Aurora may enter into negotiations with customers on this tariff in reference to the time of use periods applicable. An alteration to the outlined time periods may be considered as a demand management mechanism.

21.3. Network tariff prices

Table 19 sets out the prices applicable to this network tariff.

Table 19: Tariff prices for Irrigation LV ToU

Aurora Code – TAS75	2014-15 Tariff
DUoS Charge	
Daily (c/day)	200.964
Peak Energy (c/kWh)	11.126
Shoulder Energy (c/kWh)	6.625
Off-Peak Energy (c/kWh)	0.817
TUoS Charge	
Peak Energy (c/kWh)	4.516
Shoulder Energy (c/kWh)	2.957
Off-Peak Energy (c/kWh)	0.681

22. Business LV kVA Demand (TAS82)

This network tariff is for installations taking low voltage 3-phase supply.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

This network tariff may not be used in conjunction with any other network tariff.

A Type 6 meter is the minimum required for installations on this network tariff.

22.1. Calculation of demand charges

The demand-based charges for an installation on this network tariff will be calculated as follows:

- (a) the billing period demand-based charge is the sum of the daily demand-based charges for the billing period.
- (b) the daily demand-based charges are equal to the anytime maximum demand recorded during the billing period.

22.2. Network tariff prices

Table 20 sets out the prices applicable to this network tariff.

Table 20: Tariff prices for Business LV kVA Demand

Aurora Code – TAS82	2014-15 Tariff
DUoS Charge	
Daily (c/day)	204.090
All Energy (c/kWh)	2.159
All Demand (c/kVA)	30.804
TUoS Charge	
All Energy (c/kWh/day)	0.939
All Demand (c/kVA/day)	21.817

23. Business HV kVA Specified Demand (TASSDM)

This network tariff is for installations taking supply at high voltage, with an expected ATMD less than 2 MVA.

There are no restrictions on the use of the supply (i.e. the supply may be used for general power, heating, water heating, etc.).

The customer must supply its own transformers and switchgear for installations connected on this network tariff.

This network tariff may not be used in conjunction with any other network tariff.

Metering of consumption for installations on this network tariff is at the HV connection point and must be capable of recording “interval data”.

23.1. Negotiation of specified demand

Customers on this network tariff are able to agree with Aurora a specified demand for their electrical installation. Once agreed this value is used in the calculation of demand charges for the following period.

Negotiation of the specified demand for subsequent periods should be completed at least two months prior to the end of the last negotiated period.

Renegotiation of the specified demand is limited to one occurrence each 12 months or as otherwise agreed with Aurora.

23.2. Use of system charges

The use of system charges applicable for this network tariff are composed of the following charging components:

- (a) DUoS
 - (i) A fixed daily charge; and
 - (ii) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 21; and
 - (iii) A demand-based charge calculated according to the method given in section 23.3. For the purposes of this calculation, the excess demand rate is 10 times the specified demand rate.
- (b) TUoS
 - (i) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 21; and
 - (ii) A demand-based charge calculated according to the method given in section 23.3. For the purposes of this calculation, the excess demand rate is 10 times the specified demand rate.

23.3. Calculation of demand charges

The demand-based charges for an installation on this network tariff will be calculated monthly as follows:

- (a) the monthly demand-based charge is the sum of the daily demand-based charges for the month;
- (b) the daily demand-based charges are:
- (i) if any daily ATMD in the month is less than or equal to 100 per cent of the specified demand, the demand charge for the day will be equal to the specified demand multiplied by the specified demand rate; or
 - (ii) if any daily ATMD in the month is greater than the specified demand, but not greater than 120 per cent of the Specified demand, then the demand charge for the day will be the maximum demand multiplied by the specified demand rate; or
 - (iii) if any daily ATMD in the month is greater than the specified demand by more than 120 per cent, the daily demand charge will be the sum of:
 - 120 per cent of the specified demand multiplied by the specified demand rate; and
 - the difference between the ATMD and 120 per cent of the specified demand multiplied by the excess demand rate.

23.4. Time of use periods

Table 21 sets out the time of use periods applicable to this network tariff.

