With thanks to our partners:

**Future Focus Partners**

**Silver Partners**

| LANDCOM | FRASERS PROPERTY | Stockland | WSP |

**Technical Partner**

| Future Homes Partners

**Gold Partner**

| Stockland |

**Supporting Partners**

| DAIKIN | BLUEScope | InfraBuild | SEKISUI HOUSE |

**Carbon Positive Partners**

| FRASERS PROPERTY | Dexus | Indiasee | INTEGRAL | GPT |
Foreword from our CEO Davina Rooney: 
Transforming the built environment

2020 will be remembered for drought, bushfire, smoke and a global pandemic. While these crises have brought uncertainty, they haven’t weakened our resolve to transform our built environment.

Our commitment to create buildings, cities and communities that are healthy, resilient and positive places is stronger than ever and we know you are with us every step of the way. That’s why 2020 has also been a year of hope, collaboration and achievement for our industry.

We recently delivered Green Star Buildings – the biggest overhaul of the Green Star rating system in 18 years. This was no solo effort; we were guided by expert advisory panels made up of 150 industry professionals and 10 early access partners who shaped the tool into what you see today.

Industry was also there to help us take Green Star into the places we live. We’re working on the final standard of Green Star Homes and it’s set to transform the housing market to ensure new homes are built to focus on health, resilience and net zero energy.

These new rating systems were an opportunity to share our new brand; a fresh look that shows we’re looking to the future while helping our members showcase their achievements in sustainability.

Our work this year was underpinned by the celebration of 3000 Green Star certifications, a milestone that our whole industry can draw optimism from.

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Highlights for this year

“Green Square Library and Plaza is a playful example of how Green Star can help drive world-leading outcomes in public buildings. Nestled beneath the Green Square Town Centre, the underground library features more than 40 skylights, a garden atrium and reading nooks – the perfect place to escape and learn.”

Lyanna Ros
Technical Coordinator,
Green Building Council of Australia

Introducing Green Star Buildings

Healthy, resilient, and positive places for people and nature, built responsibly and showcasing leadership.

In October 2020 Green Star Buildings, the first of the new suite of Green Star tools under our Future Focus program, was released to industry. Green Star Buildings sets out a new definition of what it means to deliver a world-leading building. It also defines what it means to be designed to be net-zero carbon in operations – fossil fuel free, highly efficient, powered by renewables, built with lower upfront emissions and offset with nature. It also requires that 6 star rated buildings meet this goal and provides a roadmap for the built environment to decarbonise by 2030.

Green Star Buildings responds to the three key megatrends in the built environment – climate action, health and wellbeing, and resource efficiency. It also drives opportunities for supply chain transformation and creates clear expectations for new buildings.

The development of Green Star Buildings followed an in-depth three-year consultation process with industry. Hundreds of people were involved by either providing feedback, attending our workshops, or participating in our Expert Reference Panels, Advisory Groups or Advisory Committees.

We worked with 11 early access projects to test the draft credits in practice. To see the case studies that we developed with our early access projects, visit https://new.gbca.org.au/showcase/

Green Star Buildings was designed to meet the demands of the next decade and beyond with aspirational benchmarks for the design and construction of buildings. We can’t wait to see what industry delivers.

Delivering a new definition of a sustainable building

There are eight categories representing the issues that will define the next decade of the built environment.

“The Green Square Library and Plaza is a tool for our time. It encourages bold action to eliminate emissions and responds to the needs of building developers, owners, tenants and investors alike who no longer want just a green building, they want a great building.”

Susan Lloyd-Hurwitz
GBCA Chair & Mirvac’s CEO
Introducing Green Star Homes
As part of our Future Focus program we introduced Green Star Homes, the newest of our Green Star rating tools specifically designed for detached houses, dual occupancies and townhouses. Green Star Homes is a national standard that defines a home as being healthy, resilient, and highly efficient and fully powered by renewables. Green Star Homes also sets out clear requirements to test and verify the construction of all homes seeking to be Green Star Certified.

Green Star Certified homes will be nationally recognised as:
- **Positive** – net zero energy, fully electric, draught sealed, efficient and powered by renewables;
- **Healthy** – ventilated, comfortable, with products that are better for you; and
- **Resilient** – water efficient and climate change ready.

Stockland, Mirvac, Metricon, Rawson Homes, Chatham Homes, Passive House, Landcom, Development Victoria and Ingenia Communities are confirmed as Early Access Partners to pilot the new draft Standard. We thank them for their support.

The Green Star Homes Standard is part of our Future Homes strategy, which also includes actions around education and advocacy. Our Future Homes strategy aims to create the conditions to enable the National Construction Code to push for improved regulation, and Green Star Homes is a key step in this process.

Certifications at record level
Green Star certification continues to be pursued by hundreds of projects every year
This year we certified 456 projects, the most ratings issued in a single year. The increase reflects the continuous uptake of Green Star – Performance certifications and recertifications, and a solidifying of Green Star – Design & As Built (As Built) certifications.

As of June 2020, we have issued 2,827 certifications against more than 2,000 buildings¹.
In a nutshell²:
- 48 million sqm of building space is Green Star certified
- 44% of CBD office space is Green Star certified³
- 40% of retail space is Green Star certified⁴
- 1.3 million people visit a Green Star-rated shopping centre each day
- 60,500+ people will live in Green Star-rated apartments
- 790,000+ people will live or work in the 50+ Green Star communities we have certified, including 450,500 + residents and 340,000 workers and students
- 17,000+ ha of Green Star Communities certified
- 800,000 people visit and heal in Green Star certified hospitals each year (370,000 inpatients plus 430,000 emergency/outpatients)

¹Total certifications issued up until the end of FY20. This number includes expired ratings (Green Star – Performance projects that didn’t continue certification) and recertifications (for Green Star – Performance and Green Star – Communities projects).
²See end of the report for calculation methodologies
³Source: MSCI / PCA Green Property Index 2020
⁴Source: MSCI / PCA Green Property Index 2018

“Every year we break our certification records, clearly showing why Green Star is the rating tool of choice for the built environment. We can’t thank industry enough for all your support”

Nick Alsop
Senior Manager Market Engagement,
Green Building Council of Australia

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*As Australia’s largest residential developer, we are passionate about creating liveable, connected and sustainable communities across the country. We are delighted to be partnering with Green Building Council of Australia to deliver one of the first new Green Star Homes in the country as part of the Early Access program. This program will make an important contribution to the delivery of sustainable new homes now and into the future*

Andrew Whiston
Stockland Group Executive and CEO Communities
The case for Green Star

This year we released three reports making the case for certifying with Green Star.

