

## Commercial Grade - AC Bollard vs Solar Import Bollard vs SBL2 Series Bollard

Description		AC POWERED	IMPORTED SOLAR BOLLARD	SBL2 SERIES
Lamp Wattage AC PL COMPACT FLURO	11			
Quantity of Units required based on AS/NZS1158.3.1 2020		50	60	60
Total watts hours used per day averaged annually	6,600			
12				
Total Kilowatts used per day	6.60			
Kilowatts used per year	2,409.00			
2021- 526.9 grams of carbon dioxide equivalent per kWh	<b>Cost per kWh</b>	\$0.30		
<b>Kilowatts Progressive - Cost of Co2 Per Tonne Australia \$54.50 (AC POWERED DATA ONLY)</b>		<b>Power Cost</b>	<b>Co2 Produced Per Tonne</b>	<b>Total Co2 Cost Per Tonne</b>
Year 1	2,409.00	\$ 722.70	1.27	\$ 69.19
Year 5	12,045.00	\$ 3,613.50	6.35	\$ 345.95
Year 10	24,090.00	\$ 7,227.00	12.70	\$ 691.90

### 10 Year End Of Life Costs Assumptions

	AC POWERED	IMPORTED SOLAR BOLLARD	SBL2 SERIES
Labour Cost Per Change Over Average	\$ 12.00		
Lamp Cost for AC	\$ 5.95		
Lamp Life Hours (5,000-10,000 hours)	10,000		
Lamp Replacement Times Required	2.3		
Lamp Change Over Cost Amortised P/A	\$ 128.43		
Total Annual Power Costs P/A	\$ 722.70		
Total Annual Co2 Cost P/A	\$ 69.19		
Annual Maintenance Clean @ \$5 P/A	\$ 250.00	\$ 300.00	\$ 300.00
<b>Total Operational Cost of Total Units P/A</b>	<b>\$ 1,170.32</b>	<b>\$ 300.00</b>	<b>\$ 300.00</b>

### Initial Installed Cost Per System (Insert Average Price Per Unit Only)

Bollard Light Type Cost	AC POWERED	IMPORTED SOLAR BOLLARD	SBL2 SERIES
Quality Vandal Resistant Bollard Asset Cost P/U - VOLUME ORDER PRICING <i>(excludes freight charges &amp; packaging disposal costs)</i>	\$ 400.00	\$ 500.00	\$ 800.00
Expected Asset Replacement over 10 years <i>(Due to Vandalism/Fatigue/Failure/FloodCorrosion)</i>	3.0	3.0	1
<b>Total Bollard Light Asset Cost of Total Units</b>	<b>\$ 60,000.00</b>	<b>\$ 90,000.00</b>	<b>\$ 48,000.00</b>
Installation	AC POWERED	IMPORTED SOLAR	SBL2 SERIES
Trenching Cost Between Poles (1 x 10m Pole Spacing Only \$130 p/m) <i>Does not allow for cable run from DB</i>	\$ 130.00		
Cable Cost Between Poles (1 x 10m Pole Spacing Only \$2 p/m ) <i>Does not allow for cable run from DB</i>	\$ 20.00		
Pole /System Erection Per Unit P/U	\$ 150.00	\$ 130.00	\$ 130.00
<b>Total Initial Installation Cost P/U</b>	<b>\$ 300.00</b>	<b>\$ 130.00</b>	<b>\$ 130.00</b>
<b>Total Asset Replacement Cost Expected over 10 years with removal and replacement P/U</b>	<b>\$ 1,500.00</b>	<b>\$ 1,760.00</b>	
Transformer and/or power to site (Single Cost if no low voltage at DB) <b>add \$70,000</b>	\$ -		
<b>Total Cost Based On Quantity of Units</b>	<b>\$ 90,000.00</b>	<b>\$ 113,400.00</b>	<b>\$ 7,800.00</b>
<b>OVERALL END OF LIFE COST OVER 10 YEARS</b>	<b>\$ 161,703.15</b>	<b>\$ 206,400.00</b>	<b>\$ 58,800.00</b>

### Variance at End of Life 10 Years

(Note: SBL2 Series Bollard Pole has expected operational Life Exceeding 30 years + Solar Luminaire up to 15 years)

**DOES NOT INCLUDE FREIGHT / PACKAGING DISPOSAL / OLD ASSET DISPOSAL COSTS**

Disclaimer: all information is based upon historical best guess analysis of individual product life spans