



Public Lighting 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
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Amendments to each version of this document will be tracked through Aurora's document management system.

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1. Introduction

This 2014-15 Public Lighting Tariff Application and Price Guide outlines Aurora's tariff terms and prices for the provision of Alternative Control Services – public lighting services and applies from 1 July 2014 to 30 June 2015.

This 2014-15 Public Lighting Tariff Application and Price Guide sets out those services provided by Aurora for:

- the provision, maintenance and replacement of public lighting assets owned by Aurora (street lighting);
- the maintenance of public lighting assets owned by customers (contract lighting); and
- the provision, maintenance and replacement of Aurora owned public lighting poles (surcharge poles).

Public lighting services that are not included in this guide are:

- the alteration and relocation of public lighting assets, which will be provided on a quoted service basis and is therefore categorised as a quoted (non-standard) service;
- the installation of contract lights, which will be provided on a quoted service basis and is therefore categorised as a quoted (non-standard) service; and
- the provision of new public lighting technologies, which will be classified as a negotiated distribution service.

Further information on Aurora's public lighting 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. Background

Aurora operates and maintains the street lighting system throughout Tasmania on behalf of councils and other Government road authorities. The objective of public lighting is to provide a lit environment conducive to the safe and comfortable movement of vehicular and pedestrian traffic during hours of darkness and the discouragement of illegal acts.

The street lighting provided for the community to illuminate outdoor public access areas after dark includes the management of luminaire, fixtures, support brackets and control systems but excludes the support structures.

Aurora's street lighting is classified in accordance with AS/NZS1158 into the following categories:

- **Category 'V'** - generally referred to as major fittings, is applicable for roads where the visual requirements of motorists are dominant.
- **Category 'P'** - generally referred to as minor fittings, is applicable for roads where the visual requirements of pedestrians are dominant. Also applicable to outdoor public areas, other than roads, where the visual requirements of pedestrians are dominant. eg outdoor shopping precincts.

Aurora will determine the category of 'V' or 'P' public lighting services in accordance with AS/NZS1158 when erecting a luminaire.

Aurora has two additional categories of lighting services which fall under the public lighting umbrella and includes contract lights and surcharge poles.

Aurora owns the majority of the luminaires. Approximately 75 per cent of public lighting is supported on distribution poles. The remaining public lighting is on dedicated poles, which in most cases is privately owned. There are 28 councils plus the Department of Infrastructure, Energy and Resources (DIER); Tasports; Government Business Enterprises (GBE's); contract clients etc, who potentially have some ownership interest as well as being paying clients.

3. Application of public lighting tariffs

3.1. Aurora

All references to Aurora within this Public Lighting Services 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.

3.2. Goods and service tax (GST)

The public lighting services prices and tariffs published by Aurora, unless otherwise stated, are exclusive of GST.

3.3. Public lighting charges

The calculation of public lighting charges for Aurora provided public lighting services are based on the costs associated with installing and maintaining the fitting and bracket. Public lighting services consist of repair, replacement and maintenance of existing public lighting assets and the provision of new public lighting assets.

Public lighting tariffs do not include charges for the utilisation of Aurora's distribution network. Costs for the use of the distribution network are an additional charge and are included in Aurora's network tariffs².

The public lighting tariffs within this Public Lighting Services Application and Price Guide are calculated in accordance with the AER's distribution determination.

3.4. Obsolete tariffs

There are a number of public lighting tariffs that Aurora has classified as obsolete. An obsolete public lighting 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 fitting or the fitting requires replacement as a result of a fault.

Obsolete fittings may be either maintained or replaced by Aurora at the time of fault rectification. Replacement fittings will be in accordance with Table 1. As a general rule, globes will be replaced with like globes whereas fittings (luminaires) will be replaced with a differing luminaire type.

Customers, who choose to transfer or remove an obsolete luminaire, will lose all rights to revert back to that luminaire at a later date.

A current or new fitting must be selected when transferring to a new luminaire.

² Aurora's network tariff for street lighting is discussed in Aurora's Network Tariff Application and Price Guide.

Table 1: Obsolete fittings

Luminaire (existing)	Category	Luminaire (new)
50W Mercury Vapour	Obsolete	42W Compact Fluorescent
80W Mercury Vapour – Aeroscreen	Obsolete	42W Compact Fluorescent
80W Mercury Vapour – Art Decorative	Obsolete	42W Compact Fluorescent
125W Mercury Vapour	Obsolete	100W Sodium Vapour or 100W Metal Halide
250W Mercury Vapour	Obsolete	150W Sodium Vapour or 150W Metal Halide
400W Mercury Vapour	Obsolete	250W Sodium Vapour or 250W Metal Halide

3.5. Abolished tariffs

There are a number of public lighting tariffs that Aurora has abolished. An abolished public lighting tariff is no longer available to any customer. Abolished fittings have been replaced in accordance with Table 2. As a general rule, globes have been replaced with like globes whereas fittings (luminaires) have been replaced with a differing luminaire type.

Table 2: Abolished fittings

Luminaire (extinct)	Category	Luminaire (new)
2x20W Fluorescent	Extinct	42W Compact Fluorescent
2x40W Fluorescent	Extinct	42W Compact Fluorescent
60W Incandescent	Extinct	42W Compact Fluorescent

3.6. Change, installation or removal of luminaire

Where a new public lighting service is provided mid-month, the charge for the provision of the lighting service will apply for the entire month.

Where a public lighting services is discontinued mid-month, the charge for the provision of the lighting service will apply for the entire month.

Where a change in the public lighting service type occurs mid-month (e.g. 125W mercury vapour to 100W high pressure sodium vapour) the charge for the provision of both lighting types will apply for the entire month.

3.7. Invoicing process

Aurora raises all retailer invoices on a monthly basis as per the charges detailed in this Guide.

