



LEADSUN
EST. 2005

ALWAYS DEPENDABLE

SMART Public Lighting

Who are we?



We Are Leadsun

ILLUMINATING CITIES OF THE FUTURE

Revolutionizing Public Lighting



World's leading
authority since 2005



World's first all-in-one
LED solar streetlight



Over 20 years patents on
our proprietary technology



Over 300,000
systems deployed
worldwide



Partnering with
over 100 councils
Australia-wide



Brand Promise
ALWAYS DEPENDABLE

Applications

Area



Arcade Creek Park, CA, USA

- Parks and Rec Areas
- Playgrounds
- Skate parks
- Dog parks

Pathways



Enchanted Hills, CA, USA

- Shoreline Pathway
- Hiking Areas
- Piers, Gardens

Parking Lots



Montano De El Dorado, CA, USA

- New Construction
- Existing

Applications

Residential



Epperson Estate, Florida, USA

- Estates
- Retirement villages
- Caravan parks

Streets



Middle Arm Road, NSW

- Traffic management
- Intersections
- Pedestrian crossings

Temporary



Australian Open

- Events
- Constructions

Applications

Sheltered Areas



Water Street, Strathfield NSW

- Underpasses
- Picnic shelters
- Bus shelters

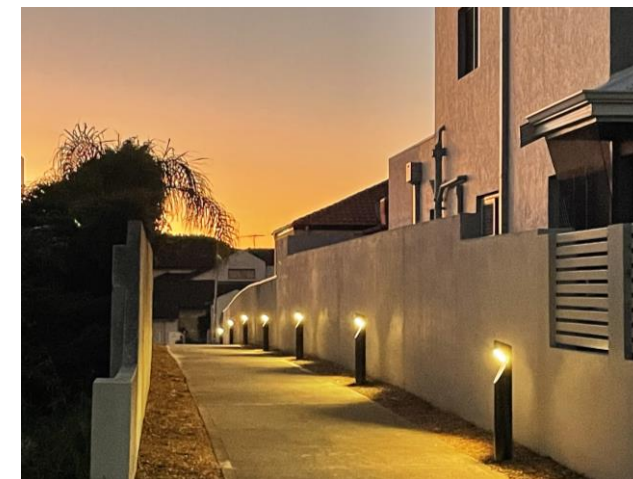
Landscape Features



Ashley Park Town Centre, Doreen

- Sculptures
- Signage
- Trees
- Fountains

Special Projects



Colebatch Hill, Melville

- Historical
- Custom designs
- Farms

What does the future look like?