Table 21: Time periods for Business HV kVA Specified Demand

Time Period	Summer (1 Oct – 31 Mar)	Winter (1 Apr – 30 Sep)
Week Day (07:00 – 22:00) (Monday – Friday)	Shoulder	Peak
Weekend Day (07:00 – 22:00) (Saturday and Sunday)	Off-peak	Shoulder
Any Day (22:00 – 24:00) (Monday – Sunday)	Off-peak	Off-peak
Any Day (0:00 – 07:00) (Monday – Sunday)	Off-peak	Off-peak

23.5. Network tariff prices

Table 22 sets out the prices applicable to this network tariff.

Table 22: Tariff prices for Business HV kVA Specified Demand

Aurora Code – TASSDM	2014-15 Tariff
DUoS Charge	
Daily (c/day)	142.805
Peak Energy (c/kWh)	0.227
Shoulder Energy (c/kWh)	0.183
Off-Peak Energy (c/kWh)	0.061
Specified Daily Demand (c/kVA/day)	21.842
Excess Daily Demand (c/kVA/day)	218.420
TUoS Charge	
Peak Energy (c/kWh)	1.397
Shoulder Energy (c/kWh)	1.037
Off-Peak Energy (c/kWh)	0.642
Specified Daily Demand (c/kVA/day)	1.649
Excess Daily Demand (c/kVA/day)	16.490

24. Business HV kVA Specified Demand (> 2.0 MVA) (TAS15)

This network tariff applies to customers, with an ATMD in excess of 2.0 MVA, supplied directly from the Aurora distribution network with no Aurora owned assets beyond the connection point.

The customer must supply its own transformers and switchgear for HV installations connected on this network tariff.

A site connected to the Aurora distribution network with this network tariff is not eligible for any other network tariff.

Metering of consumption for installations on this network tariff is at the HV connection point and must be capable of recording “interval data”.

24.1. Negotiation of specified demand

Customers on this network tariff are able to agree with Aurora a specified demand for their electrical installation. Once agreed this value is used in the calculation of demand charges for the following period.

Negotiation of the specified demand for subsequent periods should be completed at least two months prior to the end of the last negotiated period.

Renegotiation of specified demand is limited to one occurrence each twelve months or as otherwise agreed with Aurora.

24.2. Use of system Charges

The use of system charges applicable for this tariff are composed of the following charging components.

- (a) DUoS
 - (i) A fixed daily charge; and
 - (ii) An energy-based charge; the rate of the energy charge varies according to the time of day at which energy is consumed, with the periods being as identified in Table 23: Time periods for Business HV kVA Specified Demand (>2MVA)
 - (iii) A demand-based charge calculated according to the method given in section 24.3. For the purposes of this calculation, the excess demand rate is 5 times the specified demand rate.
- (b) Connection
 - (i) A demand-based charge calculated according to the method given in section 24.3. For the purposes of this calculation, the excess demand rate is 5 times the specified demand rate.
- (c) TUoS
 - (i) A demand-based charge calculated according to the method given in section 24.3. For the purposes of this calculation, the excess demand rate is 5 times the specified demand rate.

The TUoS charges for customers connected on this network tariff are based on the actual charges received from the transmission network service provider for the relevant transmission connection point. This provides the greatest cost reflectivity and preserves the pricing signals within the transmission charges for these customers.

24.3. Calculation of demand charges

The demand-based charges for an installation on the network tariff TAS15 will be calculated monthly as follows:

- (a) the monthly demand-based charge is the sum of the daily demand-based charges for the month;
- (b) the daily demand-based charges are:
 - (i) if any daily ATMD in the month is less than or equal to 100 per cent of the specified demand, the demand charge for the day will be equal to the specified demand multiplied by the specified demand rate; or
 - (ii) if any daily ATMD in the month is greater than the specified demand, the daily demand charge will be the sum of:
 - the specified demand multiplied by the specified demand rate; and
 - the difference between the ATMD and the specified demand multiplied by the excess demand rate.

24.4. Time of use periods

Table 23 sets out the time of use periods applicable to this network tariff.

