



SOLIS

Formed 1998

- Ken Petersen
- Bill Thompson
- Dr Nick Lomb
- Mike Chapman

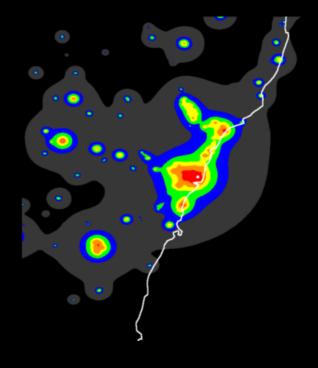
Sydney Observatory

Courtesy: L. Douglas Keeny Lights of Mankind



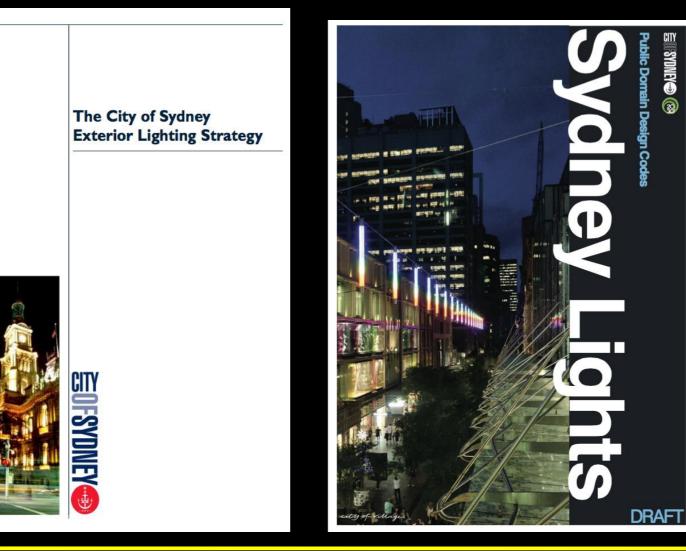


- Reduce skyglow over Sydney.
- Create awareness of obtrusive and nuisance lighting.
- Act as a source of knowledge on principles of good outdoor lighting.
- Collate and provide expert opinion on good outdoor lighting.
- Advise on how to pursue lighting issues at LGA.
- Assist Sydney Observatory on challenges to DA's



Cinzano 1998/2000

SOLIS



Artificial Light at Night – Sherbrooke Quebec Canada 2015

SYDNEY OUTDOOR LIGHTING IMPROVEMENT

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Development Control Plan (DCP)

Manly Council

Energy efficient lighting. Outdoor lighting should hooded or shielded.

Advertising Signs: Source suitably concealed;

Residential areas : Avoid nuisance glare and spillage of light. automatic time clocks Curfews between 10pm and 6am

Industrial Areas: Lighting shall not cause distraction or nuisance to neighbouring properties or traffic.

Can you find Manly on the map of Sydney?



Manly - 1936



Manly 2014





- Enhance Public Spaces, Public Life
- Promote Sustainability

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- Promote Active Transport
- Respect Distinctiveness and Place

Challenges of a modern city

SOLIS approaches submissions on Illumination projects to address the Principles of the code.





Sydney Lights Code

You cannot escape light in a city Living with the developers and architects The new code covers:

- Integrated approach
- Trees
- Qualified Lighting Designer
- Safety and Amenity
- Legibility & Wayfinding : Pedestrians & Cyclists
- Identity
- Quality of Light
- Colour Temperature and Colour Rendering
- Light Distribution
- Luminaries and Vandalism
- Adverse Lighting Impacts
- Sky Glow



Renzo Piano Building - Sydney



Sydney – Original General Post Office

Sydney Lights Code

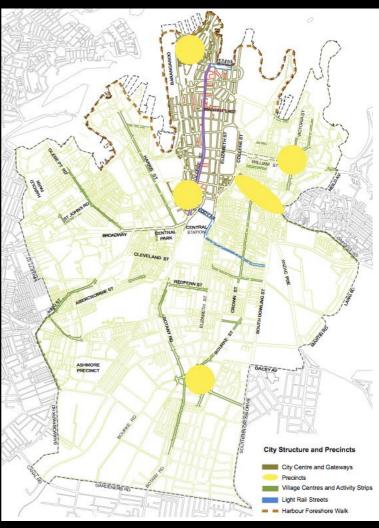


Direction and Certainity

Creative Lighting Master Plan

Precinct areas. Standardised palettes Specified lux levels Standard luminaire index

By dividing the city of Sydney into precincts and providing guidance in the terms of lux levels and luminaire selection from a standard palette the lighting designer can be confident that a lighting design will be acceptable to the Council.





Sydney Lights Code

11.2	Light quality specifications include a wide range of colour temperature (up to 4500K that is too harsh and will contribute to sky glow and create deep contrasting shadows. High intensity lighting (with high CCT) for public spaces will produce sky glow impacts. Specifications need to be more prescriptive.	1	Colour temperature does not contribution to skyglow impacts. It can be used as a design tool to provide contrast. However, this is done in consideration of overall public domain safety and amenity. Lighting specifications for public spaces are based on Australian Standards 1158 which considers pedestrian use and context. The Code provides a range and each lighting scheme is assessed to respond to unique site conditions.	None Required
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Outreach



On the ground that a Neon sign exhibited on the roof of a building at King's Cross constitutes a nuisance to people living in the neighbourhood, proceedings have been commenced in Equity for an injunction against a firm of motor car salesmen.

The sign, which is of considerable size, some of the words being in red and some in green, says: "The peak of perfection—Chrysler, Plymouth." It operates from 6 o'clock until 11 o'clock and later each night on the roof of Brentwood House, for York Motors Proprietary, Ltd., against whom an injunction is sought.