FREEDOM

SMART URBAN LIGHTING

Designed for communities of the future



SMART
CITY READY

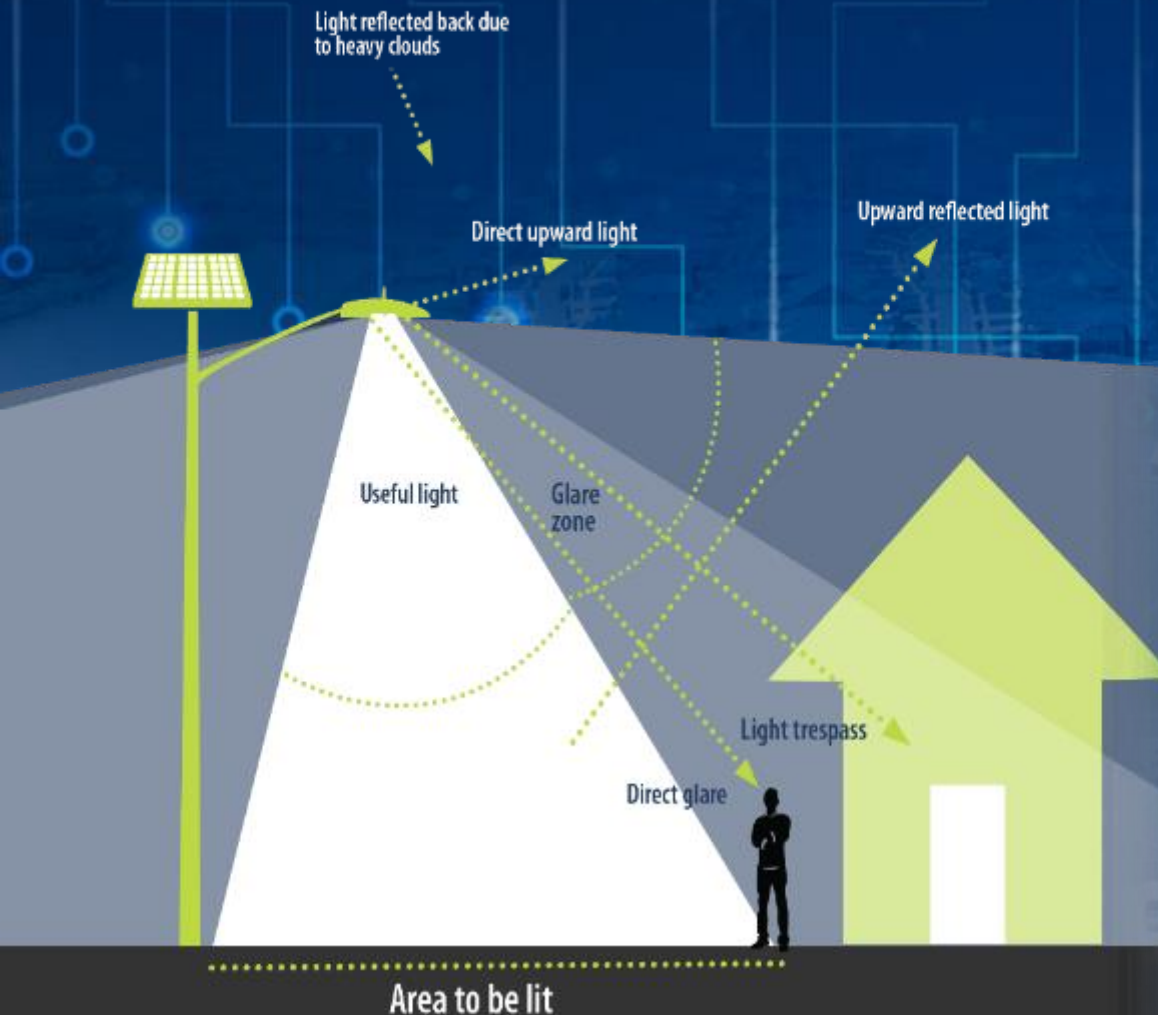
FREEDOM Solar Street Lighting



What is Dark Sky Compliance?

The promotion of environmentally responsible outdoor lighting to minimize the light pollution caused by traditional Electricity grid street lighting.

- LED fixture has ultra-sharp cut-off optics
- Significantly reduce lighting glare both to the rear and front sides
- Eliminates the effects of sky-glow at night



Bringing the light of the day into the night for safer, more active communities



31%
Increase of
walkers since
COVID-19



50%

women don't feel
safe outdoors at
night

Gender rethink for our parks

Safety top concern

JOHN MASANAUSKAS

SOME inner city parks and gardens will be redesigned to take into account the "gender spectrum" amid concern over attacks on women.

necessarily correlate with observations of safety, and can, in fact, increase perceptions of feeling unsafe," it said.

