

29th June 2021

Suite 1.11, 75 Mary Street,
St Peters NSW 2044 Australia
P: 02 8488 4600
www.igs.com.au

SUSTAINABILITY STATEMENT

FOR 19 HOPE ST & 69-77 HUGHES AVE, MELROSE PARK NSW

PROJECT NAME: 19 Hope St & 69-77 Hughes Ave, Melrose Park NSW
ATTENTION: City of Parramatta Council
FROM: Behrooz Shojaei

This Sustainability Statement has been prepared for the Planning Proposal submission to the City of Parramatta Council to affirm the project's commitments to sustainable development aspirations of the local area.

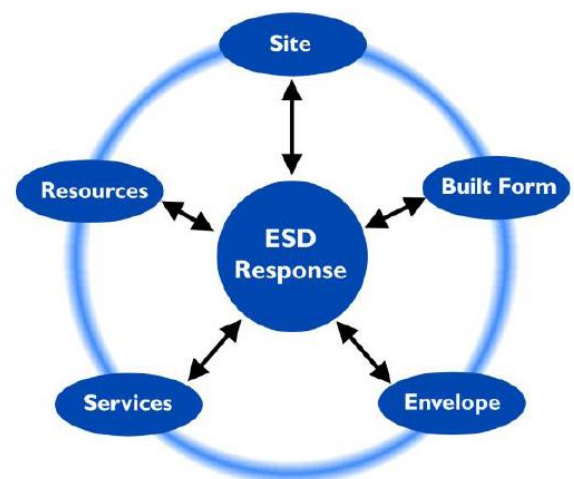
In compliance with the Council requirements, the principles of Ecologically Sustainable Design (ESD) will be an integral consideration throughout the design development of the development at 19 Hope St & 69-77 Hughes Ave, Melrose Park NSW. The sustainability targets for the development will be achieved in an integrated and staged approach through minimising the need for energy, water, and material consumption (via passive measures) and then consumption optimisation (energy & water efficiency) and use of renewable resources where required.

Integrated Design Approach

The integrated design process is a process by which all of the design variables that affect one another are considered together and resolved in an optimal fashion. Often referred to as holistic design, it looks at the development as a whole with the emphasis on integrating the different aspects of building's design.

Environmental sustainability will be considered in accordance with the following ESD principles:

- Reducing greenhouse gas emissions and consumption of vital resources through passive building design, efficient services and renewable energy generation.
- Maximising indoor environmental quality (IEQ) factors such as internal air quality, light and comfort.
- Resources conservation and management.
- Careful selection of materials to maximise recycled content and reduce environmental impacts.
- Minimising natural resource consumption, waste, pollution and toxicity during the refurbishment and operation of Hermes.





Where practical, the design team will incorporate the following sustainability measures and principles.

Load Reduction (minimising the need for energy, water and material consumption)	Passive Design
	Building fabric improvements, Glazing and Insulation improvements.
Optimising energy, water & material consumption	High efficiency ventilation, air-conditioning & control
	High efficiency lighting and lighting control
	High efficiency water fixtures <ul style="list-style-type: none"> • Water efficient fitting and fixtures, including: <ul style="list-style-type: none"> ○ 4 WELS Star showerheads; ○ 4 WELS Star toilets; ○ 6 WELS Star bathroom taps; and ○ 6 WELS Star kitchen taps. • Maximum use of native plants for landscape. • Rainwater collection
	Waste minimisation during construction and operation
Use of renewable resources and material re-use where possible	<ul style="list-style-type: none"> • Rainwater harvesting and connection for reuse for landscape irrigation. • Material re-use and conservation
Indoor Environmental Quality (IEQ) Initiatives	<ul style="list-style-type: none"> • Acoustic comfort • Visual comfort • Thermal Comfort outperforming BASIX compliance requirements.
Materials	<ul style="list-style-type: none"> • Ensuring comprehensive separation and recycling of demolition and construction materials. • Minimise use of Ozone Depleting materials • Where possible, specify materials with high recycled content • Participation in waste minimisation training for contractors and sub-contractors. • Waste minimisation plan to reduce site waste to landfill.
Land use and Ecology	Maintaining and improving the ecological value of the land
Emissions	<ul style="list-style-type: none"> • Insulation products with low Ozone Depletion Potential • Refrigerants with Ozone Depletion Potential of zero • Light Pollution: No light beam will be directed upwards or outside the building.

More specifically and in compliance with the Council requirements, the following sustainability measures will be embedded into the design of the development:

- Improved BASIX targets – BASIX Energy +10 above regulated minimum and BASIX water 48.
- Maximum use of passive solar shading and natural ventilation in dwellings to improve passive resilience.
- Mitigation of Urban Heat Island impacts through building design and landscape treatments.
- Maximising roof area allocated for the generation of renewable energy.
- Prioritising active transport.
- Future proofing through provision of EV charging infrastructure.
- Future proofing through all-electric buildings.
- Precinct-based initiatives to increase energy and water efficiency.

- Provision of dual water piping in all residential units.
- Avoiding synthetic refrigerants.
- Infrastructure to maximise separation and recovery of organic waste.

The sustainability initiatives and targets listed above will be further developed and fine-tuned during the Development Application and Detailed Design phases of the development.

Signed on behalf of Integrated Group Services (IGS) Pty Ltd.



Behrooz Shojaei

Senior ESD Engineer

MEng (UTS), MEngSc (UNSW)

GSAP, NABERS AP, CEC AP, CBD AA