Green Star in focus: The business case
Released in March 2020, The business case outlines why industry continues to seek verified, trusted third-party certification like Green Star. The report shows how companies use Green Star to demonstrate leadership, communicate with customers, reduce project risk, attract talent, accelerate innovation, and inspire supply chain collaboration. It also outlines how the rating system is used as a tool to attract finance and tax concessions, meet reporting obligations and prepare assets for a carbon positive future.

“Green Star’s final stamp of approval is unarguable – you have either built it right or you haven’t. The only way to get true confirmation that you’ve met Green Star benchmarks is to get a rating.”
Patrick Campbell, ESD Engineer, Hutchinson Builders

Green Star in focus: The case for sustainable industrial buildings
Released in August 2020, The case for sustainable industrial buildings warns of the increasing risk of significant industrial assets becoming stranded if they can’t show that they are low or zero carbon. The report underscores that the technology, design, materials and expertise are available now to build more sustainable buildings which will meet investors’ growing demand for future-proofed investments that uphold environmental and social governance principles.

“Green Star – Performance enables us to benchmark the environmental performance of our assets and provides a recognised industry standard for investors and customers.”
Jonathan Harrison, Fund Manager, APPF Industrial

Sustainable industry finance guide
Developed in collaboration with NABERS, GRESB, and the ClimateBonds Institute, this industry guide provides information about sustainable finance in the built environment in Australia. It is designed to support investor understanding of Australia’s world-class rating tools and standards, and how these can be applied to direct more capital towards sustainable finance for our built environment.

These reports, alongside others for healthcare and schools can be found on our website.

Green Star Champions

In June we announced our 2020 Green Star Champions, a new GBCA award, recognising the vision, passion and commitment of leaders across our industry who work tirelessly to deliver a more sustainable built environment using our Green Star certification program. Our 40 Green Star Champions are ambassadors for Australian excellence, for the delivery of world leading projects across our cities and communities.

Our inaugural Green Star Champions:
Alicia Maynard, ISPT
Andrew Thai, Frasers Property Industrial
Anthony Marklund, Floth
Bruce Precious, Six Capitals Consulting
Chris Nunn, AMP Capital Investors
Daniel Grunbaum, Lendlease
Daniele McCartney, University of Technology Sydney
Darryl Stuckey, Lendlease
David Clark, Cundall
Deborah Davidson, D Squared Consulting
Gerard Healey, University of Melbourne
Graham Agar, Full Circle Design Services
Greg Johnson, Stockland
Hannah Morton, Cundall
Ian Adams, Organica Engineering
James Wewer, Lendlease
Jeff Robinson, Aurecon
Jeremy Mansfield, Lendlease
Jessica Stewart, Riverview Projects
Jo-Ann Gamble, Lendlease
Jonas Bengtsson, Edge Environment
Jonathan Dalton, Viridis Australasia
Kristie Martin, Viridis Australasia
Lauren Kajewski, Landcom
Lisa Hinde, JLL
Marine Calmettes, Frasers Property Industrial
Matt Williams, LCI Consultants
Matthew Napper, Stockland
Natasha Mulcahy, Sekisui House
Oliver Grimaldi, Cundall
Paolo Bevilacqua, Frasers Property Australia
Patrick Campbell, Hutchinson Builders
Paul Davy, D Squared Consulting
Quentin Jackson, Aurecon
Richard Palmer, Integral Group
Roger Swinbourne, ARUP
Rory Eames, Brevet
Rory Martin, Frasers Property Australia
Samantha Peart, Development Victoria
Sally Hamilton, Sydney Olympic Park Authority

“I can’t count the number of Green Star Champions I’ve met and worked with during my involvement with the Green Building Council of Australia. Every one of them putting in those extra hours and building an extraordinary body of knowledge that is captured in the Green Star tools.”

Bruce Precious
Six Capitals Consulting

The work of our Green Star Champions demonstrates the meaningful long-term change that individuals can affect by ensuring better outcomes for projects and the community through Green Star. We thank all our Champions for their ongoing commitment, and for helping to deliver a low emissions future for all Australians.
Achievements to date

"Daramu House shows how industry is continuing to drive innovation in the responsible products space. Daramu House reimagines the capabilities of timber construction and delivers this in an architecturally striking, world-leading Green Star rated building."

Diveshen Gengiah
Technical Coordinator,
Green Building Council of Australia

Green Star in FY20

Green Star continues to be the rating tool of choice for the built environment in Australia

2,827 certifications\(^5\) issued (as of June 2020)

456 certifications (FY20)
398 certifications (FY19)
337 certifications (FY18)

Certified ratings issued by primary space use (total)

- 1% Healthcare
- 1% Train station
- 23% Retail
- 5% Residential
- 4% Education
- 44% Office
- 12% Industrial
- 5% Retail shopping centre
- 2% Community
- 1% Mixed use
- 1% Custom
- 5% Interiors
- 3% Design & As Built
- 38% Legacy
- 2% Communities

*Certification numbers include expired ratings (Green Star – Performance projects that didn’t continue certification) and recertifications (for Green Star – Performance and Green Star – Communities projects).
Emissions reductions in Green Star rated buildings

All new Green Star rated buildings and fitouts are required to do better than legislation by at least 10%. However, most Green Star rated buildings do much better than that. Based on a sample of 770 new buildings certified as of 30 June 2020, Green Star certified buildings are designed and built to produce 56% fewer greenhouse gas emissions than standard new buildings. The savings increase with the star ratings.

<table>
<thead>
<tr>
<th>Average % reduction GHG</th>
<th>4 star</th>
<th>57%</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 star</td>
<td>6 star</td>
<td>70%</td>
</tr>
<tr>
<td>Total</td>
<td>56%</td>
<td></td>
</tr>
</tbody>
</table>

Green Star certified new buildings alone save:
- 920 million kg CO2e each year
- 5.7 billion kg so far (total for all time)
- 56% average GHG emissions reduction

This is equivalent to:
- 196,828 cars off our roads every year
- 99,264 households’ emissions every year
- 23,568,834 tree seedlings grown for 10 years

That means that the savings from 6 stars are even bigger, making Green Star a valuable mechanism to guarantee savings long term.

"The continued emissions savings from Green Star rated buildings shows the value of certification. Having your design objectives validated ensures you are getting exactly what you aimed to achieve."