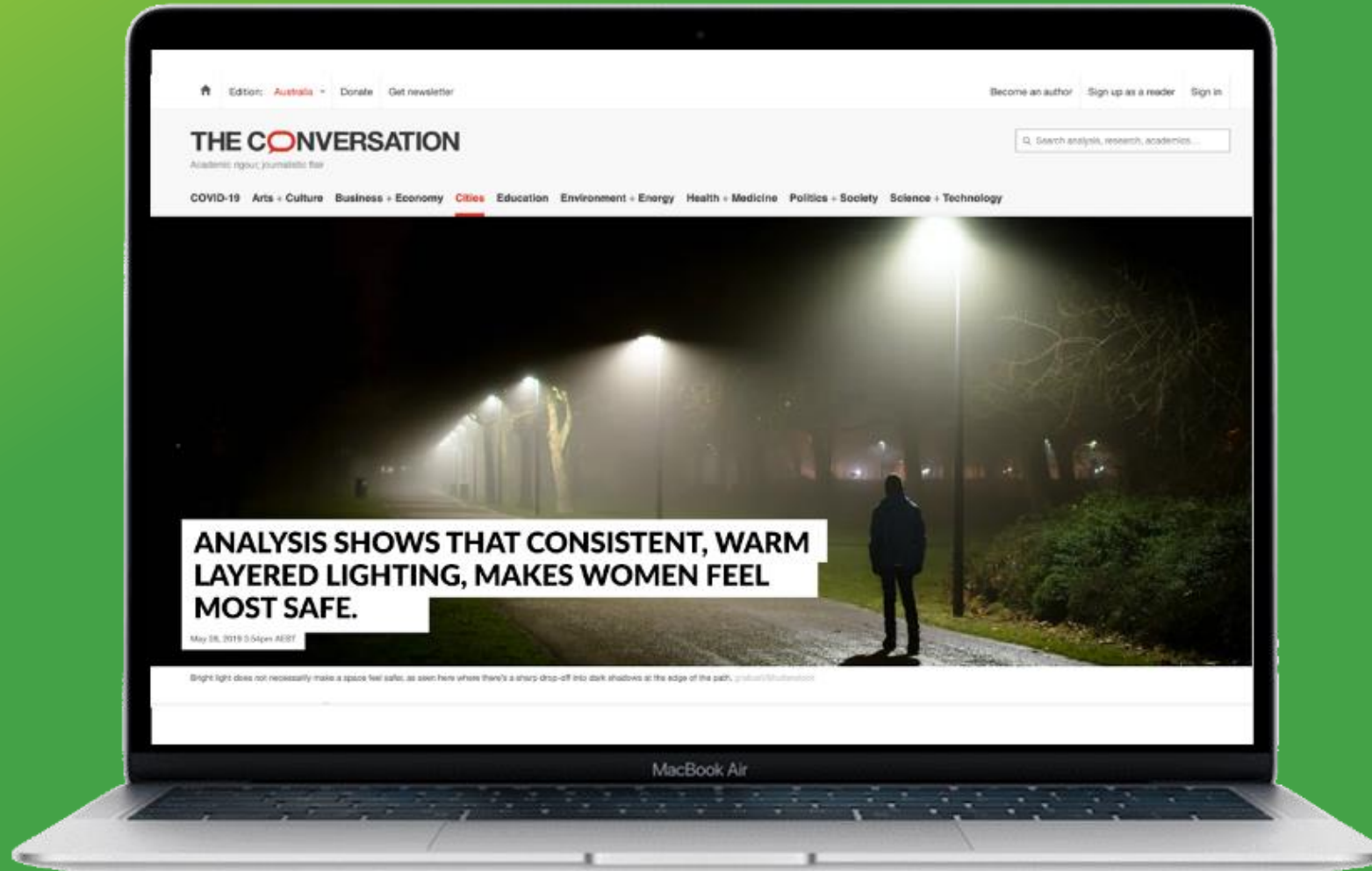
"Instead, provision of layered lighting — where there are multiple light sources and the

Article from the Herald Sun

*Liddy, M. (2018 June). Do you feel safe walking home at night? Men and women have very different answers. *The Age*. Retrieved February 2022, from <https://www.abc.net.au/news/2018-06-19/chart-of-the-day-do-you-feel-safe-walking-alone-at-night/9880408?nw=0&r=HtmlFragment>.