Table 23: Time periods for Business HV kVA Specified Demand (>2MVA)

Time Period	Summer (1 Oct – 31 Mar)	Winter (1 Apr – 30 Sep)
Week Day (07:00 – 22:00) (Monday – Friday)	Shoulder	Peak
Weekend Day (07:00 – 22:00) (Saturday and Sunday)	Off-peak	Shoulder
Any Day (22:00 – 24:00) (Monday – Sunday)	Off-peak	Off-peak
Any Day (0:00 – 07:00) (Monday – Sunday)	Off-peak	Off-peak

24.5. Network tariff prices

Table 24 sets out the prices applicable to this network tariff.

Table 24: Tariff prices for Business HV kVA Specified Demand (>2MVA)

Aurora Code – TAS15	2014-15 Tariff
DUoS Charge	
Daily (c/day)	1,892.600
Peak Energy (c/kWh)	1.794
Shoulder Energy (c/kWh)	0.486
Off-Peak Energy (c/kWh)	0.061
Specified Daily Demand (c/kVA/day)	11.399
Excess Daily Demand (c/kVA/day)	56.995
Connection Charge	
Specified Daily Demand (c/kVA/day)	0.414
Excess Daily Demand (c/kVA/day)	2.070
TUoS Charge	
Specified Daily Demand (c/kVA/day)	As per nodal charge in section 29.
Excess Daily Demand (c/kVA/day)	5 times nodal charge.

25. UMS LV Public Lighting (TASUMSSL)

This low voltage network tariff is for the provision of Aurora’s public lighting services and is available to councils, road authorities and customers wishing to install contract lighting.

The street lighting tariff rate is based on a “use of system charge” and is charged on a per lamp wattage rate. This network tariff charge is an additional charge to that published by Aurora for the provision of public lighting services⁵.

This network tariff does not include charges for the installation and/or replacement of lamps. Costs for installation and/or replacement of lamps are an additional charge and are included in Aurora’s public lighting services tariffs.

This network tariff may not be used in conjunction with any other network tariff.

This is an unmetered network tariff and will be treated as a Type 7 metering installation.

25.1. Calculation of “use of system charge”

The “use of system charge” for a public light on this network tariff TASUMSSL will be calculated as follows.

- (a) the “use of system charge” is the sum of monthly “use of system charges” for each light type.
- (b) the “use of system charge” for each light type is the:
 - (i) the number of lights in the light type, multiplied by;
 - (ii) the assessed wattage of the light type, multiplied by;
 - (iii) the number of days in the billing period, multiplied by;
 - (iv) the published rate.

25.2. Network tariff prices

Table 25 sets out the prices applicable to this network tariff.

Table 25: Tariff prices for UMS LV Public Lighting

Aurora Code – TASUMSSL	2014-15 Tariff
DUoS Charge	
All Demand (c/lamp watt/day)	0.103
TUoS Charge	
All Demand (c/lamp watt/day)	0.041

Note: Does not include charge for light fitting.

⁵ Aurora’s public lighting services tariffs are discussed in Aurora’s Public Lighting Services Application and Price Guide.

26. Feed-In Tariff Scheme

The Tasmanian Government announced reforms to the Tasmanian Electricity Supply Industry that include opening the Tasmanian retail electricity market to full retail competition (FRC) from 1 July 2014.

With the commencement of FRC and the potential entry of new retailers from 1 July 2014, the Tasmanian Government has elected to put in place new feed-in tariff arrangements to ensure that existing and new retail customers who export electricity into the distribution network will receive a fair and reasonable rate for this exported energy. These arrangements will exist for the period from 1 January 2014 to 31 December 2018. These transition arrangements are as follows:

- Feed-in tariff arrangements under Aurora Retail's Net Metering Buyback Scheme were closed to new customers on 31 August 2013.
- All customers with existing arrangements at this date will continue to receive their current feed-in tariff (the 'transitional feed-in tariff') until 31 December 2018.
- Customer that made application for connection of an embedded generation system prior to 31 August 2013 would have their embedded generation system approved by Aurora as an eligible embedded generation system.
- Customers that install an eligible embedded generation system from 31 August 2013 will be entitled to a transitional feed-in tariff until 31 December 2018.
- From 1 January 2014, the Tasmanian Economic Regulator will be required to determine a new fair and reasonable 'standard' feed-in tariff.
- Aurora is required to reimburse electricity retailers for the difference between the transitional and standard feed-in tariff rates.
- Transitional feed-in tariff rates and terms are different for residential and small business customers.

