

ecoBiz – Saving Money Through Sustainability

Tim O'Dowd (ecoBiz Program Manager)



SAVING MONEY THROUGH SUSTAINABILITY

Tim O'Dowd | ecoBiz Program Manager



1. What is ecoBiz?

2. Trends observed in the ecoBiz program

3. Saving money through sustainability



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WHAT IS ECOBIZ?





Queensland
Government

ecoBiz is a government-funded initiative that helps businesses cut costs associated with their energy, water and waste bills.

FREE !



The Chamber of Commerce and Industry Queensland (CCIQ) has been delivering the program for more than 8 years.



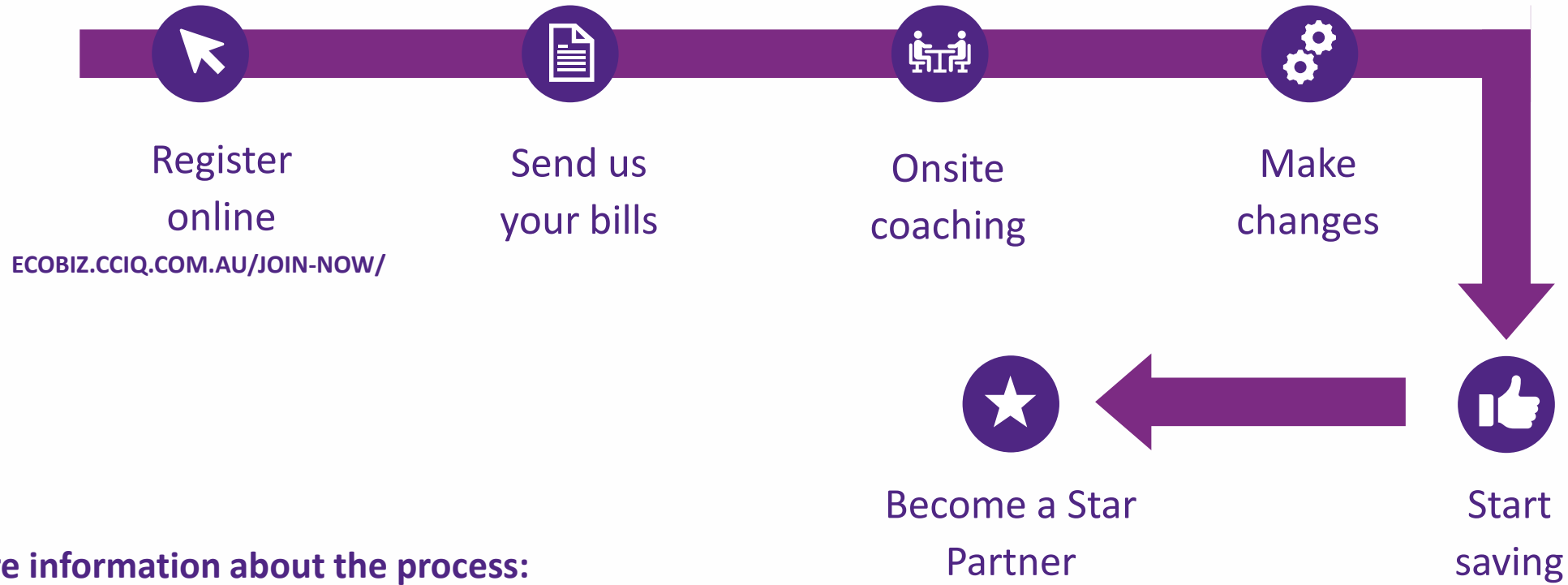


We've worked with
over 1,000 businesses
right across Queensland.

Engaged businesses are,
on average, saving
**19% off their energy,
water and waste costs.**



HOW DOES IT WORK?



More information about the process:
ECOBIZ.CCIQ.COM.AU/HOW-IT-WORKS/





CCIQ **ecoBiz** Queensland

COACHING REPORT

Penny Prasad
April 2021

Data Summary

Energy Usage (GJ)

The site consumes around 489,000 kWh per year, with a peak demand ranging between 40 and 74kW. The graph below shows the split between peak and off-peak (assumed 60% power is peak power), and actual peak demand.



