

Café Troppo – Thriving sustainable café in inner-city Adelaide

Café Troppo sits overlooking Ipparityi/Whitmore Square, providing a sustainable and ethical café service centred around community and the environment. In their 10 years since opening, this popular eating spot has remained committed to their zero-waste goals, continually refining the café's operating model to reduce their footprint as much as possible. Café Troppo diverts approximately 450L organic waste from landfill every week and chooses to use produce strictly from within SA to minimise food miles. Café Troppo wear their ideals 'on their sleeves', hosting community events to build shared knowledge and collaboration on waste problems in the industry.

dsquared – beyond Carbon Neutral

dsquared is an Environmentally Sustainable Design (ESD) and sustainability consultancy, providing innovative and independent consultancy services for the built environment. Adelaide Carbon Neutral Ambassadors, dsquared consulting has focussed on measurable change in their business, including a 15% reduction in total emissions; diverting 90% of office waste from landfill, with less than one 240L wheelie bin of waste generated for the year; shifting to a carbon neutral certified electricity retailer; maintaining a 6 Star NABERS Energy rating; and implementing an accredited ISO 14001 Environmental Management System to track and reduce their environmental impact. Through their holistic advice, dsquared supports government and business to achieve carbon neutrality, sharing knowledge and lessons learned across sectors, with regular presentations and advice through events, client and community presentations, and workshops.

Evoegy Consulting – Trees bought for days worked

Evoegy Consulting is a renewable energy consultancy that supports owners, developers and investors across the energy asset lifecycle from idea creation to decommissioning and disposal. They provide a range of technical and commercial services to support strategic decision-making on financial transactions for both buyers and sellers of energy assets. In their efforts to go beyond carbon neutral, Evoegy has donated 1,233 native trees as of 31 August 2021 through Carbon Positive Australia's tree planting initiative. These trees offset up to 4.6 tonnes of CO₂e beyond carbon neutral for Evoegy.

Foodprint Experience – Food that makes customers feel good while doing good

The Foodprint Experience Café is a social enterprise café and catering business based in The Joinery on Franklin St. The Foodprint Experience Café is committed to discovering new and innovative solutions to reduce negative impacts on the environment. Their thoughtful use of energy and resources includes diverting 82% of café waste (1.5 tonnes of compostable waste) from landfill, and sourcing produce from local suppliers based an average no further than 42km away from the site. Solar panels have been installed and 100% of the supplied electricity is renewable. The café has also partnered with a PhD candidate to explore new home composting methods, and consistently provides waste education to customers. The Foodprint Experience Café also builds a more inclusive society; every meal or coffee purchased provides employment opportunities to vulnerable and disadvantaged people in the community.

GPA Engineering – Hydrogen production and blending demonstration facility

GPA was part of the first electrolysis and renewable gas blending project in the country, completing the engineering design for Hydrogen Park SA (HyP SA) hydrogen production and blending facility in Tonsley, SA. The Australian-first project is a 5-year demonstration of introducing 5% renewable hydrogen to natural gas in the existing gas network, as well as providing 100% renewable hydrogen to industry throughout the country.

Hames Sharley – Scotch College Wellbeing and Sports Centre design

Taking leadership on the urgency of climate change, the University of Adelaide is actively working to reduce carbon emissions and to foster sustainability across its business practices and campus culture. The University has the State's longest running dedicated sustainability program in higher education, establishing the Ecovercity program in 2009. In 2016, the University developed a \$14m Campus Sustainability Plan with 2020 targets across energy efficiency, renewable energy, water and waste reduction, procurement and staff and student engagement. Under this Plan the University has reduced 18% of its Scope 1 and 2 carbon emissions since 2018; diverted 2,754 tonnes of waste away from landfill; produced 3,924 GJ of its own energy on campus; installed 45ML capacity rain water tanks at the Waite Campus for irrigation; and engaged 3,432 students in campus sustainability activities.

iO Energy – Outsmarting the electricity market with carbon offset, time-of-use pricing

iO Energy is a 100% carbon neutral electricity retailer giving South Australian customers the opportunity to pay less for clean energy by becoming smarter consumers. iO Energy fosters smarter consumption through a series of innovations and developing new business and financing models that support electrification and decentralisation.

Makerspace community fabrication workshop – leadership in community education through modeling

Makerspace Adelaide is a creative and educational space actively modeling circular economy practices and raising community awareness. Their emphasis on the whole product life cycle has resulted in an impressive reduction of waste including 4000 litres sawdust diverted from landfill and donated to community; 4.9 tonnes of CO₂ prevented by generating solar energy; at least 500kg timber materials reclaimed, upcycled into new products; 85% of their furniture/fittings are recovered materials; approximately 50kg 3D printing plastic material captured for recycling; and approximately 64 cubic metres of e-waste captured for recycling. Makerspace Adelaide improves community awareness of circular economy through hands-on, community workshops and demonstrations via community services such as The Adelaide Repair Cafe and community outreach at schools, universities and global events.

Mister RYE – South Australian rye benefits the circular economy with innovative drinking straws

Mister RYE is the first rye drinking straw to contribute to the circular economy. Working with organic certified South Australian farmers, Mister RYE uses the by-product of the cereal rye crops to replace plastic straws. Since its development, Mister RYE has diverted 60,000 single use plastic straws from landfill and the environment.

