

AGENDA

ENVIRONMENT STRATEGIC REFERENCE GROUP

Notice is hereby given that a meeting of the Environment Strategic Reference Group will be held in the Coastal Environment Centre, Narrabeen on

THURSDAY 28 FEBRUARY 2019

Beginning at 6:00pm for the purpose of considering matters included in this agenda.

Committee Members

Cr Alex McTaggart (Chair)

Cr Natalie Warren

Cr Pat Daley

Cr Stuart Sprott

Sophie Scott

Roberta Conroy Bayview Church Point Residents Association

Alan Jones

Tom Hazell

David Tribe

Anthony Petrolo

Nigel Howard

Viktorija McDonnell Curl Curl Lagoon Committee

Marita Macrae Pittwater Natural Heritage Association

Jacqueline Marlow Friends of Narrabeen Lagoon Catchment

Billy Bragg

Scott Markich

Council Officer Contacts

Todd Dickinson Acting General Manager Environment & Infrastructure

Jacque Grove Acting Executive Manager Natural Environment & Climate Change

Ximena Von Oven Governance Officer

Quorum

A majority of members including the Chair or one of the elected Councillors.

Agenda for Environment

Strategic Reference Group Meeting

to be held on Thursday 28 February 2019

in the Coastal Environment Centre, Narrabeen

Commencing at 6:00pm

| | | |
|------------|--|----------|
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| 4.0 | UPDATE ON ACTIONS FROM LAST MEETING | |
| | Nil | |
| 5.0 | AGENDA ITEMS | 5 |
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| 6.0 | GENERAL BUSINESS | |
| | For future discussion – Electrical Vehicles Charging Strategy | |

NEXT MEETING Thursday 30 May 2019

1.0 APOLOGIES

All members are expected to attend the meetings or otherwise tender their apologies to the Chair and Governance at councilmeetings@northernbeaches.nsw.gov.au.

2.0 DECLARATION OF PECUNIARY AND CONFLICTS OF INTEREST

Members are advised of the following definitions of a "pecuniary" or "conflict" of interest for their assistance:

Section 442 of the Local Government Act, 1993 states that a "pecuniary" interest is as follows:

"(1) [Pecuniary interest] A Pecuniary interest is an interest that a person has in a matter because of a reasonable likelihood or expectation of appreciable financial gain or loss to the person or another person with whom the person is associated.

(2) [Remoteness] A person does not have a pecuniary interest in a matter if the interest is so remote or insignificant that it could not reasonably be regarded as likely to influence any decision the person might make in relation to the matter."

Members should reference the Local Government Act, 1993 for detailed provisions relating to pecuniary interests.

Council's Code of Conduct states that a "conflict of interest" exists when you could be influenced, or a reasonable person would perceive that you could be influenced by a personal interest when carrying out your public duty.

3.0 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

3.1 MINUTES OF ENVIRONMENT STRATEGIC REFERENCE GROUP MEETING HELD 13 DECEMBER 2018

RECOMMENDATION

That the Minutes of the Environment Strategic Reference Group meeting held 13 December 2018, copies of which were previously circulated to all Members, be confirmed as a true and correct record of the proceedings of that meeting.

5.0 AGENDA ITEMS

| | |
|-------------------|--|
| ITEM 5.1 | LIGHTING THE WAY - ACCELERATED STREET LIGHTING IMPROVEMENT PROGRAM |
| REPORTING OFFICER | SENIOR SUSTAINABILITY OFFICER |
| TRIM FILE REF | 2019/091057 |
| ATTACHMENTS | 1 ↓ Lighting the Way - Replacement of Ausgrid Residential Road Lighting with LEDs |

EXECUTIVE SUMMARY

PURPOSE

To present the “Lighting the Way” street light replacement project to the Environment Strategic Reference Group.

REPORT

Council is a member of the SSROC Street Lighting Improvement (SLI) Program and is working with Ausgrid to deliver a project to replace a large number of existing Ausgrid residential street lights with LED lights. The project will be implemented between now and 2021 and deliver significant outcomes including:

- Reduced greenhouse gas emissions;
- More effective lighting that is better distributed in the road reserve, is a high quality white light and will substantially improve compliance outcomes;
- Removal of mercury-containing lamps; and
- Cost savings due to a reduction in energy consumption, lower maintenance costs and lower capital cost.

For Northern Beaches Council this will result in the replacement of around 9,363 lights and will reduce the energy use, and subsequent emissions produced, for these lights by 80.5%. This is equivalent to a reduction of 3,000 t CO₂-e/yr and \$1,786,305 (in today’s dollars) over the next ten years.