Process Flow

Inputs (resources consumed)	Process (large equipment)	Outputs (product, service or waste)
Electricity Monthly Cost around \$7,000 - \$11,000 with approximately 400kWh/month consumption and 40 - 74kW in demand per month.	Retail • Cold Rooms and Freezers • Lighting, workstations, printers, small kitchenette facilities, air conditioning	Approximately 0.8 kgCO ₂ e for each kWh of electricity consumption (based on Queensland grid supplied energy) About 24 tCO ₂ e per month based on 400kWh/month of electricity consumption
Water	Food prep and hand washing Toilet facilities only (sinks and handbasins)	Wastewater to sewer
Materials	Food Preparation ingredients	

Gaps / Challenges

Item	Resource	Description
Comingled recycling	Waste	No general comingled recycling available on site currently.
Data collection	All	Limited data available to track historic use or changes relating to initiatives undertaken.

Recommendations

Metric	Recommendation	Description	Cost
Energy	Monitor and review billing data for better understanding of the cost of energy	Energy baseline and tracking: Super Green Solutions have undertaken extensive energy efficiency initiatives and reduced energy use significantly. This means that ensuring further improvements will rely even more heavily on having reliable historical data to base decisions and actions on. Establishing a baseline of energy consumption and establishing trends over time will be key.	Low
Waste	Conduct a waste audit to help identify further improvements	A waste audit is important in understanding your waste stream. You will discover what types and quantities of waste (paper, plastic, food etc.) you produce within a given timeframe. You will also record how much waste is recycled vs. what is sent to landfill. Auditing also measures how much waste is recycled vs. thrown out. This can help you to set recycling and reduction goals. Most of the waste that is sent to landfill is un-needed, divertible or recyclable, therefore many businesses are probably paying too much for removal. A waste audit answers the question, "is this recyclable, compostable, or reusable?" This will also allow you to create a baseline to reference your progress from one waste audit to the next and target your waste reduction efforts	Low
Waste	Behavior Change	Developing a waste management policy and procedures , with support to staff to understand and implement them will help reduce waste going to landfill.	Low



FREE visual inspection of a business's on-site waste generation.





JANE GAFFEL
(Brisbane)



PENNY PRASAD
(Brisbane)



ROSS ANDERSON
(Maryborough)



FIONA SLEIGHT
(Cairns)



EDWARD FOORD
(Gold Coast/Ipswich/Toowoomba)



ANDREW CHAMBERLIN
(Brisbane)



NICOLE PRICE
(Brisbane)



MICHAEL DAVIS
(Sunshine Coast)



ANDREW HANNAY
(Townsville)





Lack of time or expertise to devote to special projects



Access free expert coaching advice through ecoBiz

Lack of money



Explore opportunities that are either no, or low-cost to implement – tailored to the business and site

Operating out of a leased premises





- Queensland businesses
- Community associations
- Sporting clubs
- Not-for-profits

ONLINE RESOURCES

TOOLS TO DO IT YOURSELF

With ecoBiz, there's action you can take immediately and independently to cut bills. The resources below will assist in you taking the first steps towards saving on your bills and reducing your resource use.

Anyone is free to use these resources, but by also joining the program you'll be able to access support from the ecoBiz team, and have your savings recognised, celebrated and promoted.

WEBINARS AND FACT SHEETS

Start off by learning some tips and tricks with ecoBiz through some of our webinars and fact sheets.

[CLICK HERE](#)

SITE CHECKLIST

The check lists are another important part of the saving process. Inspect your business now and look for simple changes or checks that can be made to get started.

[DOWNLOAD](#)

WORKPLACE RESOURCES

Implement these resources such as posters and workplace tips immediately to get started in making the small and meaningful changes that will make your business more sustainable.

[READ MORE](#)



