

POLICY TITLE:	SUSTAINABLE POLICY FOR COUNCIL ASSETS		
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RELATED POLICIES:	NSW GOVERNMENT RESOURCE EFFICIENCY POLICY NSW CLIMATE CHANGE POLICY FRAMEWORK 2016 NSW GOVERNMENT NET ZERO PLAN STAGE 1 2020-2030 NSW WASTE AND SUSTAINABLE MATERIALS STRATEGY 2041 GREATER SYDNEY COMMISSION'S NORTHERN DISTRICT PLAN RESILIENT SYDNEY- A STRATEGY FOR CITY RESILIENCE 2018 YOUR VISION YOUR FUTURE: HORNSBY SHIRE COMMUNITY STRATEGIC PLAN 2022-2032 HORNSBY SHIRE COUNCIL DELIVERY PROGRAM 2022-2026 SUSTAINABLE HORNSBY 2040 CLIMATE WISE HORNSBY PLAN 2021 HORNSBY SHIRE COUNCIL SUSTAINABLE PROCUREMENT DETERMINATION HORNSBY SHIRE COUNCIL WATER QUALITY AND CONSERVATION POLICY		

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1.0 Introduction

This Policy has been developed to integrate sustainability principles into the planning, design, construction and purchase of all new and refurbished Council assets. This Policy aims to contribute to Council's target of net zero emissions by 2050and lead by example in increasing the energy and water efficiency of Council assets, install renewable energy generation, reduce the embodied energy of materials used and support the circular economy through reused and recycled materials.

This Policy applies to new or refurbished built assets, plant and equipment, in the following asset classes:

- Buildings and other structures
- Bushland and natural assets
- Parks, landscapes and recreational assets
- Roads, car parks and footpaths
- Stormwater drainage
- Traffic facilities, road signs and traffic barriers
- Waste assets
- Water quality assets

This Policy is guided by Council's Sustainable Hornsby 2040 strategies and net zero by 2050 target. It is underpinned by the principle of ecologically sustainable development. The environmentally sustainable outcomes sought include:

- A reduction in greenhouse gas emissions (both embodied and operational);
- Reduction in consumption of energy and potable water;
- Increasing use of stormwater and rainwater; and
- The prioritisation of reused and/or recycled content materials.

2.0 Objectives

The objectives of this Policy are to:

- Address the long-term goals of the Hornsby Shire Community Strategic Plan 2022-2032 primarily focusing on 'We will minimise our footprint and transition to net zero''
- Meet the objectives of the Sustainable Hornsby 2040 strategies, including:
 - Reduce Council's greenhouse gas emissions to net zero by 2050 and reduce Council's vulnerability to a changing climate (Climate Wise Hornsby Plan);
 - Transition to a water sensitive city (Water Sensitive Hornsby Strategy); and
 - Achieve the 80% resource recovery target and support the circular economy.
- Guide and build capacity of Council staff and consultants on the incorporation of sustainability principles and practices into asset design, construction, maintenance and procurement.
- Create assets that minimise energy and potable water consumption and promote renewable energy and non-potable water alternatives.
- Build assets that promote the circular economy through the use of recycled content, reused, salvaged, locally made or lower embodied energy materials.

3.0 Guiding Principles and Requirements

The following is a list of sustainability principles and requirements that are to be considered in the implementation of all new or refurbished assets (as listed in section 1.0) regardless of value, location or use.

Prior to the scoping and/ or concept stage of any new, refurbished and replacement assets, Council's Sustainability Team is to be consulted regarding the Policy. All new buildings must achieve a minimum 5 star rating, for 'Design and as Built' and 4 star 'Building Performance' phases, under the Green Building Council of Australia Green Star Rating Tool or a 5 star NABERS rating.

All projects must consider the following and document the decision-making rationale:

- Incorporate passive solar design to maximise daylighting and passive heating and cooling opportunities.
- Incorporate energy efficient equipment and design to minimise lighting and minimise active heating and cooling requirements.
- Optimise opportunities to use renewable energy sources and incorporate renewable energy technologies wherever possible.
- Minimise embodied energy in construction materials¹ or source materials with an Environmental Product Declaration².
- Ensure hot water systems are energy efficient electric systems (e.g. heat pumps).
- Comply with the minimum WELS star rating, dependent on appliance type, as stipulated in Appendix 1.
 - Optimise alternative water supply while ensuring public health is not compromised.
 - Installation of energy efficient and renewable technologies.
 - Maximise re-used and recycled content materials, and the incorporation of low embodied energy or locally made materials if a suitable product is available.
- Transition away from gas and move to all electric buildings.

Major Buildings (any building that consumes more than 160MWh per year³)

All major buildings must also:

- Provide efficient control and effective maintenance systems that incorporate monitoring of energy consumption.
- Include installation of a Building Management System.

Minimum Standards for New Electrical Equipment

All new electrical equipment purchased must comply with high efficiency standards specified the NSW Government Resource Efficiency Policy. Refer to the Appendix 1 for the minimum standards for all new electrical equipment.

Minimum standards for water fixtures

All new water-using appliances purchased must comply with minimum standards outlined in Appendix 1.

¹ Embodied energy is a calculation of all the energy that is used to produce a material or product, e.g. bricks or timber have low embodied energy and steel has high (www.yourhome.gov.au/materials/embodied-energy)

² An Environmental Product Declaration includes information about the life-cycle environmental impact of a product and a verified carbon footprint (<u>https://epd-australasia.com/</u>).

³ As determined by electricity retailers for Installation of Smart Meters

APPENDIX 1

The following minimum standards are from the NSW Government Resources Efficiency Policy.

Minimum Standards for Water-using Appliances

Appliances and equipment in the following categories with star ratings under the Water Efficiency Labelling Scheme (WELS) must have at least the following star ratings:

- showerheads 3.5 stars
- toilets and urinals 4 stars
- washing machines 4.5 stars
- dishwashers 5 stars
- taps and flow controllers 5 stars.

Minimum Standards for New Electrical Appliances and Equipment.

*Appliances and equipment purchased in the following categories with star ratings under the Greenhouse and Energy Minimum Standards (GEMS) will be at least the following:

- refrigerators 2.5 stars
- clothes dryers (up to 10kg) 3 stars
- washing machines 3.5 stars
- dishwashers 4 stars
- pool pumps 7.5 stars
- fridge/freezers 3.5 stars
- freezers 3 stars
- air-to-air heat pumps and air conditioners 4 stars if less than 4kW and 3 stars if
- greater than 4kW (applies to both heating and cooling for reverse cycle air conditioners)
- televisions 5 stars (Tier 2 rating).

Equipment in the following categories will be endorsed as being high efficiency rating under ENERGY STAR® in Australia:

- computers (i.e. desktops, notebooks and tablets, workstations, small-scale servers and thin clients)
- printers
- fax machines
- photocopiers
- DVD players.

Equipment in the following categories will meet the definition of 'high efficiency' under Greenhouse and Energy Minimum Standards:

- refrigerated commercial display cabinets AS1731.14
- distribution transformers AS2374.1.2
- electric motors AS1359.5
- external power supplies AS4879.2.

Equipment in the following categories will meet the following performance benchmarks:

- air-cooled liquid chilling packages IPLV of 5.1
- water-cooled liquid chilling packages IPLV of 9.6
- closed-control air conditioners AEER of 3.3