

Green Star Rating System



Who is the GBCA?

GBCA is a world renowned organisation dedicated to transforming the built environment.

Since 2002, we have driven real change by creating market-based solutions that empower industry to embrace sustainable practices.



Green Building Council Australia

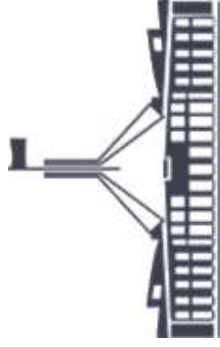
Inspire

people on how to design and deliver sustainable outcomes for our buildings and communities.



Influence

policies and programs that support our mission and work with industry and government to achieve these goals.



Empower

the building industry to change through market based solutions that reward leadership and demonstrate value.



Our vision Healthy, resilient, and positive places for people and the natural environment



 **greenstar**

Developed by the
Green Building Council of Australia



Rating tools in Australia

- NABERS Energy
- Green Star
- IS (infrastructure)

Worldwide

LEED (USA), Living Building Challenge (USA),
BREEAM (UK), GreenMark (Singapore)



What is NABERS?

NABERS is a suite of rating tools that individually measure the energy efficiency (ENERGY), water usage (WATER), waste management (WASTE) and indoor environment quality (IE) of a building or tenancy in operation and its impact on the environment.

NABERS is managed by the New South Wales Office of Environment and Heritage.



What is Green Star?

Green Star is an internationally recognised sustainability rating system.

From individual buildings to entire communities, Green Star is transforming our built environment to create sustainable places for everyone.



Green Star is universal, relevant, rigorous



Communities

Available



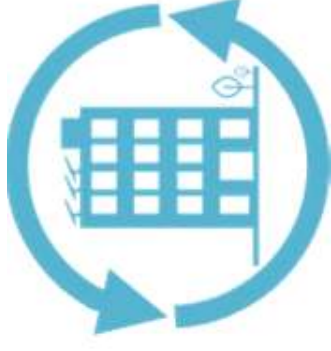
**Design &
As Built**

Available



Interiors

Available



Performance

Available

Certification you can trust

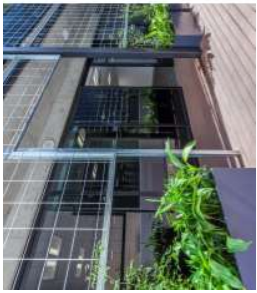
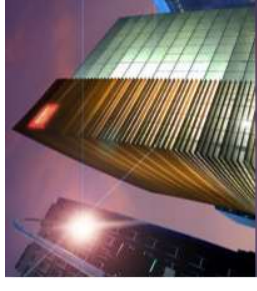
A Green Star rating provides independent verification that a building, fitout, or community project is sustainable.

Undertaking voluntary Green Star certification demonstrates leadership, innovation, environmental stewardship, and social responsibility.





1300+
certified projects



Green Star is valued by the investment community



G R E S B[®]



Climate
Bond
Certified

Outcomes that matter

Leading indexes and financial instruments like GRESB and Climate Bonds recognise Green Star as a measurement of quality and leadership



October 2014

ASX/Media Release

STOCKLAND ISSUES FIRST AUSTRALIAN CORPORATE GREEN BOND

Stockland has successfully priced the first green bond issued by an Australian corporate. Stockland's green bond is a debt instrument where the proceeds are used to fund eligible environmentally sustainable projects. This will include funding the development and construction of residential, commercial, retail, and retirement living projects. Stockland was named one of the World Economic Forum's 'Global 100 Most Sustainable Companies' in 2013, and is a member of the World Economic Forum's 'Green Building Leadership' group.

-ASX

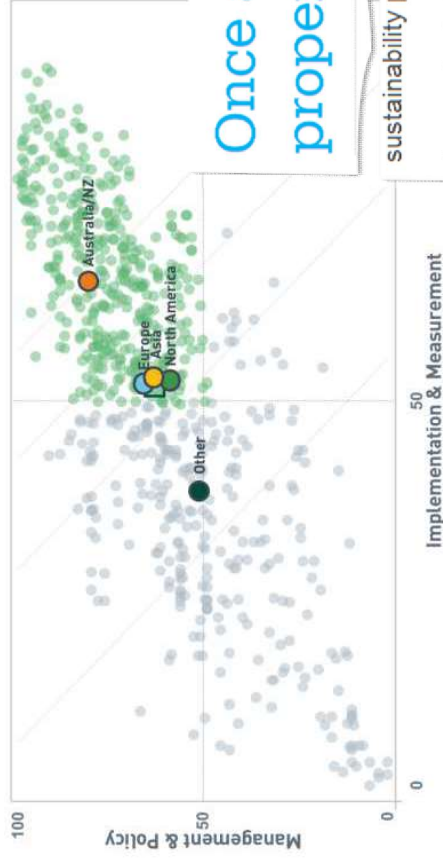
Both Stockland and ANZ have issued Green Bonds with proceeds will be spent on Green Star-rated buildings giving investors confidence and a solid guarantee that a bond is truly green.