Until the Tasmanian Government announcement, Aurora had a single embedded generation network tariff (e.g. tariff N21). As a consequence, the former network tariff has been split to differentiate between the tariff received by residential and small business customers, creating two new network tariff codes, namely TASX1I and TASX2I. The two new network tariff codes will record the quantity of energy imported into the distribution network. Import network tariffs represent the price at which Aurora will credit retailers for their customers who have embedded generation facilities and are eligible under the Tasmanian Government feed-in arrangements.

For those customers connecting a non-eligible embedded generation facility after 31 August 2013, three new network tariffs have been created, namely TAS4XI (residential standard feed-in), TASX5I (business standard feed-in) and TASX6I (business non-qualifying import).

26.1. Residential LV Import Transitional (TASX1I)

This network tariff is for the recording of 'export energy' for those residential installations that import energy into the distribution system and are eligible for the transitional feed-in tariff rate.

Consistent with the provisions of clause 6.1.4 of the Rules, Aurora does not apply a charge for this network tariff.

Connection charges for embedded generation will always be treated on an individually calculated basis. Terms and conditions for these customers are contained within individually negotiated connection agreements.

A Type 6 meter is the minimum required for installations and a charge for the provision of basic metering services may apply.

26.2. Business LV Import Transitional (TASX21)

This network tariff is for the recording of 'export energy' for those commercial installations that import energy into the distribution system and are eligible for the transitional feed-in tariff rate.

Consistent with the provisions of clause 6.1.4 of the Rules, Aurora does not apply a charge for this network tariff.

Connection charges for embedded generation will always be treated on an individually calculated basis. Terms and conditions for these customers are contained within individually negotiated connection agreements.

A Type 6 meter is the minimum required for installations and a charge for the provision of basic metering services may apply.

26.3. Residential LV Import Fair and Reasonable (TASX4I)

This network tariff is for the recording of 'export energy' for those residential installations that import energy into the distribution system and are eligible for the fair and reasonable tariff rate.

Consistent with the provisions of clause 6.1.4 of the Rules, Aurora does not apply a charge for this network tariff.

Connection charges for embedded generation will always be treated on an individually calculated basis. Terms and conditions for these customers are contained within individually negotiated connection agreements.

A Type 6 meter is the minimum required for installations and a charge for the provision of basic metering services may apply.

26.4. Business LV Import Fair and Reasonable (TASX5I)

This network tariff is for the recording of 'export energy' for those commercial installations that import energy into the distribution system and are eligible for the fair and reasonable feed-in tariff rate.

Consistent with the provisions of clause 6.1.4 of the Rules, Aurora does not apply a charge for this network tariff.

Connection charges for embedded generation will always be treated on an individually calculated basis. Terms and conditions for these customers are contained within individually negotiated connection agreements.

A Type 6 meter is the minimum required for installations and a charge for the provision of basic metering services may apply.

26.5. Non-Qualifying Import (TASX6I)

This network tariff is for the recording of 'export energy' for those installations that import energy into the distribution system and are not eligible for any feed-in tariff arrangement.

Consistent with the provisions of clause 6.1.4 of the Rules, Aurora does not apply a charge for this network tariff.

Connection charges for embedded generation will always be treated on an individually calculated basis. Terms and conditions for these customers are contained within individually negotiated connection agreements.

A Type 6 meter is the minimum required for installations and a charge for the provision of basic metering services may apply.

27. Individual Tariff Calculation

Individual Tariff Calculation (ITC) network prices will typically apply to customers with an electrical demand in excess of 2.0 MVA or where a customer's circumstances in a pricing zone identifies that the average shared network charge to be meaningless or distorted. Individually calculated customer network charges are determined by modelling the connection point requirements as requested by the customer or their agents.

ITC prices are based on actual transmission use of system (TUoS) charges for the relevant transmission connection point (preserving the pricing signals within the transmission charges), plus charges associated with the actual shared distribution network utilised for the electricity supply, plus connection charges based on the actual connection assets utilised. This provides the greatest cost reflectivity for this type of customer and is feasible since the number of such customers is relatively small.

ITC pricing is also justified by virtue of the shared distribution network assets being designated specifically to meet the requirements of these customers. Where the designation of shared network assets is difficult due to the specific connectivity of the customer, Aurora will apply ITC pricing on a mutually agreed basis.

