

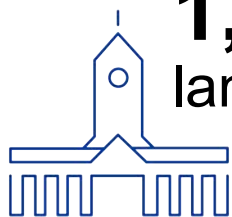
Case Study: Brisbane City Council goes carbon neutral



Dedicated to a better Brisbane

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Australia's largest carbon neutral organisation



1,342km²
land area



annual budget
\$2.8 billion



population **1.2 million**



6,679ha
urban parks

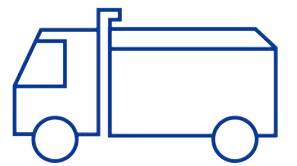


1,223 buses

\$23.1 billion
assets managed

>328,000t

domestic waste collected



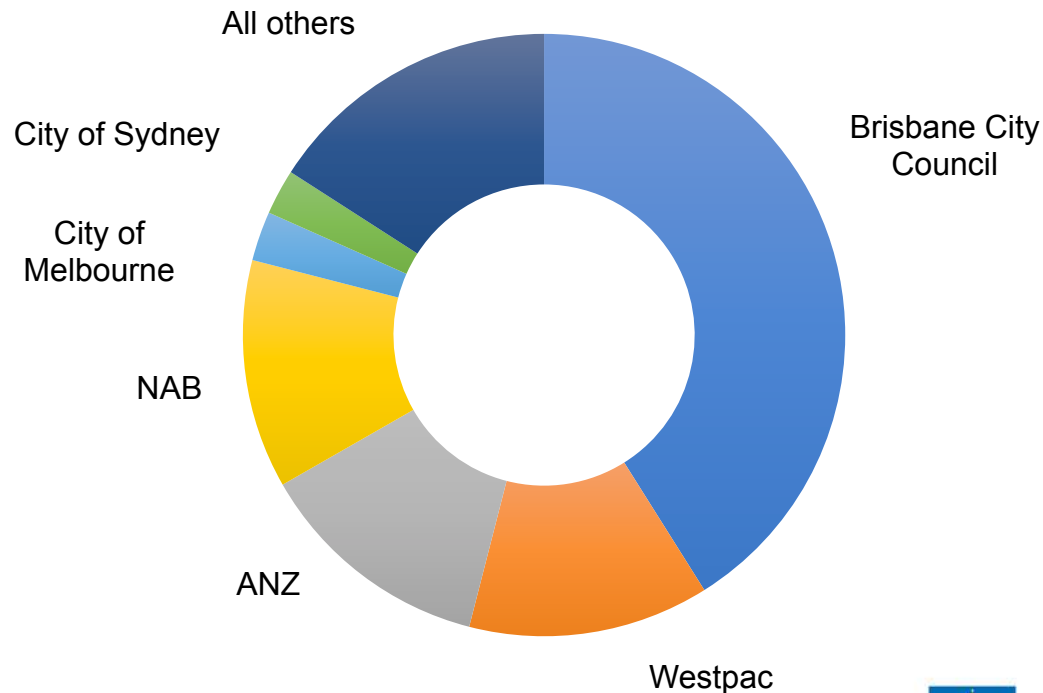
Keeping Brisbane clean,
green and sustainable