Bright Lights, Fewer Serious Crimes in New York City Projects <https://www.nber.org/digest/jul19/bright-lights-fewer-serious-crimes-new-york-city-projects>

Quality of light matters



Online article by The Conversation Media Group Ltd

LEADSUN

Need funding for open space public lighting?

Evidence-based research to support grant application

Download Free eBook



hub.leadsun.com.au/public-lighting-benefits



What is SMART public lighting

S

Sustainable

Environmentally friendly solutions that require no electricity from the grid



M

Modern

Aesthetically pleasing & innovative.



A

Adaptable

Can be installed where power is not available



R

Robust

Dependable performance.
Immune to blackouts & brownouts



T

Technology

Advanced innovation that intelligently reacts to its surrounding environment



DEMAND FOR ENERGY

SMART SOLAR LIGHTING Products



SPLIT MODEL

AE3 & AE6



AE6 Split Model AE6150T, AE6200T, AE6300U



Solar Engine Module	AE6150T	AE6200T	AE6300U
Solar module power output (W)	150	200	300
Product dimension (in.)	44(L) × 29(W) × 6(D)	62(L) × 29(W) × 6(D)	59.5(L) × 42.6(W) × 6(D)
Lithium battery capacity (Wh)	2x410 (820)		2x615 (1230)
Battery voltage & cycle life	12.8Vdc/ >4000 cycles		
Luminaire	RS40	RS50	RS80
Light output (W)	40	50	80
LED typical luminous flux (lm)	7200	8750	14400
LED colour temperature (K)	3000		
LED distribution type	T2 T2T3 T3		

AE3 Split Model AE3S60Q, AE3S90R

Solar Engine Module	AE3S60Q	AE3S90R
Solar module power output (W)	60	90
Product dimension (in.)	42.5(L) × 17.3(W) × 4(D)	56(L) × 17.3(W) × 4(D)
Lithium battery capacity (Wh)	2x 256 (512Wh)	2 x 308 (616Wh)
Battery voltage & cycle life	12.8Vdc/ >4000 cycles	
Luminaire	RS20	RS30
Light output (W)	20	30
LED typical luminous flux (lm)	1800	4860
LED colour temperature (K)	3000	
LED distribution type	T2 T2T3 T3	



ALL-IN-ONE MODEL

AE3 & AE5



AE3 All-In-One AE3S60N20, AE3S90R30

Solar Engine Module	AE3S60N20	AE3S90R30
Solar module power output (W)	60	90
Product dimension (in.)	42.5(L) × 17.3(W) × 4(D)	56(L) × 17.3(W) × 4(D)
Lithium battery capacity (Wh)	2x154 (308Wh)	2 x 308 (616Wh)
Battery voltage & cycle life	12.8Vdc/ >4000 cycles	
Light output (W)	20	30
LED typical luminous flux (lm)	1800	4860
LED colour temperature (K)	3000	
LED distribution type	T2 T2T3 T3	



AE5 All-In-One AE5S150T40



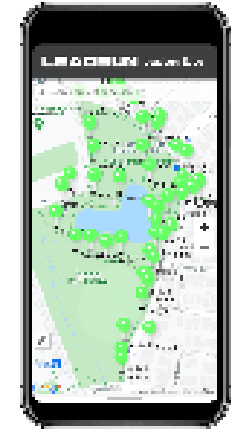
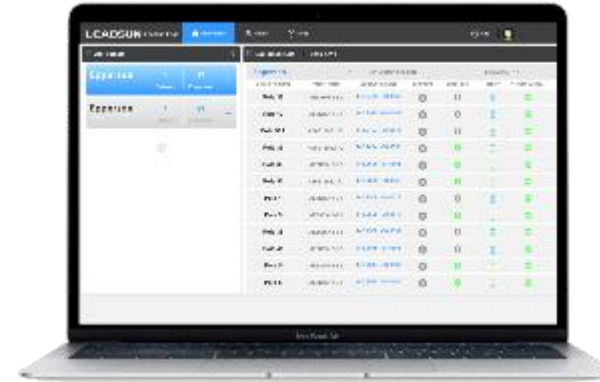
Solar Engine Module	AE5S150T40
Solar module power output (W)	150
Product dimension (in.)	44(L) × 29(W) × 6(D)
Lithium battery capacity (Wh)	2 x 410 (820Wh)
Battery voltage & cycle life	12.8VDC/ >4000 cycles
Light output (W)	40
LED typical luminous flux (lm)	7200
LED colour temperature (K)	5000
LED distribution type	T3