Simon Ng
Technical Specialist,
Green Building Council of Australia

Green Star – Design & As Built

From offices to hospitals and from apartments to universities, Green Star has driven real transformation in new buildings of all sizes and sectors.

As the most widely used holistic rating system in Australia, Green Star – Design & As Built’s success is unmatched. Its nine categories are well known in industry, and the certification is a mark of quality used by corporates, tenants, developers, builders, and consultants to showcase their leadership. Not counted in this graph is the significant increase of ‘Design Review’ ratings, which will show up in future years as those projects are completed.

Certified ratings issued by primary space use

<table>
<thead>
<tr>
<th>Primary space use</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>33%</td>
</tr>
<tr>
<td>Industrial</td>
<td>20%</td>
</tr>
<tr>
<td>Mixed use</td>
<td>13%</td>
</tr>
<tr>
<td>Residential</td>
<td>11%</td>
</tr>
<tr>
<td>Healthcare</td>
<td>4%</td>
</tr>
<tr>
<td>Education Schools</td>
<td>1%</td>
</tr>
<tr>
<td>Retail</td>
<td>16%</td>
</tr>
</tbody>
</table>

"Green Star certification provided a sustainability road map for Collins Square. The precinct is a living example of how embedding sustainable design principles in the design phase sets up a project for optimal environmental performance in its operational phase."

David Gallant
Chief Operating Officer, Walker Corporation

*See Endnotes for how these figures were calculated."
This year we saw the first round of Green Star – Communities recertifications since the rating tool was released. These projects are demonstrating their continued commitment to delivering sustainable communities.

As of June 2020, 57 projects have been certified through Green Star – Communities which includes 53 separate communities projects, and the recertification of 4.

**Green Star – Communities quick facts**

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</tr>
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<tbody>
<tr>
<td>ACT</td>
<td>1</td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>NSW</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>QLD</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1*</td>
<td></td>
<td></td>
<td>13</td>
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<td>SA</td>
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<td>WA</td>
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<td>1</td>
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<td>3</td>
<td>2*</td>
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<tr>
<td>International</td>
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<td></td>
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<tr>
<td><strong>Total</strong></td>
<td>6</td>
<td>6</td>
<td>15</td>
<td>11</td>
<td>5</td>
<td>14</td>
<td>57</td>
</tr>
</tbody>
</table>

* Highlights recertifications

"Backed by a 5 Star Green Star rating, Country Road’s flagship store at Chadstone in Victoria revolutionises the retail experience, maintaining our commitment to quality while demonstrating our connection to the environment. It shows that sustainability in fashion extends into retail store fitouts, as well as garment production."

**Elle Roseby**
Managing Director, Country Road
Green Star – Performance

Green Star – Performance has been growing significantly since 2014. Green Star – Performance is used by building owners as a measure of how successfully they are managing their existing assets and provides incentives to improve the operational performance of existing buildings.

Through our portfolio certification process, organisations are benchmarking their operational performance and setting targets for improvements across hundreds of buildings every year.

Certified ratings issued by primary space use

- 4% Residential
- 39% Retail
- 31% Office
- 18% Industrial
- 6% Retail shopping centre

Performance ratings issued per sector

<table>
<thead>
<tr>
<th>Primary space use</th>
<th>Individual</th>
<th>Portfolio</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retail</td>
<td>11</td>
<td>441</td>
<td>452</td>
</tr>
<tr>
<td>Office</td>
<td>29</td>
<td>329</td>
<td>358</td>
</tr>
<tr>
<td>Industrial</td>
<td>8</td>
<td>253</td>
<td>261</td>
</tr>
<tr>
<td>Retail - Shopping Centre</td>
<td>65</td>
<td>11</td>
<td>76</td>
</tr>
<tr>
<td>Residential</td>
<td>-</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>Residential - Retirement living</td>
<td>-</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Mixed use</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Education - Schools</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Healthcare</td>
<td>-</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>119</td>
<td>1112</td>
<td>1231</td>
</tr>
</tbody>
</table>

"We’re proud to have received a 4 Star Green Star Performance rating for our portfolio, and to be taking on a leadership position, which reinforces our commitment to creating more sustainable business outcomes for our customers, communities, and investors."

**Grant Kelley**
Chief Executive Officer, Vicinity Centres

Volume certification program

Volume certification continued to be used by businesses wanting to replicate a sustainable design or approach to certification across multiple sites and projects.

Companies like Frasers have joined the program and are developing base building design standards around Green Star requirements.

Distibution of projects by primary space use

- 1% Community
- 1% Retail shopping centre
- 62% Retail
- 20% Industrial
- 6% Metro station
- 4% Residential
- 4% Mixed use
- 3% Office

Commonwealth Bank sets the example

The Commonwealth Bank of Australia has achieved the highest number of Green Star certifications for a non-property organisation. Commonwealth Bank became one of the first users of the Green Building Council of Australia’s Volume Certification Program, and since 2016 has certified 30 branches to a 5 star rating or above.

Commonwealth Bank paved the way for other financial institutions, as well as industrial facilities, retail stores and restaurants to achieve volume Green Star certification across a number of projects.

Volume certifications for Green Star are growing rapidly as more companies see the value in reducing costs, future-proofing assets, and helping more people enjoy the many benefits working in a Green Star environment. Commonwealth Bank’s office fitouts and bank branches use low chemical paints, Forestry Standard certified timber and water-efficient fixtures and fittings. They have also seen energy cuts of 40% compared with typical branches.

"Commonwealth Bank actively considers key developments such as the Sustainable Development Goals to evolve and refine its approach to corporate responsibility. The bank has mapped its existing programs of work to the SDGs. Green Star certifications provide a reputable benchmark to align our activities with our sustainability goals."

**Jennifer Saiz**
Executive General Manager, Group Property and Security, Commonwealth Bank
Green Star is recognised by governments at all levels and used to drive significant emissions reduction through accommodation and leasing standards, policies and incentive schemes of all kinds.

Some examples of procurement standards for office accommodation set by state governments around Australia:

- **1,000msq:**
  - 4 or 5 Star Green Star – Design & As Built
  - 5 Star Green Star – Interiors

- **2,000msq:**
  - Minimum 5 Star Green Star – Design & As Built

- **>2,000msq:**
  - Minimum 5 Star Green Star – Design & As Built

With governments looking to infrastructure projects to support Australia’s economic recovery, Green Star is being used to support good decision making so that more government investments can better service our communities.