Save money by improving efficiencies



Become a more resilient organisation

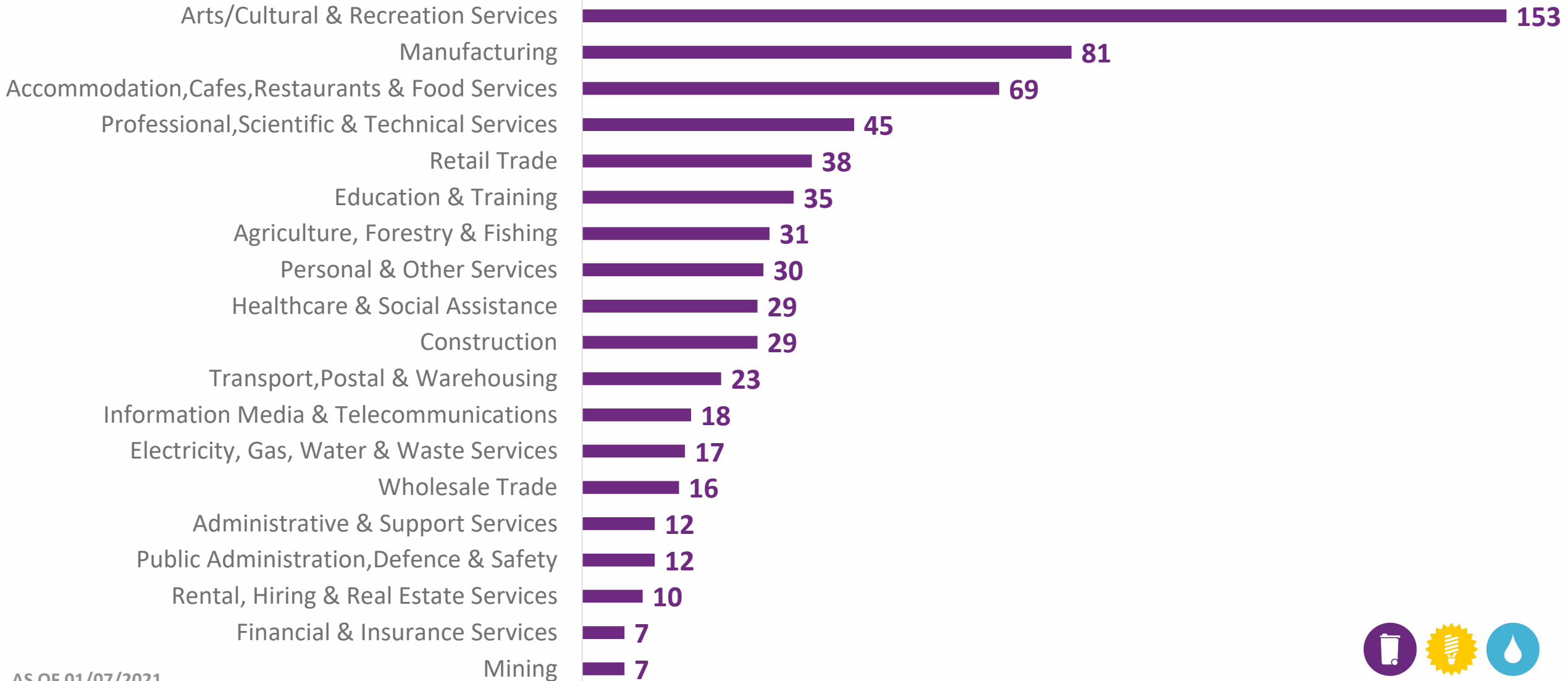