SMART Technology Adaptive Lighting



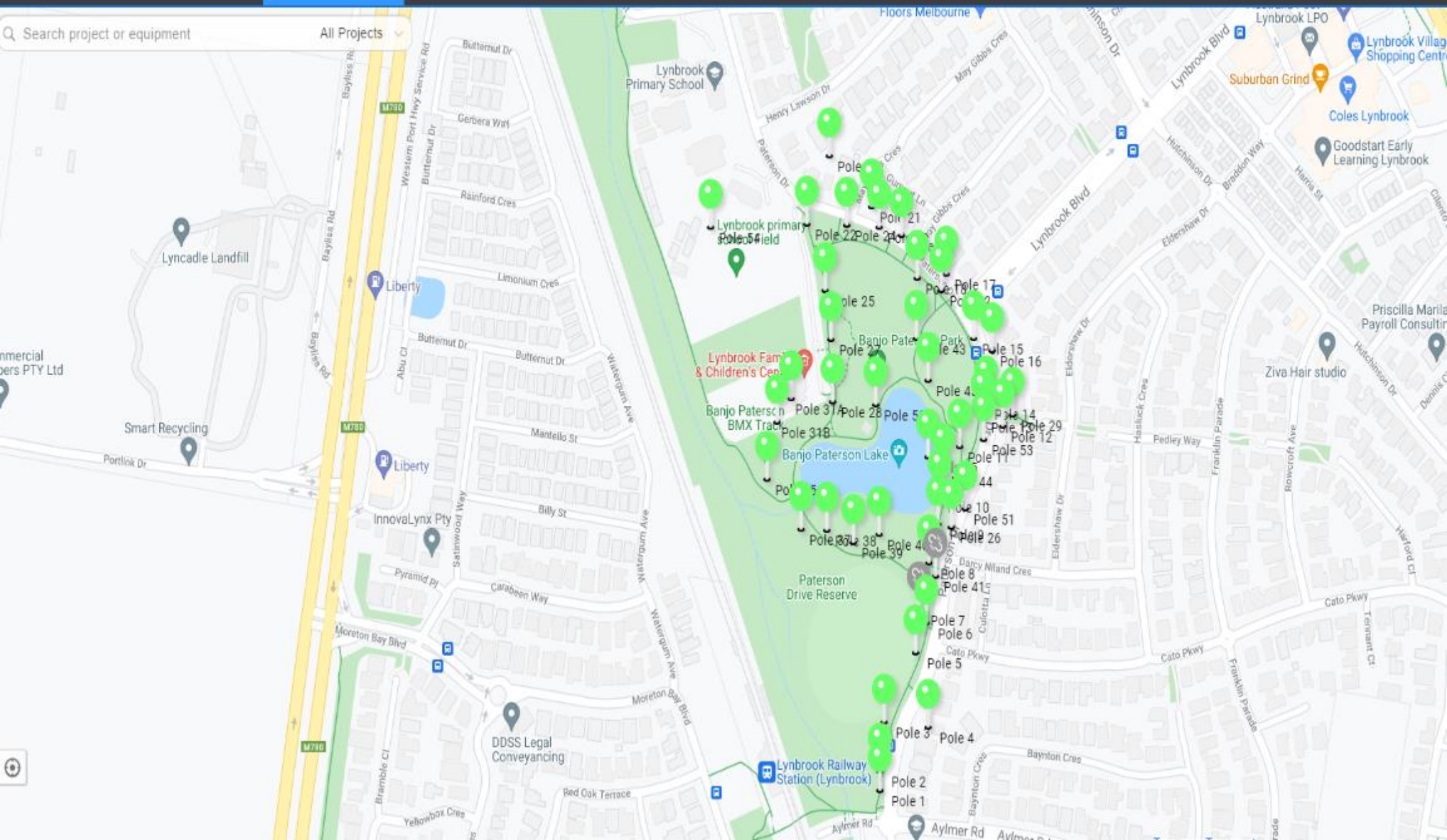
EDGE Wireless Monitoring & Control

- Lights logged into EDGE - GPS location
- Model No. & Serial No.
- Battery & Panel specification
- Remotely configure operation of each light
 - ✓ Timings
 - ✓ Lighting levels
- Real-time - battery & solar performance
- Fault monitoring



Search project or equipment

All Projects



 All Projects Equipment List | Banjo GW1

Banjo GW1

1
Gateway17
Equipment

Banjo GW2

1
Gateway29
Equipment

Banjo GW1 Pole 37



GT15L94U1909220C

Equipment: 17

Equipment Name	Product Model	Longitude/Latitude	Luminaire	Solar Panel	Battery	Network Connection
Pole 37	AE3S80P2-B2	145.2499 -38.0557				
Pole 12	AE3S55N2-B2	145.2525 -38.0549				
Pole 31A	AE6S130S2-F2	145.2497 -38.0546				
Pole 35	AE6S130S2-F2	145.2494 -38.0553				
Pole 39	AE3S55N2-B2	145.2505 -38.0558				
Pole 51	AE6S130S2-F2	145.2520 -38.0555				
Pole 1	AE3S55N2-B2	145.2509 -38.0579				
Pole 3	AE3S55N2-B2	145.2509 -38.0573				
Pole 38	AE3S55N2-B2	145.2502 -38.0557				
Pole 41	AE3S55N2-B2	145.2516 -38.0561				
Pole 5	AE3S55N2-B2	145.2514 -38.0567				
Pole 6	AE3S55N2-B2	145.2515 -38.0565				
Pole 40	AE3S55N2-B2	145.2509 -38.0558				
Pole 4	AE3S55N2-B2	145.2515 -38.0574				
