

Public Lighting Policy – Clayton Bay

Dark Sky Zone

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Responsible Division	Infrastructure - Assets
Alexandrina Council Related Documents	Information Management Policy WHS Policies and Procedures Risk Management Policy Recreation, Open-Space & Sport Strategy (ROSS) Infrastructure Guidelines Environmental Action Plan 2030 Public Lighting Policy - General Street Lighting Change Form Public Lighting Operational Procedure
Other Related Documents	International Dark Sky Community Program Guidelines (June 2018) SA Power Networks TS101 Public Lighting – Design and Installation SA Power Networks NICC402 SA Power Networks Tariff Manual No. 21 SA Power Networks Public Lighting Service Framework DarkSky Community – Guidelines Australian Standards AS1158 Australian Standards AS4282 Australian Standards AS60598.2.3:2015 Institute of Public Works Engineering Australasia (IPWEA) - Infrastructure Guidelines SA AGR06A and B: Austroads Guide to Road Design AP-G88-17: Cycling Aspects of Austroads Guides Smart Lighting Smart Controls Model Public Lighting Inventory & Audit Guidelines Wildlife Sensitive Lighting Tools - Final Report National Light Pollution Guidelines for Wildlife (DCCEEW)
Applicable Legislation	Local Government Act 1999 (SA) Planning, Development and Infrastructure Act 2016 (SA) Road Traffic Act 1961 (SA) Environment Protection and Biodiversity Conservation Act 1999 (Cth) Local Nuisance and Litter Control Act 2016

1. Purpose

- 1.1 Alexandrina Council (Council) recognises the importance of responsible, sustainable and fit-for-purpose public lighting that supports community safety, accessibility and amenity while minimising unnecessary light spill, glare, sky glow and impacts on the environment, wildlife and community amenity in the town of Clayton Bay.
- 1.2 Council confirms its commitment to public lighting that complies with applicable SA Power Networks requirements, relevant *Australian Standards*, Council infrastructure requirements and other applicable design specifications, and that supports DarkSky International outcomes within the *Clayton Bay Dark Sky Zone*.
- 1.3 Council, under this Lighting Policy for Clayton Bay Dark Sky Zone aims to:
 - Ensure Council, SA Power Networks, developers, other government bodies and the community understand how public lighting decisions can support general public lighting outcomes, responsible asset management and DarkSky International outcomes.
 - Ensure new and renewed public lighting is designed and delivered in accordance with applicable SA Power Networks requirements, Australian Standards, Council infrastructure requirements and other applicable design specifications that support DarkSky outcomes.
 - Support responsible outdoor lighting practices, including the *Five Principles for Responsible Outdoor Lighting* co-published by DarkSky International and the Illuminating Engineering Society:
 - Useful - Use light only if needed;
 - Targeted - Direct light only where needed;
 - Low Level - Use light no brighter than needed;
 - Controlled - Use controls so light is only on when needed; *and*
 - Warm-coloured - Use warmer colour light where possible.

2. Policy Statement

- 2.1 Alexandrina Council is committed to responsible, cost-effective, sustainable and fit-for-purpose public lighting to achieve DarkSky International - Community outcomes.
- 2.2 Council will apply public lighting in a way that supports safety, accessibility and appropriate levels of service for the community.
- 2.3 Council will utilise SA Power Networks public lighting requirements, including relevant connection, design, installation, tariff and service framework requirements.
- 2.4 Council will require public lighting to be designed and delivered in accordance with relevant *Australian Standards*, Council infrastructure requirements, other applicable design specifications consistent with the desired levels of service for the community.
- 2.5 This Policy over-rides the Public Lighting Policy – General.

- 2.6 Council will support responsible outdoor lighting practices that minimise unnecessary light spill, glare, sky glow, ALAN and impacts on the environment, wildlife and community amenity.
- 2.7 Council will support accredited DarkSky International - Community outcomes, including alignment with DarkSky International principles and requirements relevant to the *Clayton Bay Dark Sky Zone*.

3. Scope

- 3.1 This Policy applies to Alexandrina Council public lighting associated with land divisions, development applications, capital projects and other public realm works; public lighting design, upgrade, renewal, removal and change requests; and public lighting considerations within the *Clayton Bay Dark Sky Zone*.



Figure 1: Clayton Bay Dark Sky Zone – area within red boundary.

- 3.2 This Policy does not regulate private lighting on commercial or residential land except where Council has a statutory role or a relevant approval condition applies.

4. Definitions and abbreviations

- 4.1 For the purpose of this Policy, certain words, phrases and terms used herein shall have the meanings assigned to them by this section:

Clayton Bay Dark Sky Zone - The area of Clayton Bay to which DarkSky International lighting considerations and operational controls apply, as identified by Council and reviewed through the Policy review process.

Alexandrina Council - Infrastructure Guidelines: Standards and requirements for design, construction and development of infrastructure assets at Alexandrina Council.

Artificial Light At Night (ALAN) - Human generated electric light at night.

Correlated Colour Temperature (CCT) - Colour tone of lighting measured in Kelvin (K).

DarkSky International -The global organisation, formerly the International Dark-Sky Association, responsible for DarkSky International accreditations and guidance.

DCCEEW - *Department of Climate Change, Energy, the Environment and Water of Australia.*

Fully Shielded - A luminaire designed to emit no light above the horizontal plane.

International Dark Sky Community - A community accredited under the International Dark Sky Places program for exceptional dedication to preserving night skies through quality lighting policies, dark sky education and community support.

Light Pollution - Unwanted or unnecessary ALAN, including light trespass, glare and sky glow.

Low-Light Principles - an approach to public lighting that uses the minimum effective light needed to safely illuminate public spaces while reducing unnecessary brightness and environmental impacts.