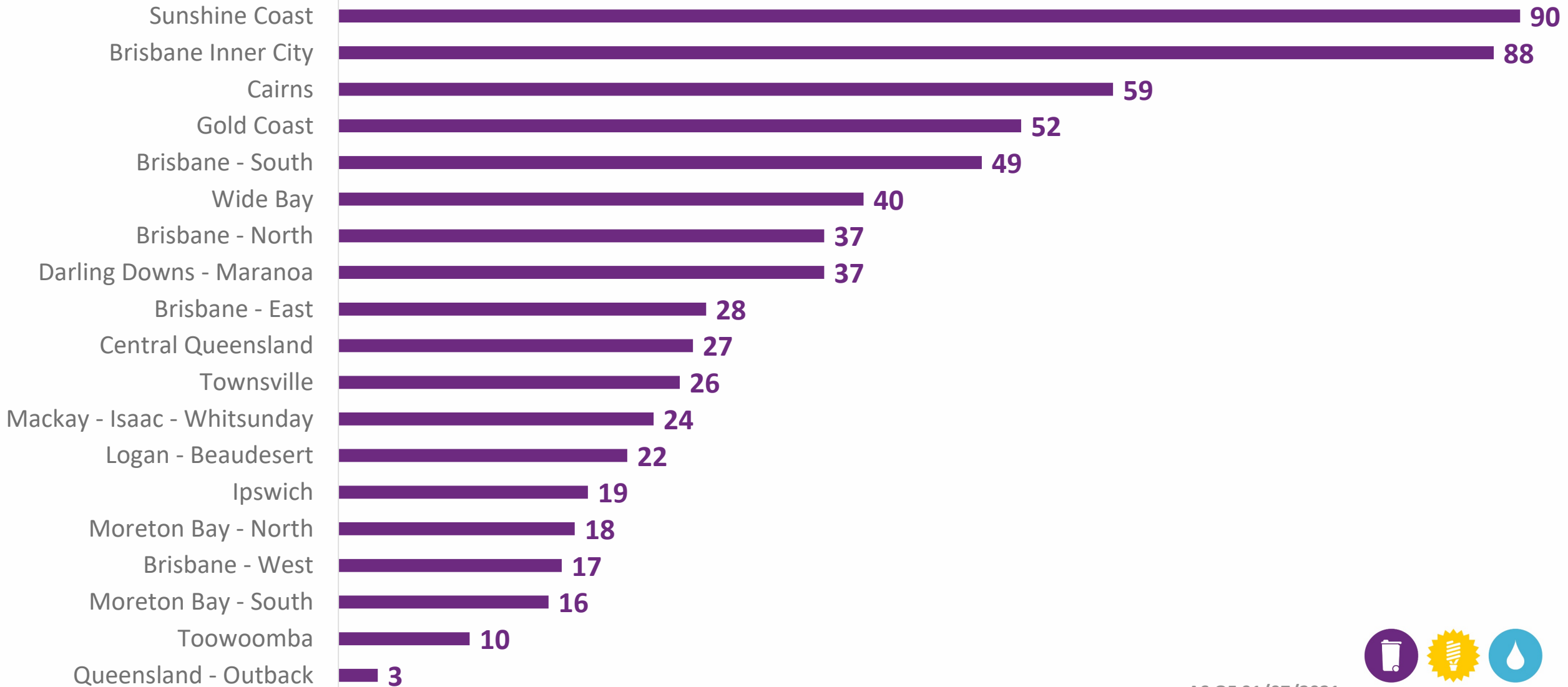
Align your operation with community expectations