Pole 7	AF3S55N2-R2	145.2514 -38.0564				

 All Projects Equipment List | Banjo GW1

Banjo GW1

1

Gateway

17

Equipment



Banjo GW2

1

Gateway

29

Equipment



Banjo GW1 Pole 37



GT15L94U1909220C

Equipment: 17

Equipment Name	Product Model	Longitude/Latitude	Luminaire	Solar Panel	Battery	Network Connection
Pole 37	AE3S80P2-B2	145.2499 -38.0557	0/ w	6.9/80 w	450.8/460 Wh	
Pole 12	AE3S55N2-B2	145.2525 -38.0549	0/ w	0.0/55 w	308/308 Wh	
Pole 31A	AE6S130S2-F2	145.2497 -38.0546	0/ w	0.0/130 w	768/768 Wh	
Pole 35	AE6S130S2-F2	145.2494 -38.0553	0/ w	8.7/130 w	46.08/768 Wh	
Pole 39	AE3S55N2-B2	145.2505 -38.0558	0/ w	0.3/55 w	308/308 Wh	
Pole 51	AE6S130S2-F2	145.2520 -38.0555	0/ w	6.5/130 w	768/768 Wh	
Pole 1	AE3S55N2-B2	145.2509 -38.0579	0/ w	0.0/55 w	308/308 Wh	
Pole 3	AE3S55N2-B2	145.2509 -38.0573	0/ w	0.0/55 w	308/308 Wh	
Pole 38	AE3S55N2-B2	145.2502 -38.0557	0/ w	0.0/55 w	308/308 Wh	
Pole 41	AE3S55N2-B2	145.2516 -38.0561	0/ w	0.3/55 w	308/308 Wh	
Pole 5	AE3S55N2-B2	145.2514 -38.0567	0/ w	0.0/55 w	308/308 Wh	
Pole 6	AE3S55N2-B2	145.2515 -38.0565	0/ w	0.7/55 w	308/308 Wh	
Pole 40	AE3S55N2-B2	145.2509 -38.0558	0/ w	0.0/55 w	308/308 Wh	
Pole 4	AE3S55N2-B2	145.2515 -38.0574	0/ w	0.0/55 w	308/308 Wh	