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GRESB & Australia

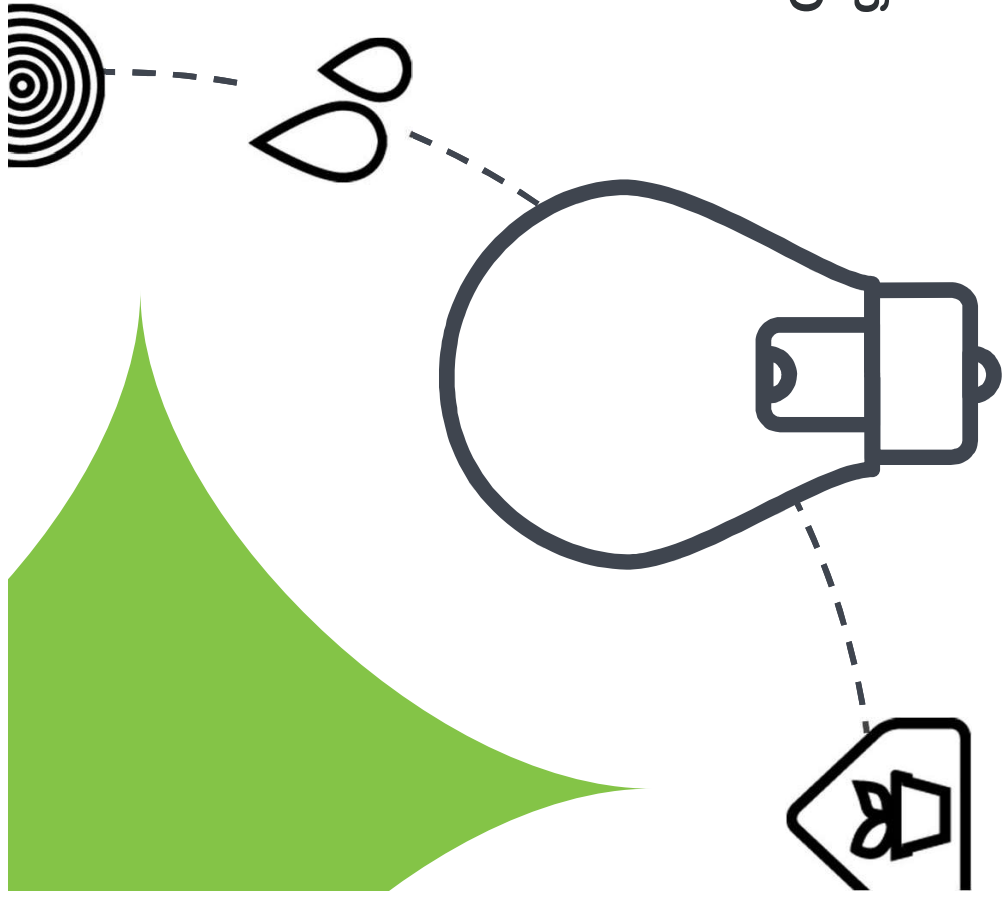
We're high achievers



Once again, Australia's sustainable property portfolios lead the world

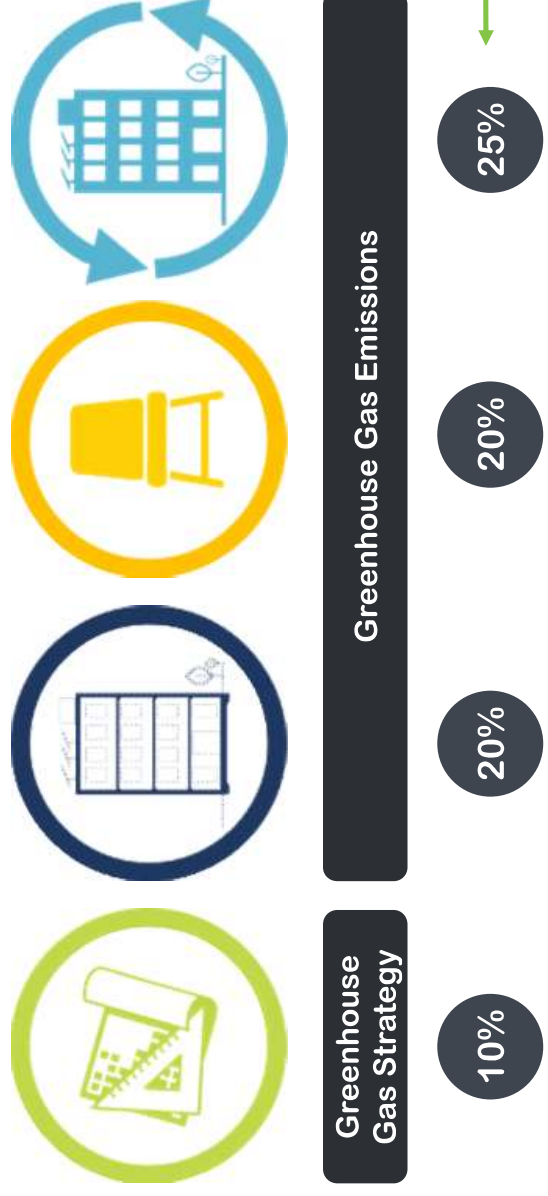
sustainability performance annually, compared with 85 per cent globally.