Luminaire - A complete electrical lighting fixture containing an artificial light source.

SA Power Networks (SAPN) -The electricity distribution network operator responsible for relevant public lighting services, maintenance, design, ownership and approval processes under applicable arrangements.

Sky Glow - Brightening of the night sky from reflected and scattered light.

5. Policy Implementation

5.1 Council will implement this Policy through the planning, design, installation, operation, maintenance and renewal of public lighting within the Clayton Bay Dark Sky Zone in a manner that supports public safety while protecting night sky quality, environmental values and DarkSky objectives.

5.2 Implementation of this Policy will be achieved through:

- Applying the lighting principles and requirements contained within this Policy to all new public lighting installations, upgrades and renewal projects within the Clayton Bay Dark Sky Zone;
- Incorporating DarkSky International principles, wildlife-sensitive lighting practices and relevant Australian Standards into lighting design and assessment processes;
- Assessing proposed lighting infrastructure to minimise light pollution, glare, light trespass and sky glow wherever reasonably practicable;

- Supporting the use of appropriate lighting technologies, controls and operating regimes that achieve required safety outcomes while reducing unnecessary artificial light;
- Working collaboratively with the Clayton Bay Dark Skies Action Group, Clayton Bay Community Association Inc., residents and other stakeholders to promote Dark Sky and/or Low-Light objectives and responsible lighting practices;
- Providing advocacy to encourage adoption of Dark Sky principles for private lighting within the Zone; and
- Periodically reviewing lighting performance, Dark Sky Zone boundaries and accreditation requirements to ensure the ongoing effectiveness of the Policy.

5.3 Clayton Bay Dark Sky Zone

- 5.3.1 Within the Clayton Bay Dark Sky Zone, public lighting must support preservation of night-sky values, protection of sensitive environments and *DarkSky International* objectives.
- 5.3.2 Public lighting within the *Clayton Bay Dark Sky Zone* must comply with Council's *Infrastructure Guidelines*, including *Section R.9 Street Lighting* and *Appendix 3 Clayton Bay Lighting Requirements*, and applicable SAPN smart lighting and tariff requirements.
- 5.3.3 Smart lighting, dimming and trimming schedules are managed by Council in partnership with SAPN. Changes to schedules, timings, brightness or lumen output require formal review through the *Lighting Change Form* process and approval by the Manager Assets.

5.4 Existing Public Lighting Infrastructure

- 5.4.1 Council recognises that existing public lighting assets may require review, renewal, modification or operational controls to meet safety, access, environmental, technical, financial and DarkSky International considerations.
- 5.4.2 Any proposed modification, relocation, removal, dimming or upgrade of existing Council-managed public lighting assets requires completion of a *Street Lighting Change Form* and documented risk assessment unless the works are being undertaken as part of SAPN's public lighting maintenance, renewal or upgrade programs.

5.5 Public Lighting in Land Developments

- 5.5.1 Council will require public lighting associated with land developments, public works and infrastructure projects within the Clayton Bay Dark Sky Zone to comply with applicable SA Power Networks requirements, relevant *Australian Standards*, Council infrastructure guideline requirements and other applicable design specifications.
- 5.5.2 Detailed design, submission, acceptance and handover requirements are addressed through the Council's *Operational - Public Lighting Procedure* and Council's *Infrastructure Guidelines*.

5.6 Private Lighting

- 5.6.1 Council will encourage responsible private outdoor lighting through advocacy and voluntary low-light or dark sky practices, particularly within the *Clayton Bay Dark Sky Zone*.
- 5.6.2 This Policy does not regulate private lighting on commercial or residential land except where Council has a statutory role or a relevant approval condition applies.

6. Exemptions

- 6.1 Exemptions from this Policy may be considered where necessary for public safety, emergency response, statutory requirements, temporary works, essential operations or other justified circumstances.
- 6.2 The following requirements must be satisfied before exemptions can be considered.
 - Documented justification;
 - Relevant risk assessment;
 - Appropriate mitigation measures; and
 - A defined review date or expiry date where the exemption is temporary.

7. Roles and Responsibilities

Council Elected Members are responsible for reviewing and endorsing this Policy.

General Manager Infrastructure is responsible for Policy implementation and adequate resourcing.

Manager Assets is responsible for managing Council lighting assets, overseeing the enforcing and monitoring of technical standards, assessing proposed lighting changes and exemptions, and overseeing *Clayton Bay Dark Sky Zone* operational controls.

Manager Field Services coordinates inspections, maintenance activities and operational responses for Council-maintained lighting assets.

Development Assessment Team applies Council infrastructure requirements and this Policy during development assessments.

Team Leader Environmental Strategy assesses legislative requirements of lighting and contributes to effective lighting plans.

SA Power Networks owns, operates and maintains public lighting vested under SAPN arrangements in accordance with applicable technical standards and ownership processes.

The **Clayton Bay Dark Skies Sub-Committee** of the **Clayton Bay Community Association Inc.** manages DarkSky International submission and accreditation activities, dark sky quality reporting, community education and private property advocacy.

8. Community Consultation

- 8.1 Council may consult with the broader community and relevant stakeholders on significant public lighting matters in accordance with Council's *Community Engagement Policy*.
- 8.2 For matters affecting the *Clayton Bay Dark Sky Zone*, Council will engage with relevant community representatives and DarkSky International stakeholders, particularly where changes may affect Dark Sky International Community outcomes.

9. Review

- 9.1 This Policy will be reviewed every four (4) years or earlier if required.

10. Availability of Policy

- 10.1 This Policy will be available on Council's website:
www.alexandrina.sa.gov.au
- 10.2 Printed copies will be provided upon request for a fee in accordance with Council's *Schedule of Fees and Charges*.