



# Aurora Energy - Street Lighting Services

Prices for the provision of  
Street Lights  
for the period  
1 July 2010 until 30 June 2011

Version 2.0  
May 2010

**Street Lighting Services rates for the period 1 July 2010 to 30 June 2011**

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Document History

<b>Date</b>	<b>Version</b>	<b>Comments</b>
5 May 2010	1.0	Original
30 May 2010	2.0	Amendments to 1X40w and 2X40w Fluorescent

## **Background**

Provision of Street Lighting is an 'excluded service' – unregulated and therefore excluded from the regulated maximum allowable revenue for the Distribution Business.

Aurora operates and maintains the street lighting system throughout Tasmania on behalf of councils and other Government road authorities. The objective of street 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 public lighting provided for the community to illuminate outdoor public access areas after dark includes management of luminaire, fixtures, support brackets and control systems but excludes the support structures. Poles and lighting structures revenues are included in the calculation of maximum allowable revenue for distribution services.

Aurora's street lighting are classified by AS/NZS:1158 into the following categories:

- **Category 'V'** - generally referred to as major public street lighting, is applicable for roads that the visual requirements of motorists are dominant.
- **Category 'P'** - generally referred to as minor public lighting, is applicable for roads that 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 has three additional categories of Lighting Services which fall under the street lighting umbrella and include, Surcharge Poles; NUoS charges for privately owned fittings, and Contract Lights. Lighting Service charges are based on an annual fee for charges relating to the use of Aurora owned assets and charges for usage of the network system.

Aurora owns the majority of the luminaires. Approximately 75 percent of street lighting is supported on distribution poles. The other 25 percent of street lighting is on dedicated poles and in most cases privately owned. There are 28 councils plus Department of Infrastructure, Energy & Resources (DIER), Marine Boards, Government Business Enterprises (GBE's), contract clients etc, who potentially have some ownership interest as well as being paying clients.

**Proposed Prices for the Period 1 July 2010 to 30 June 2011**

The charges that Aurora is proposing for the period 1 July 2010 to 30 June 2011, are detailed below and are categorised as Major and Minor fittings and Lighting Services.

Major Fittings

Major street lighting has historically been a combination of light sources including Mercury Vapour and Low and High Pressure Sodium Vapour. All new fittings installed for major street lighting are High Pressure Sodium Vapour with power factor correction installed. Major street 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 proposed charges for the period 1 July 2010 to 30 June 2011 are presented in Table 1.

**Table 1 – Major Fittings**

<b>Major</b>	<b>Network Component</b>	<b>NUoS Component</b>	<b>Annual Charge</b>
<b>Current/New Fittings</b>			
100W High Pressure Sodium Vapour	124.68	41.47	\$ 166.15
150W High Pressure Sodium Vapour	129.27	62.20	\$ 191.48
250W High Pressure Sodium Vapour	116.24	103.67	\$ 219.92
400W High Pressure Sodium Vapour	34.70	165.88	\$ 200.58
100W Metal Halide	137.41	41.47	\$ 178.88
150W Metal Halide	140.06	62.20	\$ 202.26
250W Metal Halide	140.90	103.67	\$ 244.57
400W Metal Halide	146.34	165.88	\$ 312.22
<b>Obsolete Fittings</b>			
125W Mercury Vapour	106.60	51.84	\$ 158.43
250W Mercury Vapour	83.01	103.67	\$ 186.69
400W Mercury Vapour	1.40	165.88	\$ 167.28
600W High Pressure Sodium Vapour	1.40	248.82	\$ 250.22
90W Low Pressure Sodium Vapour	150.22	37.32	\$ 187.55

## Street Lighting Services rates for the period 1 July 2010 to 30 June 2011

### Minor Fittings

Minor street lighting is primarily Mercury Vapour. All new minor street lighting installations are 80 watt Mercury Vapour with power factor correction fitted. Minor public lighting is installed to a standard, however the spacing of luminaires is usually determined by what poles are available and to what costs the councils will accept. Street lighting in underground subdivisions is installed on dedicated columns that are spaced according to street light spacing specifications for the luminaires used at the time of installation.

The proposed charges for the period 1 July 2010 to 30 June 2011 are presented in Table 2.