Across Australia and New Zealand, more than half (54%) of the companies and funds obtain green building certificates like Green Star and 87 per cent have an energy rating, compared with 71 per cent globally.

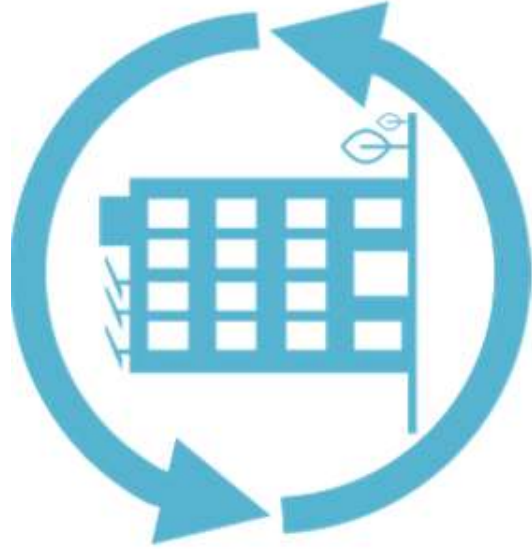


Green Star has always had a
greenhouse gas emissions focus.

Greenhouse Gas Emissions in Green Star



Green Star is improving our building operations



Introducing Performance

a single, streamlined ratings
tool for existing buildings &
building portfolios



Management

- Green Star Accredited Professional
- Building Information
- Commissioning & Tuning
- Ongoing Monitoring & Metering
- Environmental Management
- Green Cleaning
- Commitment to Performance



Transport

- Alternative Transportation Program
- Transportation Modes Survey



Water

- Potable Water
- Fire Protection Services



Materials

- Procurement & Purchasing
- Waste from Operations
- Waste from Refurbishments



Land Use and Ecology

- Biodiversity and Ecological value
- Groundskeeping Practices



Emissions

- Stormwater Control
- Light Pollution
- Impacts from Refrigeration



Energy

- Greenhouse Gas Emissions
- Peak Electricity Demand



Indoor Environment Quality

- Quality of Indoor Air
- Hazardous Materials
- Lighting Comfort
- Daylight & Views
- Thermal Comfort
- Acoustic Comfort
- Occupant Comfort Survey



Innovation

Where a project addresses a sustainability issue outside the of existing Green Star Credits, Innovation points can be awarded for solutions that enhance the sustainability credentials beyond the requirements of the rating tool.

- Innovative Technology or Process
- Market Transformation
- Improving on Green Star Benchmarks
- Global Sustainability
- Innovation Challenge

Scope 3

Scope 1 & 2



Performance

Carbon
neutrality will
become a de-
risking
strategy



Canberra Institute of Technology - Sustainable Skills Training Hub - 6 Star Green Star - Education Design v1

Our commitment to reduce climate change by saving 84 gigatonnes of CO₂. It's more than hot air.

84 gigatonnes of CO₂ by 2050. That's the same as not building 22,000 coal powered plants. Country by country, Green Building Councils are committing to this goal at COP21 Paris.