ITC pricing can also be influenced by the load factor of the Customer's installation.

ITC pricing for customers with electrical demand that is less than 2.0 MVA could occur where:

- a customer has a dedicated supply system that is different and separate from the remainder of the supply network;
- there are only a small number of customers in a supply system making average prices inappropriate; or
- inequitable treatment of otherwise comparable customers arises from the electrical demand lower limit of 2.0 MVA. Selection of these customers will be at Aurora's discretion.

28. Embedded Generation

Network tariff charges for embedded generation connections will always be treated on an individually calculated basis.

With respect to avoided TUoS for embedded generators, Aurora calculates the avoided TUoS for all embedded generators that export to its distribution network at the same rates for the locational component which would be applied to a load of similar size at the same connection point.

This payment of avoided TUoS charges to embedded generators is as required under clauses 5.5(h), 5.5(i) and 5.5(j) of the Rules. These avoided TUoS payments to embedded generators are recouped through the recovery mechanism for the TUoS charges.

29. Locational TUoS charges

Locational TUoS charges for those customers supplied under network tariffs TAS15 – HV kVA Specified Demand (> 2.0 MVA) and ITC – Individual Tariff Calculation will apply for the transmission connection sites detailed in Table 26.

Table 26: Transmission Connection Sites

Transmission node description	Transmission node identifier	Daily charge c/kVA/day
Arthurs Lake	TAL2	19.379
Avoca	TAV2	26.214
Burnie	TBU3	20.711
Bridgewater	TBW2	22.070
Derwent Bridge	TDB2	347.199
Derby	TDE2	44.172
Devonport	TDP2	23.186
Emu Bay	TEB2	28.391
Electrona	TEL2	29.253
Kermandie	TKE2	45.268
Kingston 11kV	TKI2	27.911
Kingston 33kV	TKI3	25.391
Knights Road	TKR2	30.529
Meadowbank	TMB2	24.252
New Norfolk	TNN2	25.065
Newton	TNT2	47.156
Port Latta	TPL2	25.885
Palmerston	TPM3	25.227
Queenstown	TQT2	35.876
Railton	TRA2	23.116
Rosebery	TRB2	23.542
Scottsdale	TSD2	47.072
St Marys	TSM2	34.937
Sorell	TSO2	29.153
Savage River	TSR2	27.897
Smithton	TST2	31.357
Triabunna	TTB2	34.632

Transmission node description	Transmission node identifier	Daily charge c/kVA/day
Tungatinah	TTU2	93.500
Ulverstone	TUL2	22.242
Waddamana	TWA2	41.288
Wesley Vale	TWV2	51.852
Hobart Virtual	TVN1	22.090
Tamar Virtual	TVN2	18.652

29.1. Virtual nodes

Due to the interconnected nature of the Hobart region, transmission nodes (TCS3, TCR2, TLF2, TMT2, TNH2, TRI4 and TRK2) are averaged as a single Virtual Transmission Node (VTN) in accordance with the provisions of the Rules. The transmission node identifier for this VTN is TVN1.

Table 27: Hobart region virtual transmission nodes

Transmission node identifier	Transmission node description
TCR2	Creek Road
TCS3	Chapel Street
TLF2	Lindisfarne
TMT2	Mornington
TNH2	North Hobart
TRI4	Risdon
TRK2	Rokeby

Due to the interconnected nature of the Launceston/Tamar region, transmission nodes (TGT3, THA3, TMY2, TNW2, TSL2 and TTR2) are averaged as a single VTN in accordance with the provisions of the Rules. The transmission node identifier for this VTN is TVN2.

Table 28: Tamar region virtual transmission nodes

Transmission node identifier	Transmission node description
TGT3	George Town
THA3	Hadspen
TMY2	Mowbray
TNW2	Norwood
TSL2	St Leonards
TTR2	Trevallyn