### The sunshine state shines a light on sustainability

In 2020, we worked with the Queensland Government’s infrastructure advisory body, Building Queensland to develop a sustainability assessment framework for building projects based on the Green Star – Design & As Built tool categories and credits.

Projects with a capital value of more than $100 million are required to undertake sustainability assessment for proposal using BQ’s assessment approach, or through Green Star.

### Government leadership

Green Star is recognized by governments at all levels and used to drive significant emissions reduction through accommodation and leasing standards, policies and incentive schemes of all kinds.

### Local government

Across Australia, local governments have certified libraries, business centers, bus depots, child care facilities, town halls, office buildings and swimming pools as well as two Green Star Communities.

- Local government Green Star rated buildings are designed to produce 58% fewer GHG emissions on average than standard new buildings:
  - 4 Star Green Star 39%
  - 5 Star Green Star 61%
  - 6 Star Green Star 72%

- As a collective, local governments are the third biggest user of Green Star Design & As Built rating tools across Australia.

- There is 292,188m² of Green Star certified space across Australia.

Green Star is also used by local governments as a benchmark on which to base decision making relating to sustainability, as it provides a holistic set of best-practice criteria developed in consultation with the building and construction industry.

#### % Green Star local government owned certified space by state

- **6%** WA
- **23%** NSW
- **40%** QLD
- **31%** VIC

*Where a project had both a Green Star Design and a Green Star As Built rating, only the area for the As Built rating has been included.*

### Brisbane shows the way

In 2020, Brisbane City Council launched a new green buildings incentive policy to support and encourage development of greener and more energy efficient buildings across Brisbane. In support of Council’s vision of a world-class, design-led city, the Brisbane Green Buildings Incentive Policy will offer eligible applicants a 50% rebate on infrastructure charges paid for Council networks.
New Zealand Green Building Council (NZGBC)

Adopted since 2007, Green Star NZ has influenced how buildings and fitouts are built in New Zealand. Thanks to the leadership of the New Zealand Green Building Council (NZGBC), the country values highly the power of certified assets, expanding into the residential sector with Homestar, their own rating system for homes. 
Throughout the last fiscal year, the NZGBC has certified a total of 12 new buildings and 1 fitout in New Zealand to a Green Star rating tool. One additional building was certified under Green Star – Performance and two other projects in New Zealand were certified by GBCA under Green Star Communities v1.1. GBCA and the NZGBC have continued to collaborate, co-releasing Green Star in focus: The case for sustainable industrial buildings.

Green Building Council South Africa (GBCSA)

Green Star was adopted in 2008 by GBCSA. Since then it has expanded to cover all aspects of the rating system. GBCSA has expanded Green Star to include a socio-economic category, a first for the system, and introduced a net zero certification scheme. To date, 551 Green Star certifications have been awarded to projects throughout the African continent by the GBCSA. In the last fiscal year, the GBCSA has certified a total of 77 projects to a Green Star rating tool.

The majority are New Build totaling 248 and Existing Building Performance ratings totaling 267, but also include 2 Sustainable Precinct ratings and 34 Interiors Ratings. Whilst the majority of these ratings are in South Africa, ten of the certifications represent green buildings across Africa, with projects in Ghana, Namibia, Kenya, Tanzania, Rwanda and Mauritius.

Green Star overseas

While Green Star is proudly Australian, other Green Building Councils have adopted it and made it their own. We are proud to call them partners in our journey to improving the built environment worldwide.
Green Star in focus

U City’s innovative answer to aged care

Set to be one of South Australia’s most sustainable buildings, U City is a new addition to the Adelaide skyline that is bringing community back to the Central Business District. Owned and operated by not-for-profit service provider Uniting Communities, the design vision was to create a connected community where people of all ages and abilities can flourish in a vertical village.

The building, which has achieved an impressive 6 Star Green Star Design & As Built rating, is a mixed use development, offering a range of services scarcely found in the inner city, including retirement residences, specialist disability accommodation, a social services hub and commercial spaces.

Some of the key project goals and initiatives included:

- Reduced impact from resources: 96% of materials from the previous structure recycled, and the frame of the new building was constructed using recycled reinforced steel.
- Designed to use 45% less energy and 30% less water than a comparable new building.
- Efficient design features: solar panels, double glazed windows, reflective roof paint, natural ventilation, water efficient fitting.

Given this Uniting Communities model of prioritising sustainability alongside social inclusion has found such success, one can only hope that more developments like this gain traction in the future.

"As an organisation, we have an ongoing commitment to sustainability as we acknowledge that climate change will most adversely impact people facing disadvantage in our communities, these are people that we are supporting every day through our services and advocacy."

Simon Schrapel
Chief Executive at Uniting Communities

"Kingspan has committed to the World Green Building Council Net Zero Building 2030 challenge. Their Green Star – Performance rating shows that they are on the way to achieving this goal."

Deejan Ferrao
Technical Advisor,
Green Building Council of Australia
Melbourne Conservatorium of Music plays to renewable energy

The University of Melbourne has continued down the path towards carbon neutrality by 2030 with the completion of its 5 Star Green Star rated Ian Potter Southbank Centre, a new home for the Melbourne Conservatorium of Music that also happens to be a 100% electric zero-carbon ready building.

As one of several Green Star rated buildings across the University of Melbourne campuses, the sustainability credentials of the new Conservatorium underlines the University’s commitment to carbon neutrality and offers a model for all buildings pursuing this aim.

Some of the key project goals and initiatives included:

- Net zero emissions from electricity by 2021 and total carbon neutrality by 2030.
- Fully electric – no gas connection.
- Highly energy efficient – LED lighting, a thermally efficient façade and specialist mechanical services.
- Powered by renewables – 25% of the electricity consumed is generated through on-site solar panels and the rest is supplied through the University’s power purchase agreements.
- Optimising acoustics and minimising crosstalk between rooms.

Given that musical performances are to occur inside the building, optimising acoustics was considered as important to the project as sustainability – and there was a rather unexpected alignment between the two.

In fact, aspects of the building that were chosen based on their environmentally friendly benefits, were also naturally well suited to the requirements of a building created for musicians. For example, timber was primarily used throughout because of its sustainability and biophilic credentials, but it also had acoustic benefits. Meanwhile the focus on air tightness to reduce the use of heating and cooling ensured control over temperature and humidity which was beneficial for the breathing patterns of musicians.

With ingenuity of this order employed throughout every step of the Conservatorium’s design and construction, it is no surprise that for everyone involved, the resulting carbon neutral ready building is music to their ears.