Graham Mawer from the SSROC Street Lighting Improvement Program, will attend to present to the Environment SRG and discuss the project.

RECOMMENDATION OF SENIOR SUSTAINABILITY OFFICER

That the Environment Strategic Reference Group note the “Lighting the Way” project and the significant savings in energy, costs and emissions to be achieved.

Lighting the Way

Replacement of Ausgrid Residential Road Lighting with LEDs

Southern Sydney Regional Organisation of Councils (SSROC) Inc.





Introduction

Paul Gowans

- Three decades managing lighting for UK & AU councils
- Sits on key Standards Australia committees



December 2018

Graham Mawer

- Program Manager of SSROC SLI Program, consultant to 42 council 'Southern Lights Project' and other councils
- Adviser to IPWEA and Commonwealth



Lighting the Way - SSROC SLI Program



SSROC Street Lighting Improvement Program

- 29 councils encompassing 230,000+ street lights
- 90% of lights in Ausgrid region and 40% of NSW
- 90,000+ lights changed so far
- Big wins on pricing, info & service levels by working together
- SLI Program focus is on:
 1. Pricing reviews
 2. Securing better lighting technology & better lighting outcomes
 3. Improving service levels

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Lighting the Way - SSROC SLI Program



Ownership and responsibility for lighting

- Ausgrid owns most of the street lighting
- Councils (& RMS) have exclusive power and legal responsibility for providing lighting
- No contracts and no regulated service levels
- AER regulates prices (but not service levels)

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Lighting the Way - SSROC SLI Program



Why do we provide street lighting?

- Vehicle and pedestrian safety
- Security
- Amenity



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Lighting the Way - SSROC SLI Program



Drivers for 'Lighting the Way' project

- Cost savings
 - Energy (& GHG) savings
 - Maintenance savings
- Better and more reliable lighting
- Elimination of mercury

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Lighting the Way - SSROC SLI Program



Minamata Convention

- Global treaty to ban most mercury by 2021 including importation of mercury vapour lamps
- Australia signed in 2013 and considering ratification
- Came into force globally in December 2017
- Global manufacturers already ramping down production
- 96%+ of 'Lighting the Way' is MV in NBC



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Lighting the Way - SSROC SLI Program



What lights are to be upgraded

- Up to 102,000 luminaires on residential roads (~40% of Ausgrid street lighting)
- Across 33 councils (Sydney, Central Coast & Hunter)
- 15 legacy types of luminaires → LEDs
- All residential road luminaires older than 1 July 2009



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Lighting the Way - SSROC SLI Program



What luminaires would be installed

- Mostly 17W LED luminaires
- Two suppliers (subject to updating)
- Smart controls ready
- Meeting standards at least as well as what is being replaced



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Lighting the Way - SSROC SLI Program



Benefits

- Net cost reduction for council
 - Energy savings of an average 80%
 - Lower maintenance costs and much more reliable
 - Lower cost capital
- GHG reduction of an average 80%
- Safety and security improved from high quality white light and better distribution
- 90%+ reduction in upward waste light and mercury free

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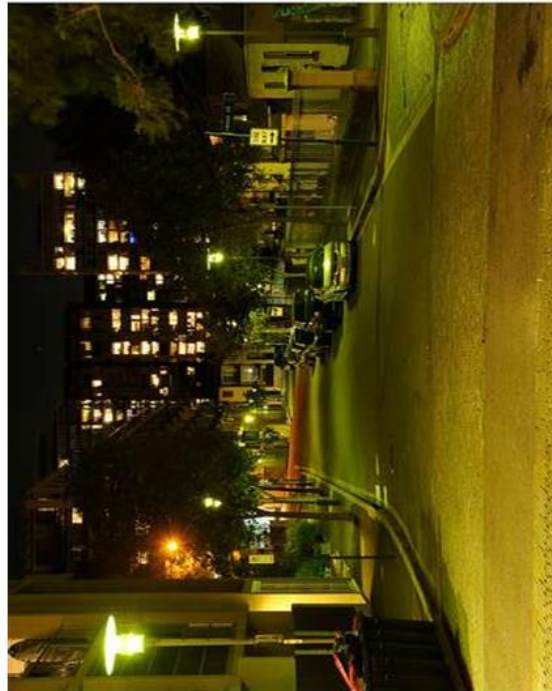
Lighting the Way - SSROC SLI Program