Advancing Net Zero



10 green building councils:

- CaGBC
- ChinaGBC
- DGNB
- DutchGBC
- GBCA
- GBCBrazil
- GBCSA
- IndiaGBC
- SweGBC
- USGBC

Supported by:

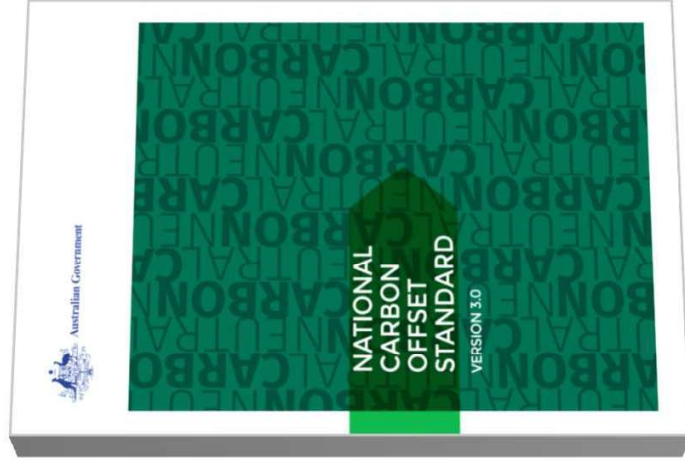


Rockefeller Brothers Fund
Philanthropy for an Interdependent World





Australian Government
Department of the Environment and Energy



BASE BUILDING

WHOLE BUILDING

PRECINCTS

30% more efficient than typical

Base building energy consumption and generation (building common areas and external)

Tenants' energy consumption

Renewable energy (on-site + offsite)

Wastewater

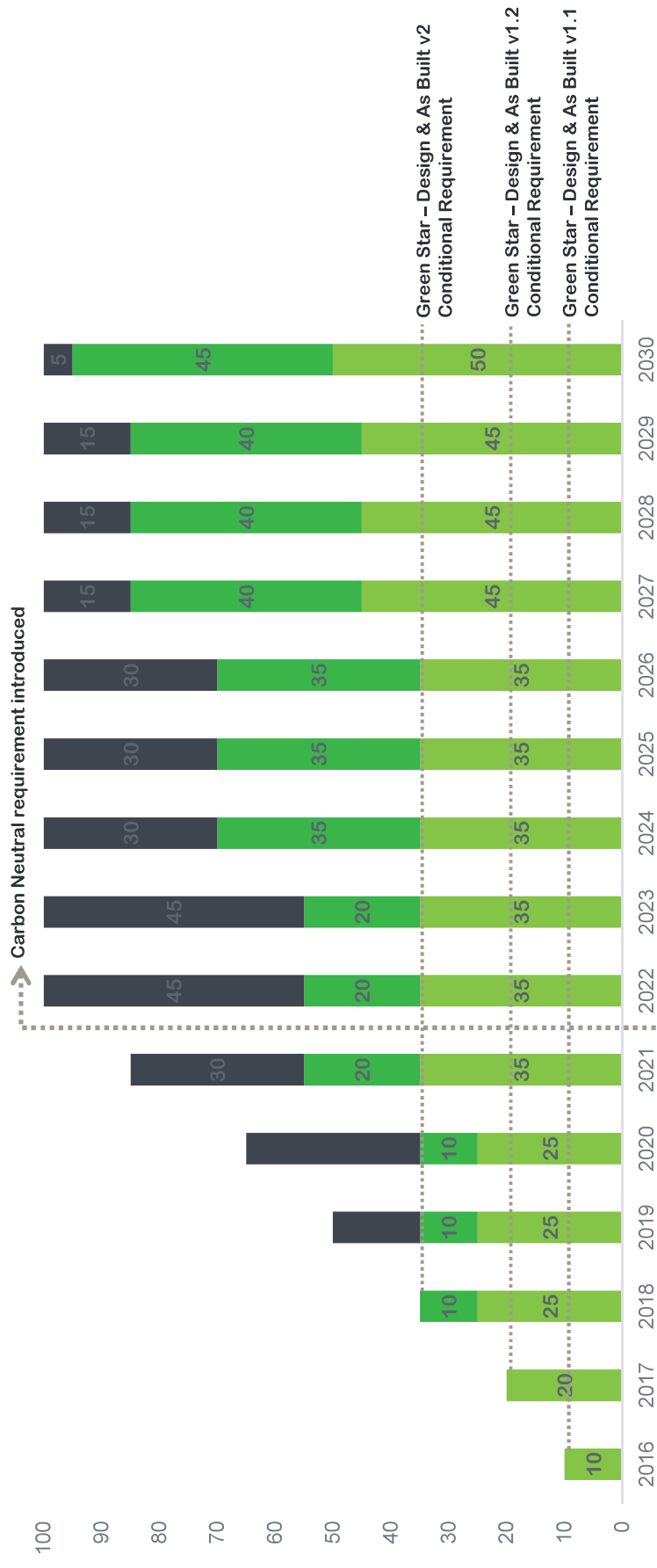
Water consumption

Waste from consumption

Offsets

Green Star Minimum Requirements: 6 star ratings

Pathway towards a less than 2°C world



■ Any other means (offsets, additional energy efficiency measures, more renewables)

■ Renewable energy (on-site or off-site)

■ Emissions from energy intensity and on-site energy generation



Thank You

gbca.org.au



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