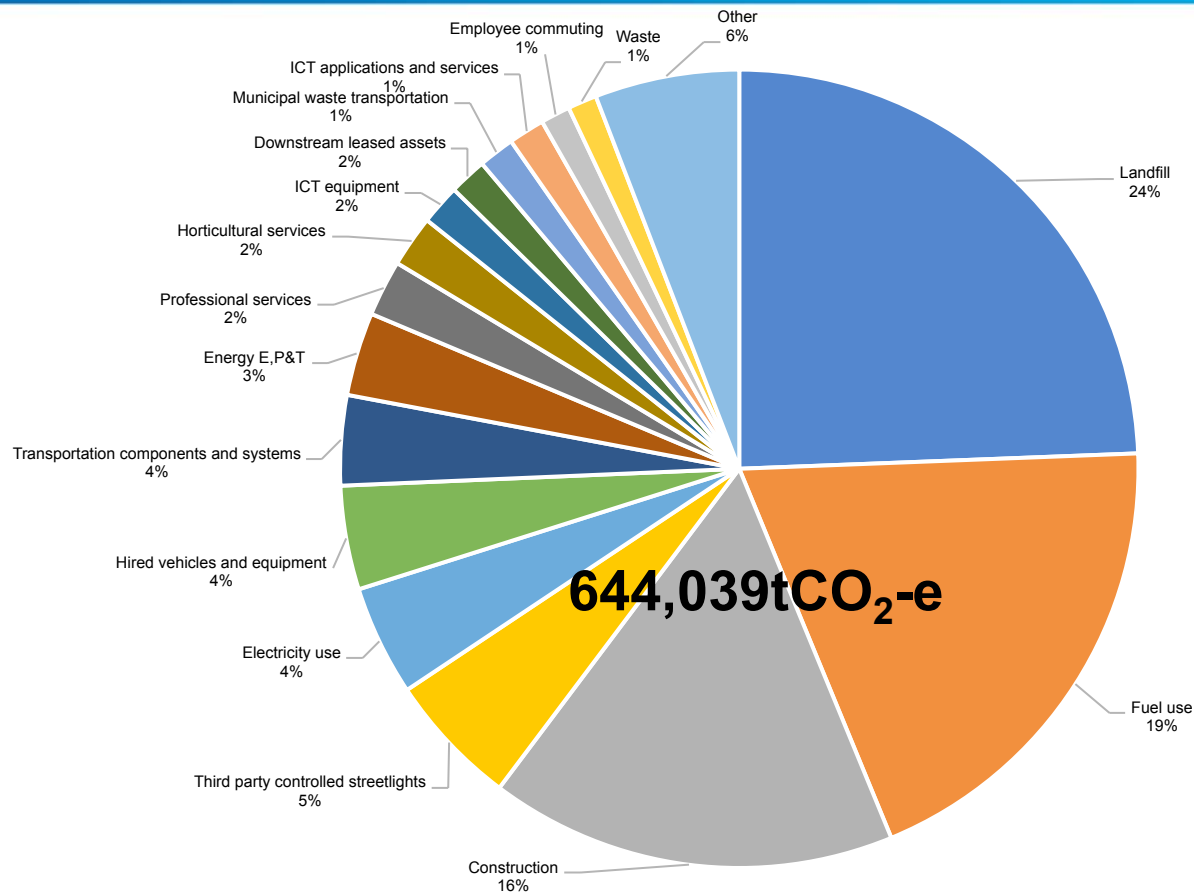
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How Council compares with others

- Three times larger than the next largest carbon neutral certified organisations
- >15 times larger than the next largest local government authorities
- Two and a half times the footprints of all other certified organisations



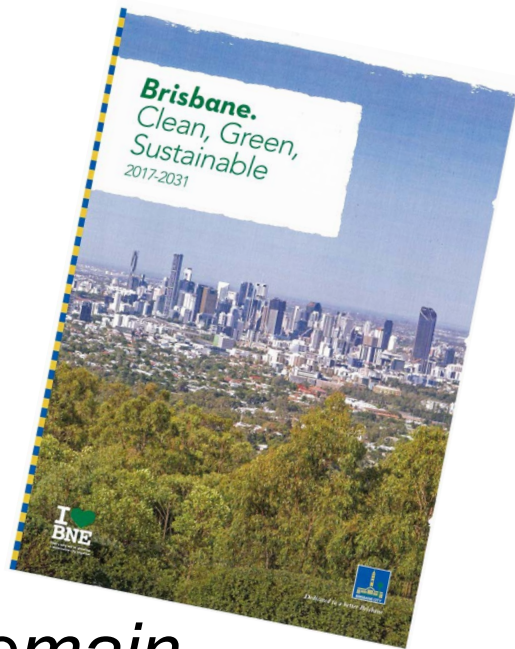
Our carbon footprint (2016-17)



Clear vision and strategy



“By 2031, Brisbane City Council will have achieved carbon neutral status”