Whiter, brighter & safer



Lighting the Way - SSROC SLI Program

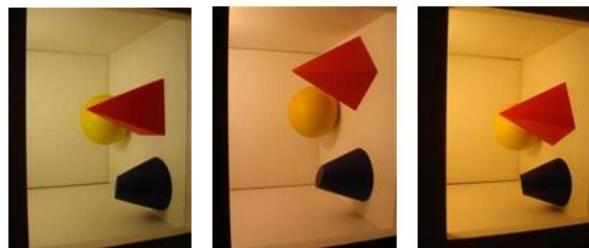


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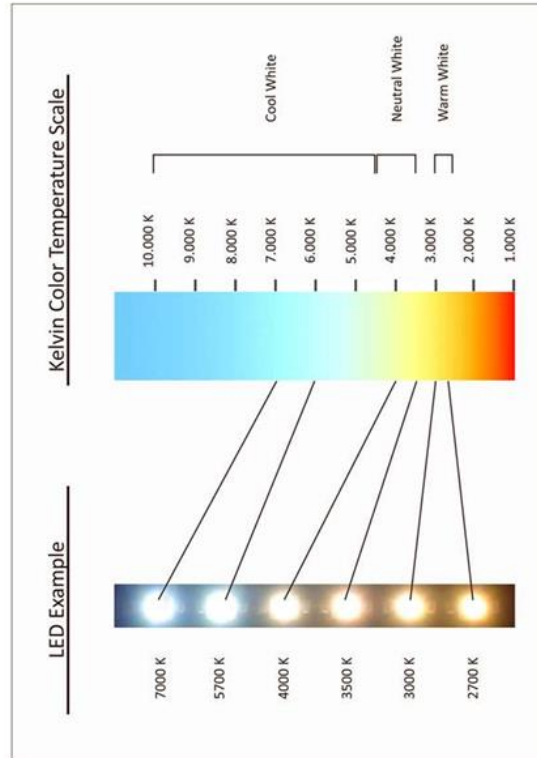


Colour Temperature

Determines whether colours appear warm or cool



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Lighting the Way - SSROC SLI Program



Colour Rendition



HPS Ra = 24/100

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LED Ra = 85/100

Lighting the Way - SSROC SLI Program



Who will install & when

- A combination of Ausgrid's own crews & sub-contractors
- Over ~3 years with bulk completed by 2021



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Lighting the Way - SSROC SLI Program



Two funding options

- Ausgrid funding over 10 years for lights
 - Councils pay Ausgrid for residuals on old lights (or Ausgrid can fund)
 - Councils pay on-going capital charges over 10 years for luminaires (35 years for brackets)
- Council funding (from reserves or borrowings)
 - Capital costs not subject to AER pricing decisions
 - CEFC financing one of several options available





Summary of business case

- Building on models provided by Ausgrid on 29 June, SSROC provided enhanced model for each council
- Modelling includes consideration of:
 - Capital costs of luminaires, some brackets and installation labour
 - Maintenance costs (based on current AER-approved tariffs)
 - Energy (retail, network, losses, environmental and market charges)
 - Residual costs of luminaires and some associated brackets
 - Potential ESC value
- Two funding options: Ausgrid or council/3rd party-funded

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Lighting the Way - SSROC SLI Program



Summary of business case – Northern Beaches

| Lighting Types | # (%) |
|---------------------|---------------|
| 80W MV | 8,397 (96.4%) |
| 125W MV | 235 (2.5%) |
| 42W CFL | 84 (0.9%) |
| Misc | 25 (0.3%) |
| TOTAL LIGHTS | 9,363 |

Total Lights in
Northern Beaches
Council = 16,383

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Lighting the Way - SSROC SLU Program



Summary of business case – Northern Beaches

- ~9,363 lights to be replaced
- 80.5% energy & GHG savings
- Total net capital cost \$3.74m
 - Includes capital cost of deployment, residual costs and ESS value
 - Across all three former LGAs
- Simple payback approximately 5 years
- NPV savings over 10 years \$1.79m

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Lighting the Way - SSROC SLI Program



Main roads

- 'Lighting the Way' project focused on residential roads
- Main road LED trials with smart controls underway
- Prospective second stage project
- May be concurrent

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Lighting the Way - SSROC SLI Program

| | |
|--------------------------|---|
| ITEM 5.2 | IMPLEMENTATION OF "MOVE" NORTHERN BEACHES TRANSPORT STRATEGY - PUBLIC EXHIBITION OF BIKE PLAN AND WALKING PLAN |
| REPORTING OFFICER | MANAGER, TRANSPORT NETWORK |
| TRIM FILE REF | 2019/091035 |
| ATTACHMENTS | NIL |

EXECUTIVE SUMMARY

PURPOSE

To provide the Environment Strategic Reference Group with a presentation on the implementation of the Northern Beaches Environment Strategy and two documents currently on public exhibition – The Bike Plan and The Walking Plan.