The plaintiffs in the proceedings are Mrs. Elsie Myerson, widow of the late Mr. Emanuel Myerson, and Mr. Fores Conway, Mr. W. R. Frazer, and Herbert Wiseman. Mrs. Myerson is the owner of Waratah House. Bayswater Road, and the other plaintiffs are tenants of flats at 40a Bayswater Road.

Yesterday the matter was mentioned before

SMH – 22 December 1938 Light pollution is not new

Outreach is necessary

Earth Hour Light measurements Poetry competition

Park Light – IES



Park Light 2011



Work with the industry

Illuminating Engineering Society Annual event called Park Light External illumination of facades Guerilla Lighting

Understand the industry.



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Earth Hour



Earth Hour started in Sydney

Before Earth Hour the amateur astronomy groups around Sydney created their own Dark Sky events.

Sydney Observatory organised a 'lights-off' event

'Festival of the Stars'

The comparison of the North Sydney Skyline from Sydney Observatory Is statement.





Don't Be Afraid of the Dark 2014



CITYOFSYDNEY

Charolette Gregory_Fromm (Junior 5-11 years)

Polluted stars from city lights, So we miss out on starry nights. The beauty of the stars so clear Cannot be seen from here. So let the night be not so bright, So we can enjoy the starry nights.



Joseph Bourizk (Intermediate 12 – 17 years)

50 stars I see in the sky The buildings light up and lights come on The night sky is grey 47 stars I see in the sky

40 stars I see in the sky Everyday getting worse Factories let off smoke like a bushfire 34 stars I see in the sky

29 stars I see in the sky Lights getting brighter Nature getting weaker 10 stars I see in the sky

5 stars I see in the sky The sky is suffocating from our pollution The beauty of the night fading Where have all th stars gone?

Don't Be Afraid of the Dark 2014

Margaret Bradstock (Open Section)

Night And the lights go out in the world Well some of them do. Empty offices still burn the midnight oil And the neighbours (climate sceptics) Are staging their own light-show.

> We douse the camping lantern, settle down To watch the gyroscope of stars Whirling unbroken like a desert sky, Alert to the night-noises, whirr of insects The fragrance of frangipani Lingering in a garden

Warning lamps on the Bridge blink off and on

Off and on, familiar as the Harbour's rhytms

importunate as a draft-card.

When the city switches itself on For some, that's it for another year. 3,000 hours or more might turn the tide

Don't Be Afraid of the Dark - A poetry competition in conjunction with City of Sydney Library And BINTEL to coincide with Earth Hour in 2014.



Coca-Cola Amatil



2.3 km due North from Sydney Observatory

SOLIS objected on the grounds of:

- Insufficient detail in DA .
- Unclear where white LEDs are to be used.
- Impact on neighbouring residential.
- Impact on Heritage classification of Day and Night sky over Sydney.
- Environmental factors.
- Light spillage into the Night Sky.
- Impact on Sydney Observatory
 - Tourism
- Photomontage not accurate.

Coca-Cola Amatil





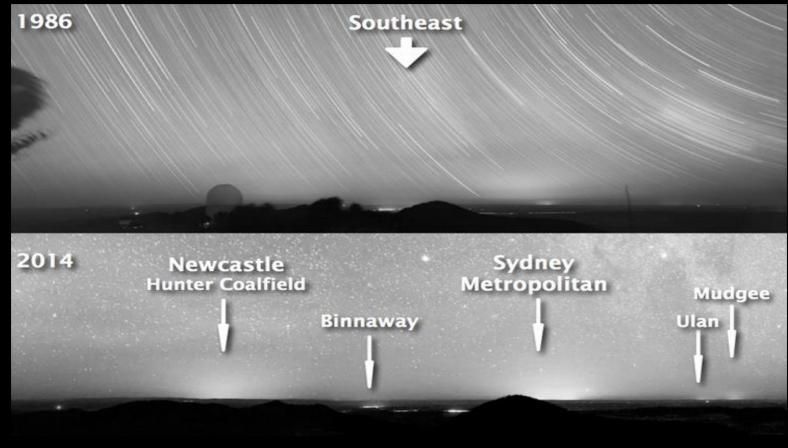








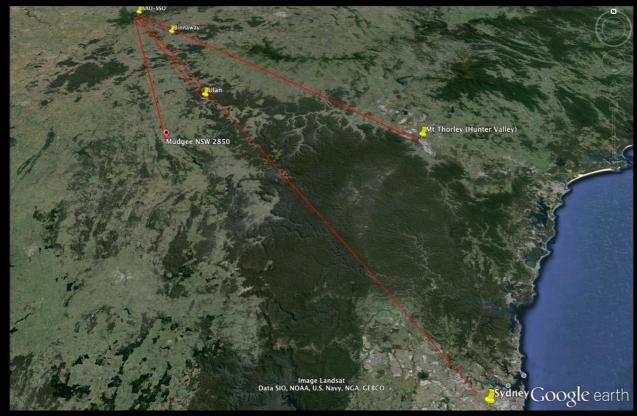
Siding Spring Observatory



Courtesy: David Malin







Australian Astronomical Observatories Distances (km) from

Binnaway	32
Ulan	124
Mudgee	154
Mt Thorley (Hunter Valley)	235
Sydney	345

Compare to night sky images and judge the increase of light emitted by Sydney and open cast coal mining operations over the 28 year period.



Australian Aboriginal Mythology



The Emu



MA

Australian Urban Mythology