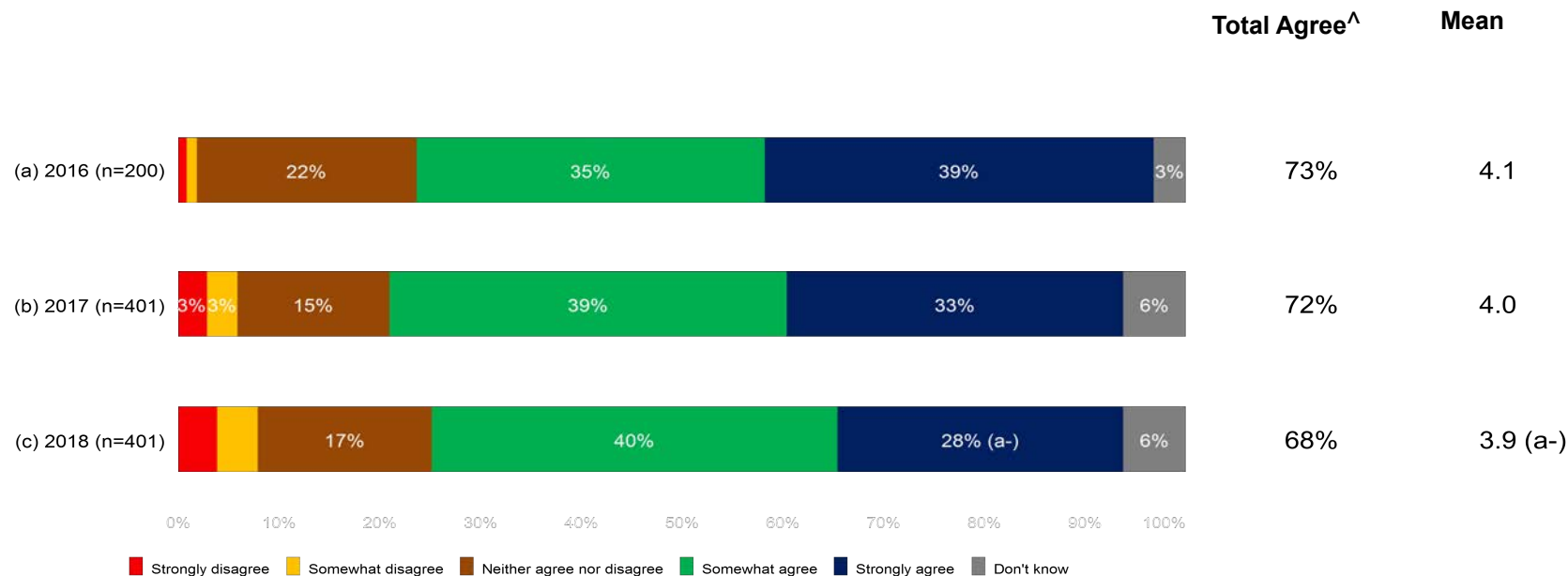


“Council will remain a carbon neutral organisation”



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Strong community support



CC1. Please rate your level of agreement that Council should become a carbon neutral organisation using a scale of strongly disagree to strongly agree. Being carbon neutral means that there are to be no net emissions from Council business operations, achieved by investing in energy efficiency projects, using renewable energy, and purchasing carbon offsets.

Scale of 1 (lowest) to 5 (highest) used

Base: Total Sample

[^]Total agree represents those who gave a rating of 4 or 5 on a scale from 1 (lowest) to 5 (highest)



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Incremental approach

2008:

Started reporting on greenhouse gas emissions (scope 1 and 2)

Achieved 50% renewable energy

Began offsetting emissions from fuel use and business travel



2003:

Purchased renewable energy to power City Hall

2010-2015:

Achieved 100% renewable energy



2016:

Measured and offset all greenhouse gas emissions (scope 1, 2 and 3)

Self-declared carbon neutral



2018:

Certified carbon neutral



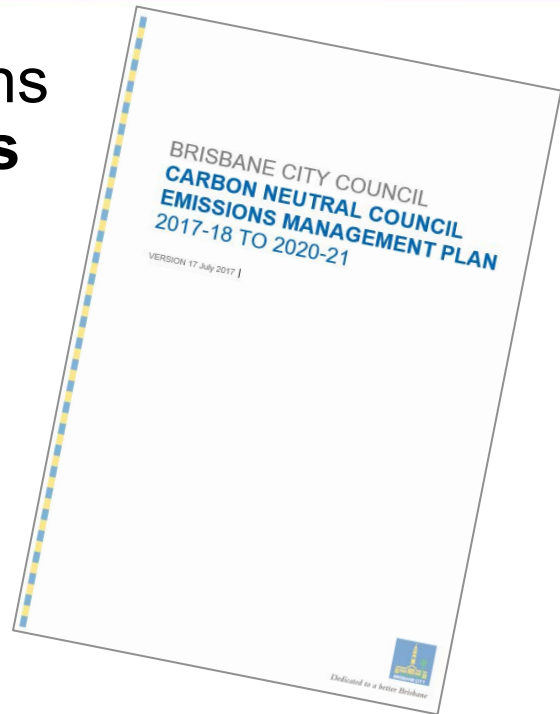
The challenge of measurement

- Emissions measured in accordance with national and international standards
- Organisational boundary defined using operational control approach
- Scope 3 emissions sources identified through engagement with operational areas and expenditure based materiality assessment
- All sources >1% of total emissions are quantified, exclusions limited to >5%



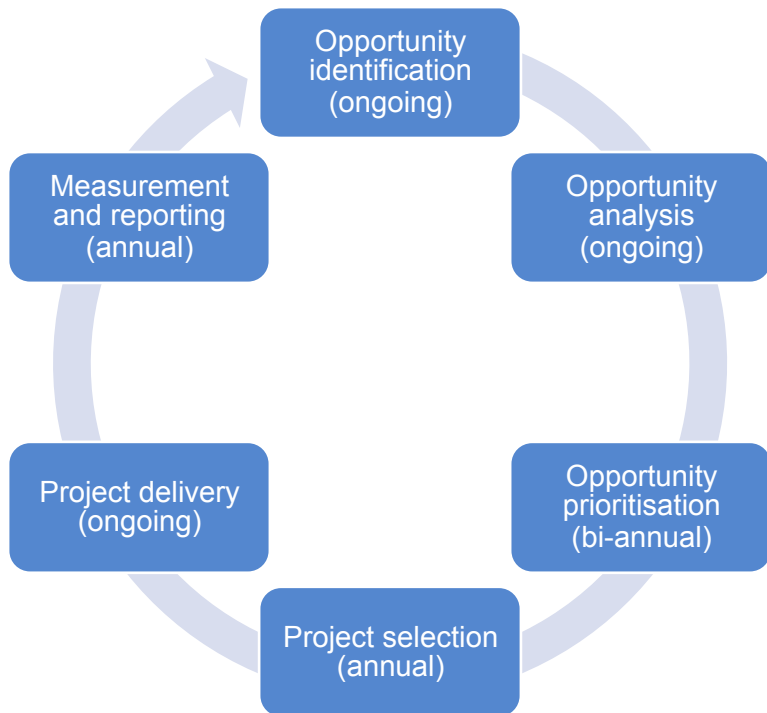
Emissions reduction strategy

1. Improve energy efficiency and emissions profile of **existing assets and services**
2. Ensure design and delivery of **new assets and services** is informed by an understanding of energy consumption and emissions and incorporates measures to improve performance
3. Encourage changes in **employee behaviour**
4. Develop **organisational capacity**



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Continuous improvement program



- >130 projects identified
- Projects prioritised based on cost, emissions reduction potential and ability to implement
- \$1.5 million invested annually

Project achievements

- More than 25,000 streetlights retrofitted with energy efficient lamps
- LED lighting upgrades at buildings, bus depots, the Story Bridge, and in traffic signals and public lighting
- 660kW of solar PV systems installed on Council buildings and facilities
- Smart transmission technology in new buses



Changing the way we operate

- Updates to corporate policies and standards
- Reviewing and incorporating emissions reduction measures across the capital works program
- Reviewing and improving budget and project documentation and operating procedures
- Internal communication and behaviour change



Engaging with our supply chains

- Identifying emissions intensive assets, goods and services
- Working with contractors, lessees and landlords to obtain activity data and explore emissions reduction measures
- New tender processes and lease renewals to include provisions for data reporting and improved performance



Supporting sustainable development

- More than 1.6 million offsets purchased since 2008
- Purchased renewable energy and carbon offsets must meet agreed criteria, including NCOS eligibility
- Preference to buy a portion of offsets domestically and from projects that offer wider co-benefits



Verified Carbon Standard



SOCIALCARBON®



Q clean green Brisbane

