

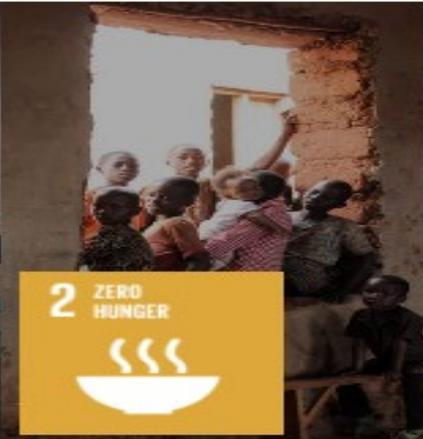
WESTERN SYDNEY
UNIVERSITY



Embedding Sustainability

Darren Greentree

Vice-President Finance & Chief Financial Officer



1 NO POVERTY

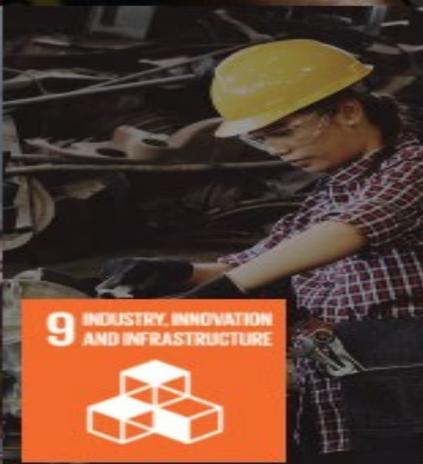
2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS



SUSTAINABLE DEVELOPMENT GOALS

[See all](#)

Ranked #1



Ensure availability and sustainable management of water and sanitation for all

Ranked #2



Ensure Sustainable consumption and production patterns

Ranked #3



Achieve gender equality and empower all women and girls

Ranked #4



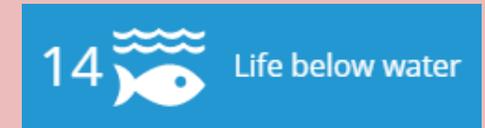
Reduce Income Inequality within and among countries

Ranked #10



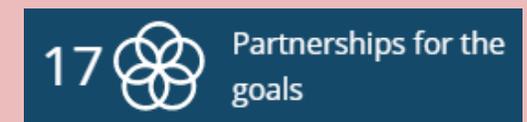
Protect, restore and promote sustainable use of terrestrial, ecosystems, sustainability managed forests, combat desertification, halt and reverse land degradation and halt biodiversity loss

Ranked #9



Conserve and sustainability use the oceans, seas and marine resources for sustainable development

Ranked #5



Strengthen the means of implantation and revitalise the global partnership for sustainable development



UNI IN THE WORLD

For commitment to United Nations' Sustainable Development Goals

Times Higher Education Impact Rankings 2022

EucFACE
(Eucalyptus Free Air Co₂
Enrichment)

World leading research
initiative that is investigating
the effects of rising CO₂ levels
on plants, animals and soil
microbes.



Agri Tech Hub (planning phase)

- 6 Star Green Star
- 5 Star NABERS Energy
- 5 Star NABERS Water
- Solar to be included

GREEN STAR

Founded by Green Building Council of Australia in 2003, Green Star is an internationally recognised rating system setting the standard for healthy, resilient, positive buildings and places specifically developed for the Australian environment

NABERS

(National Australian Built Environment Rating System)

Provides simple, reliable, and comparable sustainability measurement across building sectors. NABERS provides a rating from one to six stars for buildings efficiency across:

Energy

Water

Waste

Indoor environment

Science Building

(Parramatta South)

- 100kW photovoltaic array
- Gas boosted solar hot water
- Activated thermal mass – exposed concrete soffits
- High efficiency dehumidification air handling units
- In-slab hydronic cooling & heating system
- Efficient HVAC pumps & chillers
- BMS energy consumption monitoring
- Sustainably sourced materials
- Eco Concrete (proportion of recycled concrete)
- Sustainable structural system, finishes & materials
- Furniture and equipment with sustainable properties





Innovation Quarter (Westmead)

Key sustainability features include:

- Intelligent lighting
- Optimised daylight penetration
- Smart meters to minimise energy consumption
- Water efficient fittings
- EV charging
- Native planting and landscaping
- Solar rooftop panels

Latest advances in healthy building initiatives to help reduce the risk of virus transmission .

Amenities and end-of-trip facilities feature automated doors, touch-less interfaces to showers, toilets, soap dispensers, taps and hand dryers, enabling a seamless and contactless experience.

- 6 Star Green Star
- 5 Star NABERS Energy
- 4 Star NABERS Water
- Gold WELL Certification
- Carbon Neutral Enabled Certification



Engineering Innovation Hub (Parramatta)

Smart technologies combined to enhance productivity and workplace experience.

- Touchless lift call (via app)
- Touchless smart bathrooms
- Bespoke building app
- Seamless public Wi-Fi
- Electric Vehicle Charging Stations
- Rooftop Solar Panels
- Optimised daylight penetration

Landscaped relaxation areas for staff, student and tenant wellbeing and productivity.

- Star Green Star
- 5 Star NABERS Energy
- 4 Star NABERS Water
- Gold WELL Certification





Bankstown City Campus

- Building 6 Green Star Design & 5-star NABERS energy rating
- Solar array - 40kW
- Green power supply
- Air tightness testing performed to reduce uncontrolled airflow, air leakage and unwanted drafts
- 92% construction waste was recycled
- Using materials with low Volatile Organic Compounds and low formaldehyde levels to minimize indoor pollutants
- A rainwater tank is provided installed to reduce water consumption and serve washdowns, WC's and urinals



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**Discussion with
Unimutual CEO**