REPORT

Council adopted *Move – Northern Beaches Transport Strategy* in November 2018. This strategy sets ambitious targets for the Northern Beaches by 2038, as noted below:

- A quarter of all trips by public transport
- Double the active travel trips; especially for households, commuters and school students
- Thirty percent reduction in trips by cars
- Thirty percent reduction in carbon emissions from transport
- Towards zero deaths on our roads

Implementation of this strategy will be through the development of a series of plans. Currently, two plans are on exhibition the Bike Plan and Walking Plan.

The Northern Beaches Bike Plan is being prepared to guide the development of our cycling network, new infrastructure and priority routes for the next five years.

The Northern Beaches Walking Plan will inform the delivery of our walking priorities and new footpaths across the Northern Beaches.

RECOMMENDATION OF MANAGER, TRANSPORT NETWORK

That the Environment Strategic Reference Group notes the presentation and provide comments on the Northern Beaches Bike Plan and the Northern Beaches Walking Plan via Councils website by the 3 March 2019.

| | |
|--------------------------|--|
| ITEM 5.3 | DISCUSSION OF THE ENVIRONMENT STRATEGIC REFERENCE GROUP SUBMISSIONS RECEIVED ON THE DRAFT NORTHERN BEACHES ENVIRONMENT STRATEGY |
| REPORTING OFFICER | SENIOR SUSTAINABILITY OFFICER |
| TRIM FILE REF | 2019/091088 |
| ATTACHMENTS | NIL |

EXECUTIVE SUMMARY

PURPOSE

To discuss the submissions received from the Environment Strategic Reference Group on the draft Northern Beaches Environment Strategy.

REPORT

The draft of the Northern Beaches Environment Strategy was provided to the Environment SRG members on 20 December 2018. We received 10 submissions in January 2019 from the members, which included a range of valuable comments and suggestions.

We have been addressing the comments and updating the draft strategy. Some of the common points in the submissions, which we are in the process of addressing, include:

- Increasing the strength in Council's role as an influencer and advocate
- Including topics such as food waste and plastic pollution more explicitly
- Referencing climate change mitigation more clearly throughout the document as it is important we focus on this, as well as climate change adaptation measures
- Discussing the key carbon emission reduction behaviours people can adopt.

One other common topic was:

- Increasing the level of ambition in some aspirations such as bringing forward our carbon emissions reduction date (for example - net zero emissions by 2030 rather than 2050).

We will hold a discussion at the Environment SRG meeting that will further consider the level of ambition in the current proposed aspirations in the draft Northern Beaches Environment Strategy.

RECOMMENDATION OF SENIOR SUSTAINABILITY OFFICER

That the Environment SRG committee participate in a discussion regarding the aspirations in the draft Northern Beaches Environment Strategy.

| | |
|--------------------------|---|
| ITEM 5.4 | DISCUSSION ON THE DEVELOPMENT OF A DRAFT NORTHERN BEACHES COUNCIL BUSHLAND AND BIODIVERSITY POLICY |
| REPORTING OFFICER | MANAGER, BUSHLAND AND BIODIVERSITY |
| TRIM FILE REF | 2019/093698 |
| ATTACHMENTS | NIL |

EXECUTIVE SUMMARY

PURPOSE

To discuss the development of the draft Bushland and Biodiversity Policy with the Environment Strategic Reference Group.

REPORT

Bushland and biodiversity are a critical part of the Northern Beaches character and identity. Our community is passionate about the environment and there is a strong desire to protect and enhance natural areas. There is a need for an overarching policy document to provide the framework for Council to improve protection of bushland and biodiversity on the Northern Beaches. It is envisaged that this document will include a series of management principles which underpin Council's approach to the conservation of bushland and biodiversity.

The draft Bushland and Biodiversity Policy will be based on the principles of ecologically sustainable development and provide a strategic framework for the management of bushland and biodiversity.

It is envisaged that application of the policy would be most relevant during:

- Strategic land use planning
- The assessment of developments and activities and
- The management of bushland areas on public and private land.

RECOMMENDATION OF MANAGER – BUSHLAND AND BIODIVERSITY

That the Environment Strategic Reference Group note the presentation and provide input into the Development of the Draft Northern Beaches Council Bushland and Biodiversity Policy.