Default Lighting Plan

Motion Detection >

Timer Motion Detection >

Customized Lighting Plan

Add

General >

Default Lighting Plan

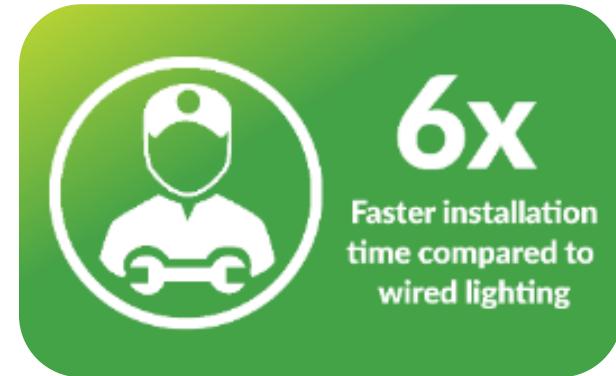
Name: * Timer Motion Detection

Apply

The last working day is December 31st.

From	To	Working Mode	No.	Start	End	Brightness	PIR
Jan 1	Dec 31 	Standard	1	Dark	4H0M Later	100%	None
			2	4H0M Later	Dawn	20%	0S 100% 30S

Installation Quick, Easy and Non-destructive



Cost Comparison

Is solar more expensive?

No! Solar lighting is not more expensive

- Hardware, installation & commissioning is competitive
- Total lifetime cost comes out ahead

Why?

- No expensive trenching and cabling
- No ongoing power costs
- Essentially Maintenance free (only periodic cleaning)



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ACOR Rudds Consultants Pty Ltd



Lead Source	Not a Lead	Not a Prospect	Prospect	Deal
Complimentary	734			40

Reliability Are solar lights reliable?