McAuley Community School gets a Green Star for learning

As the first 6 Star Green Star rated school in South Australia, the recently certified McAuley Community School is an example of how schools can provide positive learning spaces for students, whilst minimising their impact on the environment.

McAuley School surpassed its own expectations and went from a 5 star to a 6 Star Green Star rating. This was the result of several sustainability initiatives including the selection of low impact materials, incorporating natural ventilation into the air-conditioning system and onsite renewable energy generation, just to name a few.

Some of the key project goals and initiatives included:

- Strategic focus on materials, indoor environment quality and management.
- All products were responsibly sourced and subject to a sustainable supply chain assessment.
- 90% of construction and demolition waste was successfully diverted away from landfill and instead used to create recycled bitumen and concrete products.
- Strategic focus on air quality, acoustic comfort and lighting for its benefit on students’ health and wellbeing.
- Natural lighting and biophilic design elements; incorporation of plants and natural materials.
- Open plan design.
Melbourne Metro Tunnel Project goes for green

The Melbourne Metro Tunnel Project displays how Green Star has grown in time: from a tool used to rate buildings, to a holistic system that certifies projects of all shapes and sizes across Australia – from office buildings, to retail fitouts, airports, university campuses, public buildings and everything in-between.

Our city train stations are long-lasting pieces of infrastructure used around the clock, by much of the community. These stations – and the tunnels, tracks and passages that link them – quietly sit and serve under the bustle of city streets, playing a humble but fundamental role in keeping commuters and economies moving and connected for years to come.

Some of the key project goals and initiatives include:

- Targeting a 6 star Green Star – Railway Stations rating.
- To incorporate a trinocular design of three overlapping tunnels creating wide, open platforms with vaulted ceilings and sweeping arches, providing clear lines of sight and easy navigation for passengers.
- Pay homage to local culture, heritage and history; each station – Arden, Parkville, State Library, Town Hall and Anzac – draws on the local character of its location, featuring materials such as brick, glass, wood and bluestone.
- Placemaking and accessibility: new parks, open space and bicycle facilities at surface level.
- To contribute to industry skills development; CYP D&C has led the development of an accredited sustainability ‘Unit of Competency’ (UoC) that can be utilised by tertiary institutions nationally.
- Future proofing: waste reduction, carbon minimisation and pollution reduction.
- Strong focus on minimising the impact from resources and minimising the impact of development on soil conditions and hydrology.

When a project commits to sustainable outcomes that consider resilience, community and history, the benefits extend beyond the build and into the culture of its surroundings. Like its network of tunnels, tracks and passages that connect people and places, the Metro Tunnel Project is also weaving its way into the social fabric of the city itself, creating a positive legacy for generations to come.

“Local governments such as Wyndham City Council are using Green Star as it provides the best value quality assurance on sustainability issues. The Wunggurrwil Dhurrung Centre is a great example of how local governments can demonstrate leadership.”

Benita Charles
Technical Coordinator,
Green Building Council of Australia

Improving the Green Star experience

Wunggurrwil Dhurrung Centre, VIC. Wyndham City Council.
5 Star Green Star – Design & As Built.
Satisfaction with Green Star

We reached our highest ever satisfaction with Green Star this year, with 79% of respondents to our survey reporting that they were either satisfied or extremely satisfied with Green Star.

Last year we promised to improve on technical clarity, submission experience and digital experience. And we heard you when you asked us to improve our technical response time.

In addition, our response times this past year improved to continue delivering the service you expect:

**Technical response time**
- 80% at 5 days (compared to 80% at 10 days)

**Round 1 response time**
- 99% within 6 weeks (compared to 98% at 6 weeks)

**Round 2 response time**
- 95% within 4 weeks (compared to 94% at 4 weeks)

Updates to Green Star

Green Star – Design & As Built v1.3, Green Star – Interiors v1.3

In May 2019, the Australian Building Codes Board introduced much welcomed changes to Section J of the National Construction Code. To account for these changes, we introduced Green Star – Design & As Built v1.3 and Green Star – Interiors v1.3.

This update is mandatory for all projects subject to the 2019 Section J requirements. This includes existing registered Green Star projects.

Fitout Scope Guidance

In response to industry feedback, we created the guidance document ‘Fitout Scope: Guidance for Cold Shell, Warm Shell and Integrated Fitouts’ to address the range of fitout scope delivery.

Industrial Technical Guidance

Green Star – Design & As Built is a holistic rating tool for new buildings and major refurbishments. In response to industry feedback, we created guidance to assist its use on industrial buildings, such as warehousing.

Design Review Guidance

Based on what we’ve learned over the past six years of submissions, we’ve developed a short guidance document for project teams on how to submit for Design Review for Green Star – Design & As Built and Green Star – Interiors.

This Design Review Guidance provides answers to common questions asked by project teams.

To find out more head to Green Star Resources.

“Continuous improvement of our services is a key feature of ISO 9001 Quality Management System certification. We know the better your Green Star experience, the better the outcomes for the built environment.”

Sonia De Almada
Green Star Operations Manager,
Green Building Council Australia

“Continuing to improve the usability of Green Star is something we work on day to day. With Green Star Buildings, we will continue to ensure Green Star remains the rating tool of choice for the built environment”

Taryn Cornell
Green Star Technical Manager,
Green Building Council of Australia
Bringing Green Star to Industry

Educating the Industry

During 2020 we continued to build upon our new courses by releasing updated courses for Green Star Communities and Performance and converting all courses into a digital format. The digital format not only reflects the unique direction of the world in 2020 but also increases flexibility, allowing attendees to consume a portion of course content at times of their choice, and to be able to attend the live component of the course from any location in Australia, or the world.

Green Star for Contractors

Developed for those who work on a project on site – whether a contractor, subcontractor or part of the wider project team, increase your knowledge on how to ensure your data sheets and documentation is compliant. Explore the materials-related credits and how they relate to you, including specific materials content such as VOCs and PVC. Take away essential information to improve your processes, making them more efficient and effective.

560 participants have attended our Green Star Introduction Day in FY20.

394 participants have attended our Advanced days across all rating tools in FY20.

“We created Green Star for Contractors in response to industry feedback that there was an appetite for practical and detailed training. In FY20 alone we trained almost 1,000 people across our suite of training courses and this is a testament to the desire of sustainable built environment professionals to lead the charge and shape the cities and towns of our future”

Nicola Scudamore
Senior Manager - Events and Professional Development, Green Building Council of Australia

“As one of the first Green Star – Communities projects to go through recertification, Curtin shows their ongoing leadership and commitment to delivering healthier and more resilient campuses for current and future generations.”