30. Definitions

AER	Australian Energy Regulator.
ATMD	The maximum demand at anytime during a day within a billing period.
AS/NZS	Australia and New Zealand Standards.
Aurora	Unless otherwise stated means Aurora Energy Pty Ltd ABN 85 082 464 622 in its capacity as a Distribution Network Service Provider.
Billing period	The period covered by the bill sent to a retailer or customer.
Connection point	In relation to a Customer, the point at which electricity leaves the Distribution System for delivery to the Customer provided that where the Customer's Electrical Installation is not directly connected to the Distribution System, the Connection Point is the point at which the electricity last leaves the Distribution System before being delivered to the Customer, whether or not the electricity passes through facilities owned or operated by another person before being delivered to the Customer.
Customer	A person to whom Aurora provides regulated services.
Deemed Supply Contract	Aurora's adopted form of the <i>deemed standard connection contract</i> as amended and published by Aurora from time to time.
Distribution network	As defined in the Tasmanian Electricity Code.
Distribution network service provider	A person who engages in the activity of owning, controlling, or operating a Distribution System.
Distribution system	As defined in the NER.
Distribution use of system (DUoS)	A charge to a Distribution Network user for use of the Distribution System for the conveyance of electricity.
Electrical contractor	An electrical contractor is a business person who is highly trained and is also registered to employ electricians to help install and design electricity.
Embedded generation	A generation unit connected within a Distribution System and not having direct access to a Transmission System.
Excess demand	The difference between the Specified Demand and the Maximum Demand – the additional demand for a specific period and charged at the agreed charge rate.
Generation unit	The actual generator of electricity and all the related equipment essential to its functioning as a single entity.
HV or High Voltage	A voltage exceeding 1,000 volts.
Interval metering services	Reading services for interval meters – types 1-5 as defined in the NER and provision of other services.

Irrigation	The provision of water pumping capability that facilitates primary production.
ITC	Has the meaning “Individual Tariff Calculation”.
Load factor	This is the ratio of a Customer’s average electrical load divided by the maximum electrical load.
LV or Low Voltage	A voltage not exceeding 1,000 volts.
Maximum demand	The highest amount of electrical power delivered, or forecast to be delivered, over a defined period (day, week, month, season or year) either at a connection point, or simultaneously at a defined set of connection points.
National electricity market (or NEM)	As defined in the Tasmanian Electricity Code.
NECF	National Energy Customer Framework.
NER or Rules	National Electricity Rules.
Network	The apparatus, equipment, plant and buildings used to convey, and control the conveyance of, electricity to customers (whether wholesale or retail) excluding any connection assets. In relation to a Network Service Provider, a network owned, operated or controlled by that Network Service Provider.
Network Tariff	Means the schedule of fees (including the rate or rates) Aurora uses to calculate the amount it charges customers, or a class of customers, for network services, as amended from time to time.
Network Use of system (NUoS)	A charge to a Network user for use of the Distribution and or Transmission System for the conveyance of electricity.
Obsolete tariff	Network tariffs that have been superseded but remain in place until such time as they are rescinded or the electrical configuration of a Customer’s installation is altered.
Private Residential Dwelling	A reference to a private residential dwelling is a house, unit, town house or apartment and is a reference to an establishment that, in the reasonable opinion of Aurora is not classifiable under the Australian and New Zealand Standard Industrial Classification (ANZSIC). The ANZSIC system is based on businesses, and it is used to classify businesses. It includes any organisation, which provides goods and services, including companies, non-profit organisations, government departments and enterprises.
Published tariffs	Those network tariffs published from time to time, usually annually, by Aurora.
Registered Electrician	A Person or Company licensed under the Electricity Industry Safety and Administration Act 1997 and the Occupational Licensing Act 2005 to perform maintenance, alteration or installation work on electrical infrastructure and associated fittings.
Retailer of choice	The customer’s current or chosen electricity retailer.

Special Meter Read	As defined in the Fee-based Services Application and Price Guide
Specified demand	Means the value of the electrical demand at the site to which the Specified Demand network tariff applies as nominated by the operator of that site to Aurora.
Supply voltage	The nominal voltage measured at the Connection Point.
Time of use	A tariff application that has variable rates dependent on the time of day electricity is consumed.
Transend	Unless otherwise stated means Transend Networks Pty Ltd ABN 57 082 586 892 in its capacity as a Transmission Network Service Provider.
Transmission network	As defined in the Tasmanian Electricity Code.
Transmission system	As defined in the Tasmanian Electricity Code.
Transmission use of system (TUoS)	A charge to a Transmission Network user for use of the Transmission System for the conveyance of electricity.