TRENDS OBSERVED IN THE ECOBIZ PROGRAM

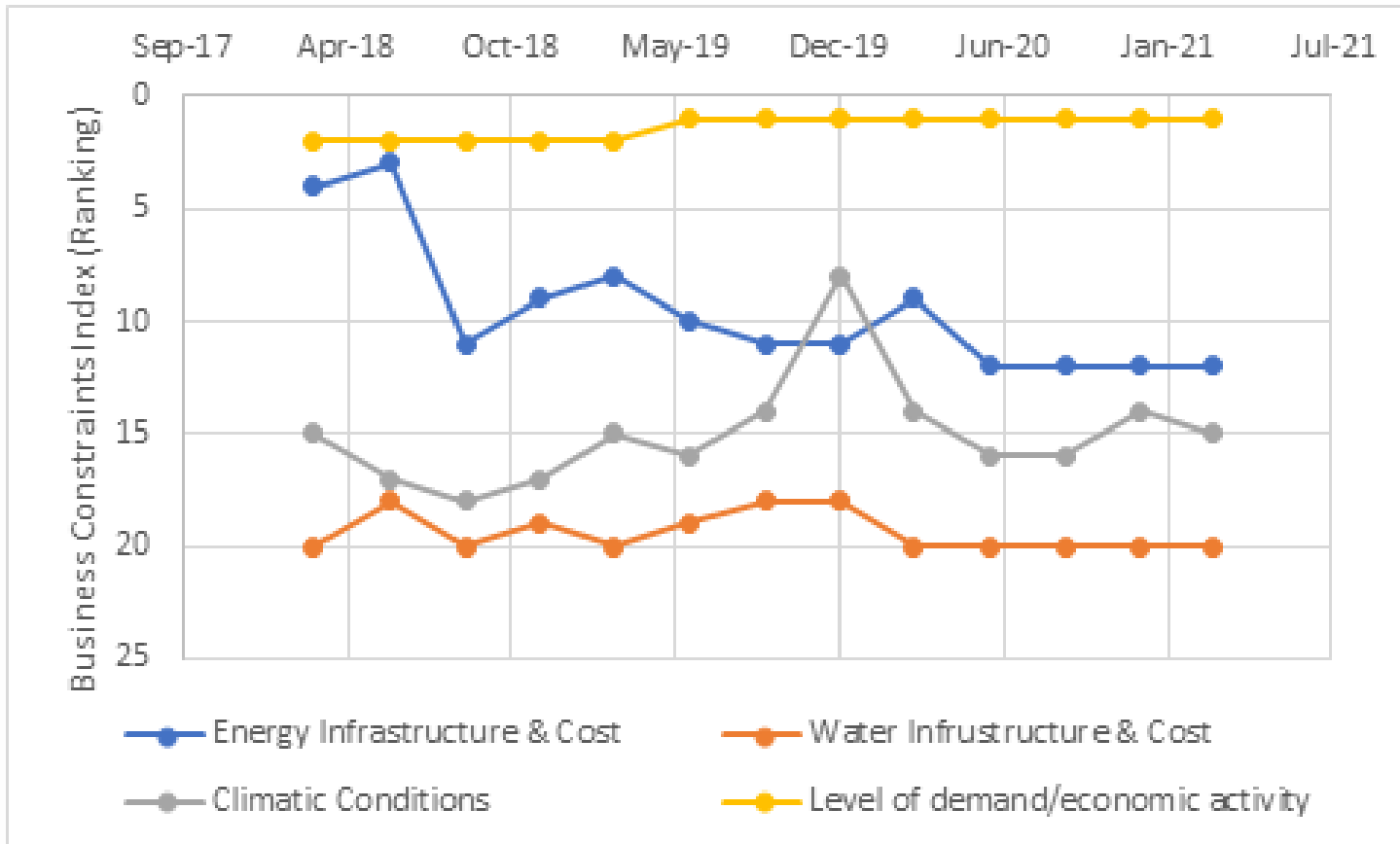
ECOBIZ





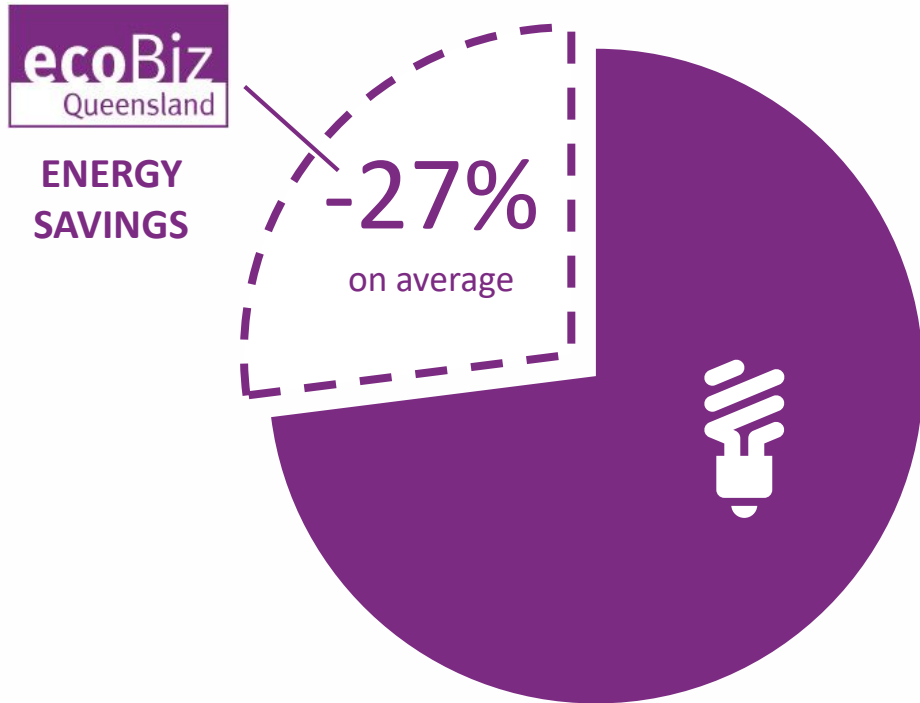


Prior to COVID-19, utility costs consistently ranked as a top constraint on businesses



In 2019, the Queensland government implemented the Waste Levy: \$75 - \$160/ tonne according to waste classification.





Energy intensity of ecoBiz Star
Partners (2019-20)

Businesses pursuing energy efficiency through their participation in the ecoBiz program have reduced their energy intensity by 27%.

Some energy-saving actions involve an initial investment, while others cost nothing but require a cultural shift from employees.





ecoBiz Star Partners reduced their waste costs by 23%, on average, in 2019-2020.