Emma Bezzina
Senior Technical Coordinator, Green Building Council of Australia
Green Star’s new look

This year we revealed our new brands for Green Building Council of Australia and Green Star.

These new brands pay homage to the organisation’s leadership over the last 18 years, while taking on a more contemporary look to continue supporting our vision to build a more sustainable future.

With the continuing world leadership demonstrated by our members, and our own evolution to meet their ambitions, we are pleased that our new logos reflect the significant step change that Green Star, and GBCA are undergoing.

“Our new brand aims to communicate our evolution to industry and our stakeholders. It is a powerful brand that we hope you will use to communicate your leadership in the built environment”

Megan Towill
Senior Manager Marketing and Communications, Green Building Council of Australia

Our Future Focus

“The Northcote Aquatic and Recreation Centre proves that forward thinking aspirations can become a reality. The Darebin City Council’s net zero goal drove them to redesign an all electric pool to meet their renewably powered, zero carbon aspirations. It was the perfect building for our Green Star Buildings early access program.”

Margaux Lovrich
Technical Coordinator, Green Building Council of Australia
Continuing to deliver the future

In March 2018, we embarked on an ambitious journey to reshape the Green Star rating system and we are just getting started.

In addition to the release of Green Star Buildings, and revealing Green Star Homes, this past year we continued to work with you to shape the rest of our rating tools. While we aimed to have released more of the rating tools this previous year, the current situation has given us an opportunity to further sharpen our thinking and embed them into a new and powerful digital system.

Green Star Communities

Green Star Communities aims to continue the success of Green Star on a precinct scale. It aims to provide a clearer definition of a sustainable precinct, as well as set a pathway for net zero precincts to be delivered over the next decade.

From October to December 2019 we undertook consultation for the development of a new Green Star Communities rating tool, as part of the Future Focus program.

The consultation feedback elicited strong support for most of the changes proposed for the rating tool. But it also made us realise that we needed to do more work with industry in outlining a carbon positive trajectory for the precinct scale.

Green Star Performance

Green Star Performance builds on the success of our current tool focusing on building operations. It aims to meet the megatrends of the future, create a more approachable framework for communicating achievements, as well as set a pathway for net zero building operations to be delivered over the next decade.

This year, we released our Green Star Performance consultation paper, and began the process of engaging with industry.

Fitout Performance ratings

Green Star Performance will introduce for the first time a Fitout Performance rating for tenancies and other interior spaces. From large office tenancies to small retail fitouts, a Fitout Performance rating will allow you to benchmark and certify the operation of your space, whether you own the building or not, and seek to improve over time using the Green Star for Performance continuous improvement framework.

“Green Star Buildings was the first of our Future Focus rating tools. It shows how we are applying our vision to new buildings. I’m excited to continue working with industry to update the rest of our rating tools.”

Elham Monavari
Senior Manager Strategic Projects,
Green Building Council of Australia
The Green Star digital evolution

To support the work being undertaken in reshaping the Green Star rating system all new Green Star rating tools will be delivered digitally moving forward. This commences with Green Star Buildings in March 2021, with the remaining tools to follow as they are released to industry. In summary, the digital platform will provide the following benefits for Green Star users:

- Provide greater oversight for Green Star users in managing and submitting for Green Star ratings within one platform
- Greater access to Green Star data and reporting capabilities

We have partnered with Build-Apps and Microsoft to deliver Green Star on Microsoft’s Power Platform. By delivering Green Star on the Microsoft platform we gain access to a robust data framework that will improve our ability to analyse data, build business applications and automate processes for Green Star. It also provides future opportunities to leverage technologies such as AI and machine learning which are native on the Microsoft platform.

The digital release of Green Star Buildings in March 2021 is being viewed as a minimum viable product that will be developed overtime. Accompanying the release of the platform will be a roadmap outlining how we plan to evolve the platform to provide greater benefits to users and the industry.

“The digital release of Green Star Buildings is only the start of this evolution. We want to provide a more positive experience for our customers and leverage our data to be an asset for the broader industry.”

Stephen Thatcher
Head of Finance and Operations,
Green Building Council of Australia

Who we are

“Seeing brands that we know and love such as Woolworths leading the transformation of the sustainable built environment by adopting Green Star demonstrates the dedication of industry to lead towards a low carbon future.”

Anna Hendricks
Technical Coordinator,
Green Building Council of Australia
Nicole Sullivan, thank you

This year we bid farewell to Nicole Sullivan. Nicole led the day to day operations of Green Star as a Senior Manager for Green Star Solutions for four years. Her drive to provide industry with the best possible service led to us receiving our highest satisfaction score ever. This, and many other accomplishments have been instrumental in Green Star’s success. We wish her the best in her new role!

Jorge Chapa
Head of Market Transformation, Green Building Council of Australia

“Green Star’s reputation is built on the work of many, but few have been as instrumental as Nicole has over the past few years in ensuring it has the confidence and trust of industry. From everyone here at GBCA, we shall miss you here.”

Jorge Chapa
Head of Market Transformation, Green Building Council of Australia

Green Star, at your service

Our Market Transformation team is here to help you with all your Green Star needs. From registering a project to securing certification, from strategic input, to navigating the rating system, we are a short email or phone call away.

Sonia De Almada
Green Star Operations Manager

Taryn Cornell
Green Star Technical Manager

Devan Valenti
Senior Manager, Future Focus

Simon Ng
Technical Specialist

Nick Baker
Senior Technical Coordinator

Emma Bezzina
Senior Technical Coordinator

Deejan Ferroo
Technical Advisor

Deejaas Rousakis
Senior Technical Coordinator

Anna Hendricks
Technical Coordinator

Diveshen Gengiah
Technical Coordinator

Benita Charles
Technical Coordinator

Lyanna Ros
Senior Technical Coordinator

Margaux Lavrich
Technical Coordinator

Edwin Chu
Digital Coordinator

Tori Wouters
Team Admin

Green Star Solutions
Market Engagement
Strategic Projects

Built by industry

From top directors, to leading thinkers, our governance is unmatched making Green Star the leading rating tool for the built environment.

We work with industry to ensure the Green Star rating system continues to be Australia’s leading rating tool for the built environment. The Green Star Advisory Committee relies upon advice from the Technical Advisory Group and the Industry Advisory Group.