Contract light volumes are updated on a monthly basis with street light volumes updated on a monthly basis.

4. Assigning and reassigning customers to tariff classes

Aurora assigns customers to tariffs on the basis of the public lighting service selected. Customers are assigned into one of following tariff classes:

- street lighting;
- contract lighting; and
- surcharge poles.

Customers are assigned to at least one tariff class. Assignment to tariff classes is based on the customer's choice of lighting.

4.1. Reassignment of public lighting tariffs

Customers seeking a change in public lighting service will be reassigned to a new public lighting tariff at the commencement of the next billing period for the customer.

Customers will thereafter remain on the reassigned public lighting tariff.

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.

Where Aurora changes the luminaire of an obsolete fitting type to that of a new fitting type, the customer will be reassigned to a new public lighting tariff at the commencement of the next billing period for the customer. Aurora will advise the customer that this tariff reassignment has occurred; notification will coincide with the forthcoming billing period.

Customers will thereafter remain on the reassigned public lighting tariff.

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.

5. 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.

5.1. 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.

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 tariff assignment that should apply;
- (d) the proposed tariff assignment will be reviewed and approved by the Manager Revenue Assurance; and
- (e) 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.

5.2. 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.

5.3. Final tariff class assignment

5.3.1. Initial tariff assignment

Where a customer has initially been assigned to a public lighting tariff as a component of that customer's connection of a public light 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 public lighting 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.

5.3.2. Tariff reassignment

Where a customer has been notified that they will be reassigned to a public lighting 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.

6. Street lighting

6.1. Major fittings

Major public lighting has historically been a combination of light sources including mercury vapour and low and high pressure sodium vapour. The majority of new fittings installed for major public lighting are high pressure sodium vapour fittings with power factor correction installed. Major public lighting is designed and installed on major roads to a specified level as documented in Australian Standards AS/NZS 1158 Series and AS/NZS 3771 or as requested and agreed by the respective road authority.

The daily charges for the provision of major fittings for the period 1 July 2014 to 30 June 2015 are presented in Table 3.

Table 3: Major fittings

Fitting Type	Tariff (c/day)
Current/New Fittings	
100W Sodium Vapour	35.508
150W Sodium Vapour	39.248
250W Sodium Vapour	39.369
400W Sodium Vapour	39.565
150W Metal Halide	39.248
250W Metal Halide	39.369
Obsolete Fittings	
125W Mercury Vapour	38.106
250W Mercury Vapour	38.548
400W Mercury Vapour	42.826

6.2. Minor fittings

Minor public lighting is installed to a standard; however the spacing of luminaires is usually determined by what poles are available and what costs the road authority will accept. Public lighting in subdivisions with underground supply is installed on dedicated columns that are spaced according to public light spacing specifications for the luminaires used at the time of installation.

The daily charges for the provision of minor fittings for the period 1 July 2014 to 30 June 2015 are presented in Table 4.

Table 4: Minor fittings

Fitting Type	Tariff (c/day)
Current/New Fittings	
70W Sodium Vapour	35.246
42W Compact Fluorescent	35.190
Obsolete Fittings	
80W Mercury Vapour – Aeroscreen	33.094
80W Mercury Vapour – Art Decorative	52.427
50W Mercury Vapour	33.094

7. Contract lighting

Contract lighting are lights that provide a direct benefit to a customer. Contract lighting may be on Aurora poles and connected to the public lighting circuit or on private poles and buildings, and all components of the installation including the light fitting and arm are maintained at the customers cost, except for replacement of the globe which is part of the contract lighting tariff.

The daily charges for the provision of contract lighting for the period 1 July 2014 to 30 June 2015 are presented in Table 5.

Table 5: Contract lighting

Fitting Type	Tariff (c/day)
Current/New Fittings	
70W Sodium Vapour	22.786
150W Sodium Vapour	24.302
250W Sodium Vapour	24.268
400W Sodium Vapour	24.340
150W Metal Halide	24.302
250W Metal Halide	24.268
400W Metal Halide	24.268
Obsolete Fittings	
50W Mercury Vapour	22.607
80W Mercury Vapour – Aeroscreen	22.596
125W Mercury Vapour	23.613
250W Mercury Vapour	23.683
400W Mercury Vapour	23.736
1x20W Fluorescent	22.659
2x20W Fluorescent	22.774
1x40W Fluorescent	22.667
2x40W Fluorescent	23.792
3x40W Fluorescent	23.915
4x40W Fluorescent	24.716
60W Incandescent	22.594
100W Incandescent	23.598

8. Surcharge poles

Steel road lighting poles are principally owned by the authority who is the customer for that public light and as such, any maintenance and activity related to this pole is the responsibility of the customer.

Historically, road lighting poles were installed at Aurora's cost and an annual surcharge was applied to the responsible authority to recover the costs associated with the assets. This practice has now ceased with all poles now being owned by the authority for which the public light is installed.

The daily charges for the provision of contract lights for the period 1 July 2014 to 30 June 2015 are presented in Table 6.

Table 6: Surcharge Poles

Surcharge Poles	c/day
Surcharge Pole	20.733

9. Definitions

Abolished Tariff	Street lighting tariffs that have been superseded and are no longer available to any customer.
AER	Australian Economic Regulator.
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.
Customer	A person to whom Aurora provides regulated services.
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.
Energy Ombudsman	The Energy Ombudsman of Tasmania and the work undertaken by this office under the <i>Energy Ombudsman Act 1998</i> .
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, and for network services and metering services associated with a Type 5, 6 or 7 installation, as amended from time to time.
Obsolete Tariff	Street lighting tariffs that have been superseded but remain in place for existing customers until such time as they are rescinded or the electrical configuration of a Customer's installation is altered.