**Table 2 – Minor Fittings**

Minor	Network Component	NUoS Component	Annual Charge
<b>Current/New Fittings</b>			
80W Mercury Vapour	101.58	33.18	\$ 134.76
70W High Pressure Sodium Vapour	121.14	29.03	\$ 150.17
70 watt Metal Halide	137.76	29.03	\$ 166.79
2 x 24 watt 'T5' Fluorescent	137.33	19.91	\$ 157.24
42 watt compact Fluorescent	117.22	17.42	\$ 134.64
80 watt Mercury vapour Decorative Range	194.97	33.18	\$ 228.14
88 LED Light	139.48	38.57	\$ 178.04
118 LED Lights	172.18	51.01	\$ 223.19
<b>Obsolete Fittings</b>			
2 x 20W Fluorescent	120.17	16.59	\$ 136.75
4 x 20W Fluorescent	186.79	33.18	\$ 219.97
4 x 40W Fluorescent	185.67	66.35	\$ 252.02
100W Incandescent	152.58	41.47	\$ 194.05
60W Incandescent	162.66	24.88	\$ 187.54
50W Mercury Vapour	98.78	20.73	\$ 119.52
18W Low Pressure Sodium Vapour	144.84	7.46	\$ 152.30
1x40W Fluorescent	113.43	16.59	\$ 130.02
2x40W Fluorescent	113.43	33.18	\$ 146.61

Lighting Services

Lighting services are the services Aurora offer that fall outside of the realm of Major and Minor Fittings, but fall under the umbrella of street lighting. Lighting services include Surcharge Poles, Network Use of System and Contract Lights. An annual charge is charged to customers for lighting services and the charges are set out in the tables below.

- Surcharge Poles

Steel road lighting poles are principally owned by the authority who is the customer for that street 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 costs of the assets. This practice has now ceased with all poles now being owned by the authority for whom the street light is installed.

The proposed charges for the period 1 July 2010 to 30 June 2011 are presented in Table 3.

**Table 3 – Surcharge Poles**

<b>Surcharge Poles</b>	<b>Annual Charge</b>
St Pole 6m	\$ 64.48
St Pole 7.5-11m	\$ 90.66
St Pole 12m	\$ 142.88
St Pole 18.3m	\$ 231.43
Wall Bracket	\$ 31.36

- NUoS charges for Fittings

NUoS charges for fittings are the network charges attributable to customers connected to the network, for the provision of services directly related to transmission and distribution use of system, for those fittings that are maintained by Aurora for and on behalf of a customer.

The proposed charges for the period 1 July 2010 to 30 June 2011 are presented in Table 4.

**Table 4 – NUoS Charges**

<b>NuOS Charges for Fittings that are not supplied by Aurora</b>	<b>Annual Charge</b>
20W Fluorescent Telecom 24hr supply	\$ 30.33
20W Fluorescent Telecom street light	\$ 8.29
60W Incandescent Telecom street light	\$ 24.88
40W Fluorescent Telecom 24hr supply	\$ 58.24
1200W Incandescent Airway Hazard Beacon	\$ 497.64
300W Tungsten Halogen	\$ 124.41
1500W Quartz Halogen	\$ 622.05

## Street Lighting Services rates for the period 1 July 2010 to 30 June 2011

- Contract Lights

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

The proposed charges for the period 1 July 2010 to 30 June 2011 are presented in Table 5.

**Table 5 – Contract Lights**

<b>Contract Lights</b>	<b>Annual Charge</b>
60W Incandescent	\$ 179.37
100W Incandescent	\$ 243.09
200W Incandescent	\$ 311.54
500W Incandescent	\$ 566.09
20W Fluorescent	\$ 68.00
2 x 20W Fluorescent	\$ 98.87
3 x 20W Fluorescent	\$ 123.46
4 x 20W Fluorescent	\$ 154.84
40W Fluorescent	\$ 84.53
2 x 40W Fluorescent	\$ 132.24
3 x 40W Fluorescent	\$ 174.09
4 x 40W Fluorescent	\$ 216.10
50W Mercury Vapour	\$ 111.05
80W Mercury Vapour	\$ 126.19
125W Mercury Vapour	\$ 193.65
250W Mercury Vapour	\$ 330.94
400W Mercury Vapour	\$ 507.79
70W High Pressure Sodium Vapour	\$ 164.94
150W High Pressure Sodium Vapour	\$ 227.58
250W High Pressure Sodium Vapour	\$ 329.86
400W High Pressure Sodium Vapour	\$ 512.54
150W Metal Halide	\$ 268.49
250W Metal Halide	\$ 358.31
400W Metal Halide	\$ 484.47
1500W Quartz Halogen	\$ 1,478.48