Green Star Advisory Committee

Tanya Cox – GBCA Director (Chair)
David Clark – Cundall
Andrew Cole – Lendlease
Simon Corbell – Victorian Renewable Energy Advocate
Dorte Ekelund - SMEC
Jennifer Saez – Commonwealth Bank
Chris Wheeler – KWM

Technical Advisory Group

David Clark – Cundall (Chair)
Sam Archer – NZGBC
Gerard Healey – University of Melbourne
Robyn Hyslop – Lendlease
Rob Johnson – InfraBuild
Greg Johnson – Stockland
Barbara Nebel – thinkstep-anz
Stefan Preuss – Office of the Victorian Architect
Leena Thomas – University of Technology Sydney

Industry Advisory Group

Andrew Cole – Lendlease (Chair)
Margot Black – Charter Hall
Alicia Maynard – ISPT
Rich Palmer – Integral Group
Sarah Reid – City of Melbourne
Greg Ryan – Landcorp
James Vesper – Goodman Group
David Waldren – Vicinity
Simon Wilson – RDT Pacific (representing NZGBC)
Our independent assessment panel

Our Certified Assessors are knowledgeable and have experience in the green building industry. Our independent assessment panel

Our certified assessors guarantee independence and robustness, and their work continues to be key to the transformation of the built environment.

Adrian Window
AECOM, QLD

Anne Kovachevich
Arup, QLD

Ben O’Callaghan
Ecomplish Sustainability, QLD

Chris van der Pol
Vision Design Planning, QLD

Conor Rawlins
Full Circle Design Services, WA

Damon Cuming
Wrap Engineering, VIC

Deborah Davidson
dsquared Consulting, SA

Gerard Healey
University of Melbourne, VIC

Graham Agar
Full Circle Design Services, WA

Hayley Koerbin
Organica Engineering, VIC

Inge Diamond
EcoS, NSW

John Moynihan
Ecolateral, QLD

Jonathan Dalton
Viridis, QLD

Karen Hovenga
Karen Hovenga Sustainability Consulting, VIC

Kim Featherston
NSW

Kristie Martin
Viridis, ACT

Lewis Hewton
Cundall, SA

Lisa Hinde
JLL, QLD

Nick Stokoe
Cundall, SA

Patrick Campbell
Hutchinson Builders, QLD

Paul Davy
dsquared Consulting, SA

Peta Earley
NDY, WA

Phil Donaldson
SustainSA, SA

Prasanna Suraweera
WGE, WA

Quentin Jackson
Aurecon, QLD

Rory Eames
Brevet, NSW

Tony Watson
Sustainable Future Group, NSW

Zofia Kuypers
J Milston Transport Consulting Pty Ltd

Our expert reference panels

Greenhouse Gas Emissions
- Adrian Window
- Alison Read
- Andrew Thai
- Chris Nunn
- David Barker
- David Clark
- Dennis Lee
- Esther Bailey
- Hannah Blossom
- Karla Fox - Reynolds
- Komath Yenneti
- Michelle Brownlie
- Patrick Campbell
- Paul Barratt
- Quentin Jackson
- Richard Jelbert
- Ruth Dawes

Life Cycle Assessment
- Choonghan Yeo
- Darryl Stuckey
- James Logie
- Jeff Vickers
- Jonas Bengtsson
- Judith Schinabeck
- Lewis Hewton
- Phye Ibbotson

Human Rights
- Christina Hughes
- Clare Gallagher
- James Arvanitakis
- Libby Stagg
- Nathan Robertson-Ball
- Nicole Thompson
- Rikki-Lea James
- Stephanie Gabiadou
- Zoe Koskinas

Resilience
- Clare Parry
- Greg Johnson
- Hannah Morton
- Jeremy Mansfield
- Jonathan Fox
- Rebecca Miller
- Robert Turk
- Steven McKellar
- Troy Powell
- Rachael McCluney
- Tom Davies
- Marc Gillespie
- Pip Harley

Place-Making
- Abigail Campion
- Ben O’Callaghan
- Dominique Hee
- Jeff Dobinson
- Katherine Featherstone
- Lucinda Hartley
- Michael Stokoe
- Paul Stoller
- Rory Martin
- Sharon Veale

Ecology & Biodiversity
- Austin O’Malley
- Ian Adams
- James Fitzsimons
- Jessica Holtz
- Joana Almeida
- Kristie Martin
- Sean Holmes
- Vicky Critchley

Building Developments and Contracts
- Claire Hashman
- Darren Teoh
- David Collins
- Deborah Davidson
- Graham Agar
- Lisa Hinde
- Luke Kewell
- Neil Caswell
- Nermin Zahrani
- Owen Grace
- Simone Delaney
- Russell Ross

Community Planning and Engagement
- Lauren Kajewski
- Jess Stewart
- Karen Woo
- Matthew Pike
- Nellie O’Keeffe
- Oliver Grimaldi
- Rod Brown
- Orlando Harrison
- Matthew Napper
- Samantha Pear
- Roger Swinburne
- Andrew Mackenzie

Health and Wellbeing
- Adam Garnys
- Alexander Kobler
- Ben Gibs
- Christina Candido
- Emma McMahon
- Haris Moraitis
- Jeremy Henry
- Lisa Manion
- Lucy Pullin
- Natalie Cahill
- Philippa Soccio
- Sue Sally
- Sean Kahn
- Jana Soderlund

Materials and Supply Chain
- Esther Bailey
- Rob Johnson
- Rad Vockler
- Kate Harris
- David Baggs
- Rob Kilgour
- Stephen Mitchell
- Sophi MacMillan

"Delivering Green Star Buildings without our incredible number of expert reference panels would have been impossible. Your dedication to ensuring its success ensured we delivered a ground-breaking rating tool that is fit to address the challenges of the next decade.”

Devan Valenti
Manager – Future Focus, Green Building Council of Australia
Number of people working in Green Star rated offices = Total area (GFA) of office space x 85% divided by 13

On the site of the former Royal Adelaide Hospital, Lot Fourteen is a world leading example of how adaptive reuse can transform existing buildings into a thriving Green Star rated mixed-use precinct for innovation, education, the arts, and affordable city living.

Nick Baker
Senior Technical Coordinator,
Green Building Council of Australia

Endnotes:

There are a number of statistics we report as part of our presentations, courses and media releases. The definitions and methods of calculation are outlined below.