YES! Solar lights are reliable

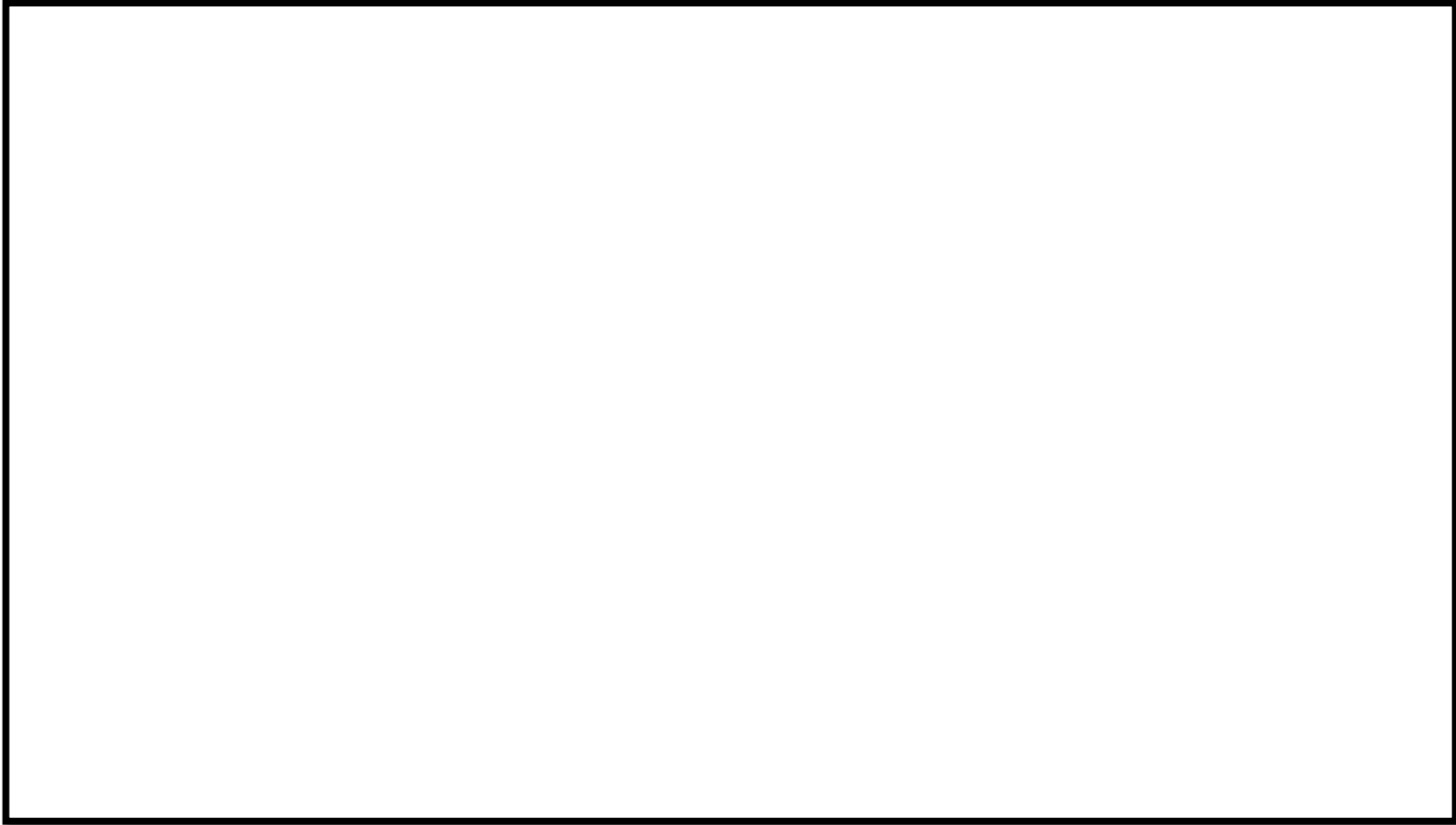
- Immune to blackouts and brownouts
- ... more reliable than traditional, grid-connected lights

PLUS

- Solar lighting are power autonomous
- If there were a failure, only a single unit would go dark



Bass Coast Rail Trail Pathway Lighting



Reliability What about cloudy days?



- Solar panels still charge on a cloudy days
- Lower due to clouds diffusing the sunlight
- Leadsun solar panel and battery are sized to ensure at least 4 days battery autonomy
- Reliable even in the depths of a Melbourne winter!

Unique Battery



- At the heart of our SMART Public Lighting systems
- Leadsun's Advanced Battery Management
- Unique patented technology

But what makes it different from the rest?

- In simple terms there are two-batteries that alternate their charge and discharge cycles to a very specific set of parameters



Always Dependable

- Rugged IK08 impact protected housing
- Minimal maintenance
- IP66 rated components
- No black-outs and brown-outs



Hardware & Installation
5 Year Guarantee



Battery Performance
10 Year Guarantee
Available for qualifying projects



Solar PV Panel
25 Year Service Life



LED
50K Hours Service Life



SMART City Ready

- EDGE Remote monitoring and control
- Endless possibilities to connect IOT devices:
 - ✓ Air quality sensors
 - ✓ Pedestrian and vehicle counters
 - ✓ Cameras
 - ✓ Duress-buttons
 - ✓ Wi-Fi access points, etc.
- When new technologies come online
- FREEDOM is ready to connect & scale accordingly.



Questions

Find us online



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