Average waste cost intensity of ecoBiz Star Partners (2019-2020)





ACCOMMODATION

OFFICE SPACES

HOSPITALITY

CONSTRUCTION

MANUFACTURING

WAREHOUSING

POOLS

SPORTING FACILITIES





Savings opportunities

Major trends

Most common recommendations

Case studies





Over a two-year period:



-37%



-45%

Key initiatives to reduce energy use:

- They have installed an 8-kW solar PV system on the clubhouse roof.
- They upgraded their main field and half of their second field with LED lighting. Lighting is controlled and monitored by an app to ensure it is only used when needed.
- Lighting in the clubhouse is energy-efficient too, and there is a timer for external floodlights.
- They very rarely use air conditioning in the clubhouse as they open doors and windows to encourage natural ventilation.
- Only cold water is available in the hand basins in the change rooms.





Key initiatives to reduce waste:

- A club member recycles all waste metals and metal appliances (e.g. goal posts, signs, fence posts).
- Cooking oil is recycled, and leftover food is distributed to players.
- They separate cans and plastic bottles to recycle them through Containers for Change.
- Player uniforms are collected at the end of the season and reused.

Key initiatives to reduce water:

- They have six 20,000L tanks to collect rainwater from the clubhouse roof and supplement water used for irrigation and toilet in the change room.
- They only irrigate at night when fields receive less than 40mm of rain. A sensor turns off the irrigation system if it rains.
- They have installed very low water pressure taps for the hand basins.





Since 2017:



-59%



-65%

Key initiatives to reduce waste:

The introduction of the Queensland waste levy created an opportunity for Hockey Queensland to save money by limiting their waste.

In addition to their recycling bin for paper and cardboard packaging, they introduced 8 bins for members and the public to recycle cans and bottles for the Container for Change scheme. It was estimated that this initiative alone reduced the amount of waste Hockey Queensland sent to landfill by 30%.





Key initiatives to reduce energy use:

Hockey Queensland made extensive and ongoing investment in energy efficiency measures to reduce the amount of energy used per operating hours:

- Using Brisbane City Council (BCC) Lord Mayors' Community Grant, they upgraded all office, gate entries, courtyard and grandstand lighting to LED and installed energy-efficient lighting on both fields.
- Their new changing rooms and amenities also use LED lighting.
- They changed their hot water system in change rooms from electric to instantaneous gas so that water is only heated when the tap is turned on or when someone walks in for showers.
- Electric air vents are used in the changerooms rather than air conditioning. The vents are automatically switched on and off with the lights.



HOW CAN I SAVE MONEY THROUGH SUSTAINABILITY?

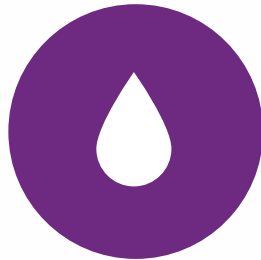
SAVE



STEPS TO IMPROVE SUSTAINABILITY & SAVE MONEY AT YOUR BUSINESS



**SAVE
ENERGY**



**SAVE
WATER**



**REDUCE
WASTE**



**CHANGE
BEHAVIOURS**

WHAT CAN YOU DO?



SAVE ENERGY



Adjust air conditioning settings

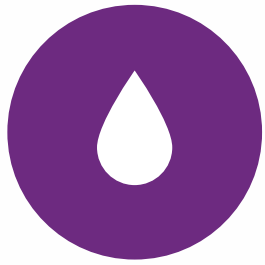


Investigate solar or alternative energy providers to secure a better offer



Replace lighting and appliances with energy-efficient options

WHAT CAN YOU DO?



**SAVE
WATER**



Install water
efficient fixtures
(taps, toilets and
fixtures)



Monitor for water
leaks

WHAT CAN YOU DO?



REDUCE WASTE



Collect and
recycle
electronic
waste



Recycle soft
plastics



Work with
your suppliers
to reduce
packaging





CHANGE BEHAVIOURS

Work to encourage productive workplace behaviours and attitudes concerning energy and water consumption, and waste reduction



**STOP WASTING.
START SAVING.**

FREE

REGISTER NOW

CCIQ **ecoBiz**
Queensland



ecobiz.cciq.com.au/join-now

Register now to get
your free, 2-hour
coaching session with
an experienced
sustainability coach!





THANK YOU

Contact us: ecobiz@cciq.com.au

REGISTER

ecobiz.cciq.com.au



Thank you for listening.

Please remember to complete your
feedback form.