Green Star certified projects: This is the total number of Green Star certifications Green Building Council of Australia has undertaken. Single projects may have multiple certifications, for example, an office built in 2008 might have a Green Star – Office Design, Green Star – Office As Built, Green Star – Office Interiors, Green Star – Performance and a Green Star – Performance re-certification. This would be counted as 5 certifications.

M² certified: This is the total amount of space that has a Green Star rating. Duplication between Design, As Built and Performance is removed, based on the project name. As an example, 1 Bligh Street has three certifications but the area would only be counted once. Interiors ratings are not generally included in the area certified. If they are included, they are reported separately, or the known duplication is removed where they are known to be in building with a base building rating (eg they have the same project name).

Office space: all space certified using Green Star – Office Design or Green Star – Office As Built (with duplication removed), plus office projects certified using Green Star – Design & As Built. Where a building is a mixed use development, the entire area is counted as office.

We have conducted research into the penetration of Green Star in the Australian office market. The research used data from the Australian Property Council’s Office Market Report and GBCA data on the area certified using Green Star rating tools, to calculate the percentage of net lettable area (NLA) that is Green Star certified across Australia. The data is as at October 2020. We would like to thank the Property Council of Australia for providing data from the Office Market Report.

In 2020 there were 440 commercial office buildings included with the Office Market data that also have at least one Green Star rating (Green Star Design and/or Green Star As Built, Green Star Performance). Where buildings have multiple ratings such as Commonwealth Bank Place in Sydney and 800 Collins Street in Melbourne, the area has only been counted once.

Performance ratings: These are the total number of Green Star – Performance ratings issued, including re-certifications (these have a new project number). If the area rated under Green Star – Performance is reported, it will exclude the duplication created with re-certification.

Office Workers: The estimates for the office workers uses a simple rule of thumb using NCC numbers and typical floor plan efficiencies. A typical commercial building has an efficiency between 80% and 90% (lettable area, vs. non-lettable area, that is, 10 to 20% of the building cannot be leased because of plant rooms, lifts, lobbies, etc.). We have chosen to be conservative and use the figure of 85%.

Designers use a ratio of 1 person per every 15 meters of lettable area for commercial buildings to get a rough sense. That figure gives you a sense of the spatial needs to do work (desks, chairs, etc.), but also includes bathrooms, hallways, kitchens, etc. In reality that figure is smaller, something like 1 per 11sqm. So to be fair we use 1 in 13. Testing this, as an example, for ANZ docklands with a GFA of 100,000 square meters, according to our calculations, we would have at least 6538 people working there. In fact, the final figures (shown in this website: http://www.lendlease.com/australia/projects/anz-centre) are 85,450 square meters of workspace area, and a population of at least 6500 employees.


12,618,700 size of the Australian workforce (as at 15/06/2020).
Shopping centres: The number of visitors to Green Star rated shopping centres is calculated based on the total area certified (including Green Star – Performance ratings, with duplication between Design & As Built removed), divided by the average number of shoppers per square metre per day, estimated to be 0.25 people. This second component is based on a conservative estimate. Chadstone receives 20 million visitors per year, = average 55,096 per day, area = 129,924 = 0.424 people per m2 per day. Chermside receives 16 million visitors per year, = average 44,195 per day, area = 14,321 = 0.306 people per m2 per day. Taking a conservative view (as not all shopping centres are as busy as these two) we use an estimate of 0.25 shoppers per m2 per day. This is based on 362 shopping days per year, as Christmas Day, Anzac day and Good Friday are out.

Apartment dwellers: This was initially calculated using the actual number of apartments and homes certified, with an assumption of 2.5 people per apartment. A typical apartment dwelling is the two bedroom unit. The typical two bedroom unit is around 70sqm. Efficiency of apartment buildings can be really high, around 95%. 888 Collins is 40,657sqm GFA, using our formula, we find we’d have 551 apartments. This article states that they are actually building 578.

Formula for number of workers:

Schools: The figures for schools are taken from the estimated occupancy of each school (taken manually from the Green Star submission), as they are too varied to estimate. As at June 2018 16,635 students learn in Green Star certified schools. This includes Gold Creek (1054) and Wynnum State School (750) that have their environment centres rated.

Hospitals: Google searches on the number of patients seen each year. Includes inpatients, emergency and outpatients. Hospitals only – Health clinics and super centres are excluded.

Families in communities: For Green Star – Communities we take the number of people who will be living there once the community is completed, based on the Green Star project submission. Where there is a number of homes rather than a number of people, this is multiplied by 2.5 to calculate the estimated population.

Penetration of Green Star – Office: This is calculated by matching the Green Star rated office projects to the Australian Property Council’s Office Market data to calculate the percentage of office space in each city that has a Green Star rating (Design, As Built or Performance, with duplication removed). (Updated annually in September)

Penetration of Green Star – Retail: This is calculated by dividing the PCA’s estimate of total retail space by the total area of Green Star rated retail centres (Design, As Built or Performance, with duplication removed).

Penetration of Green Star – Industrial: This is calculated by dividing the industry estimates of total industrial space by the total area of Green Star rated industrial centres (Design, As Built or Performance, with duplication removed).

Cost of Green Star: The average cost of Green Star as percentage of the project budget is calculated using data from the Financial Transparency Innovation Challenge. This is updated annually.

Emissions Reductions in Green Star Rated Buildings: Greenhouse gas emission reductions are based on information provided in the GHG Emissions Calculators for Green Star Design, Green Star As Built and Green Star Design & As Built certified projects. As at 30 June 2020 there were 770 buildings in the sample. Comparisons are to the minimum requirements of the National Construction Code.

Calculations for the conversion of Green Star GHG savings into visual representations are based on the following assumptions: Passenger vehicles being driven for one year emitting an average of 4.67 tonnes of greenhouse gases; Tree seedlings grown for 10 years equalling 0.039 tonnes of GHG emissions; and Home energy use for one year equalling 9.26 tonnes GHG emissions per house. These are the same calculations we make when tracking carbon as part of the Net Zero Global Commitment. https://www.worldgbc.org/thecommitment#—text=The%20Net%20Zero%20Carbon%20Buildings%20Commitment%20the%20Commitment%20challenges%20business%20to%20operational%20emissions%20by%202050

Number of people living in Green Star rated homes = Total area (GFA) of residential space x 95% divided by 70 x 2.5
We’re here to help

If you’d like to get more involved with Green Building Council of Australia, need some advice on Green Star or have an idea you’d like to share, contact our friendly team.

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Connect with us:

/gbcaus
@gbcaus
gbcaus

Green Building Council Australia