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CCIQ ecoBiz Star Partnership Assessment

CHAMBER OF COMMERCE AND INDUSTRY
QUEENSLAND

Prepared by: Jason Lange
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CCIQ Powering
business
potential

ecoBiz Star Partnership Assessment

Company or Site details

Company	Reef Ecologic
Site address	14 Cleveland Terrace, Townsville
Name	Adam Smith
Position	Managing Director
Phone numbers	0418726584
Email address	adam.smith@reefecologic.org
Previous involvement with ecoBiz	Historic support without active involvement – first session March 2019
Partner Level/Star rating awarded	Energy and Waste
Time period measured	1-year energy, 2-years water
Type of product or service	Environment consultant providing strategic advice, research and training in Australia and internationally
Number of staff	1-5
Customers	Government, industry (tourism, fisheries), conservation organisations

Proposed star partnership to be awarded:

Energy and Waste

What % reduction in resource or waste has the company achieved?

This client is truly exhibiting best practice office energy and water use already. Upon detailed assessment of energy and waste bills historically when combined with a lengthy site visit with discussion revealed a world leading business in this space. Key metrics/outcomes:

- *The business averages a daily energy use of only **5kw** since installing a battery approximately 10 months ago. This 5kw/day average is approximately 25% of a typical Townsville household and approximately 10% of a typical Townsville business*
- *The business has invested in 13.5kw of battery storage to increase its disaster resiliency as well as its business resilience*
- *The businesses very model of occupancy (fluid office, hot desk arrangements and its deliberate proximity to primary clients – for walking/biking) demonstrates best practise sustainable business (hard to capture avoided benefits in energy, water and waste – they would be profound)*
- *The business actively promotes walking and biking to meetings, hosting sustainability workshops, locally grown food (including growing on site), contributes 2% of business profits back to sustainability programs and lives and breathes sustainable business*
- *The business also looks deeply into the sustainability of its protein supply – both at work, during events and as a home*
- *The business is almost entirely paperless (stone paper when paper is required)*
- *The business reuses organics in the edible gardens, compost bin and seasonal worm farm*
- *Business comprehensively recycles however prefers to avoid waste generation proactively*
- *The businesses waste is so low that it does not require a commercial waste removal service. Business waste is able to be comfortably integrated into the existing residential removal*

framework

Production Unit			
Service Unit	Service Label	Year 1	Year 2
[Number]	[Classification]		

Outcomes					
	Consumption Year 1	Consumption Year 2	Cost Year 1	Cost Year 2	% of savings - Per production unit
Energy (GJ)					
Water (kL)					
Waste (Tonnes)					

What initiatives were undertaken to achieve this reduction?

- White roof
- Tropical office design
- Ventilation and passive airflow promotion
- Solar PV
- Tesla Battery – business resilience also
- Shading western wall
- Travel to meeting using sustainable transport (chiefly bike or walk)
- Reinvests profits into sustainability initiatives
- Low water use edible gardens
- Low water use fixtures and strong behavioural focus on conservation in offices
- Removal of water intensive lawn
- Active recruitment and collaboration with likeminded sustainability professionals
- Exploring harvesting of marine weeds and beneficial reuse
- Purchase and use of stone paper
- Drip irrigation
- Hand watering
- Purchase of sustainable food for office and workshops
- Actively on advisory boards for sustainability

What was the driver for making these improvements?

1. It's the right thing to do
2. To lead the way and demonstrated best practice to peers
3. To advocate through action
4. To save on operational costs

What was the \$ investment in the initiatives?

- Solar with Tesla Powerwall 2, \$19500
- Edible gardens – est. \$200 using mostly upcycled materials
- Shading of western wall – no cost
- Behavioural modifications – no cost
- White roof – no cost at point of build
- Composting - \$150
- Worm farming - \$90

Was a loan or grant obtained to make these improvements?

Star partnership to be awarded:

Yes – energy and waste

[If applicable] Further steps required for star partnership

Water star partnership requires further enquiry into usage patterns and contributing factors. I would think a reasonable target would be for the business to sign up for the TCC water watchers water use plan and aim for <400kL per year

Date for next review of star partnership

4/2020

Feedback from ecoBiz participant