Neuron Mobility – reducing Adelaide’s reliance on cars with emission-free e-Scooters and e-Bikes

Neuron Mobility is a leading shared e-scooter company and micromobility technology developer offering the people of Adelaide a virtually emission-free way to move about the city. Striving to limit their environmental footprint, Neuron Mobility uses carbon neutral electricity, responsibly recycles their retired devices and batteries through EcoCycle, and optimises their operational routes. Their e-scooters are fully modular, allowing them to repair or replace individual parts, increasing the lifespan of their devices to 2-5x that of other e-scooter companies. As of October this year over 947,000 certified carbon neutral kms have been travelled in Adelaide on Neuron Mobility devices. With more than 42% of these rides replacing a trip that would have been made by car, this has resulted in over 10,00kg of CO₂e emissions avoided or the equivalent of over 42,000 litres of petrol.

Northern Edge Studios – sustainability in architecture

Northern Edge Studio is a team of architects, interior architects and designers dedicated to creating beautiful, individual and bespoke spaces that reflect an approach to creating sustainable, sophisticated homes for their clients. Buildings account for nearly 70% of emissions. Northern Edge Studio encourages their clients to re-use existing materials rather than discarding and buying new. By reusing the existing footprint of a building through layout changes, reorganisation and harnessing small efficiencies the amount of demolition on current projects is reduced and promotes renovation over rebuild

Off-grid energy Australia – Powering a whole street of commercial buildings with renewable energy

Off-Grid Energy Australia provides solar and battery storage systems for both grid connected and off the grid applications throughout South Australia. Off-Grid Energy Australia has achieved a fourfold increase in renewable energy system installations along Star Ave in Dudley Park. Through the installation of solar systems on all commercial buildings on the street, Off-Grid Energy Australia offset around 57,730 kWh of electricity. This equates to just over 50 tonnes of CO₂ per year and a total of 1250 tonnes over the system lifespan.

Packwise – transitioning the community to compostable packaging products

Packwise Packaging is a South Australian Company with a new range of plastic free, compostable products. Their new technology, GeoWise, offers a range of compostable products made including cups, lids, bags and straws. Their market-first zip lock bag is fully compostable, including the zip. Their cup range is made from 100% sugarcane and has a universal lid system, allowing for simple inventory control. Using sugarcane paper reduces soil erosion and habitat damage. GeoCups are also oil free, with the lining comprising a corn starch based bioplastic that completely breaks down when composting.

Stone & Chalk – supporting carbon neutrality in the start-up community

Stone & Chalk operates the Start-up Hub at Lot Fourteen, the innovation precinct located in the Adelaide CBD. With 55 different start-ups and community partners working from within their offices, this leading catalyser supports over 200 entrepreneurs and their teams.

Suntrix & Allume – Unlocking shared solar for residents of the City of Adelaide

In a new partnership Suntrix and Allume Energy have introduced the application of 'SolShare' in Adelaide apartment complexes, enabling power generated from a rooftop solar system to be shared between multiple dwellings within the same building. This technology monitors the demand of each residence on site and optimises the solar delivery based on who needs the energy at any point in time, while ensuring every apartment receives the same amount each month.

Treasure Boxes – Reducing childhood poverty and diverting waste from landfill

Treasure Boxes arranges the donation, sorting and distribution of quality childhood essentials in partnership with the community to over 60 referring agencies to ensure vulnerable children in South Australia are able to thrive and grow. Between July 2020 and June 2021, Treasure Boxes supported 1368 babies, kids and teens. Treasure Boxes avoids and minimises landfill waste through re-use, recycling and upcycling of donated items, as well as minimising packaging e.g. using plastic packaging from new car restraints to cover donated mattresses. Through the passion and commitment of over 100 volunteers working in their warehouse, last year alone this resulted in diverting over 83 tonnes of items from landfill and redistributing them to families in need.

Tandem Energy – 2XE for the Energy Services Alliance collaboration for a cleaner future

EfficientSee, 2XE and Tandem Energy have combined to form the Energy & Environmental Services Alliance, made up of like-minded South Australian energy and carbon specialists, including engineers, project managers, technicians and analysts united in supporting organisations to transition to the post-carbon economy. Their model of collaboration creates the opportunity for small-scale energy consultants to have a wider reach and the capacity to take on larger jobs, at the same time improving services for smaller clients through an increase in specialised expertise while maintaining a lower cost base and flexible approach. Recent work of the Alliance has included making recommendations on installation of solar, upgrading equipment to be more energy and water efficient, and purchasing greener energy, and these projects have resulted in a total of 1,100 tonnes of CO₂e savings identified.

Uniting Communities – Leading others towards net zero carbon

Since 2010, Uniting Communities has reduced their emissions by over 30%, resulting in savings of over \$1.5 million, and recently announced its intention to become a net zero organisation by 2035. As the First South Australian organisation and first Registered Charity in Australia to be certified Carbon Neutral in 2015, Uniting Communities is leading the way on climate change action and is now challenging other local organisations to follow. Their U City building is a 6 star Green Star Design and As Built building designed to use 45% less energy and 30% less water than a comparable new building. As a leader in climate action, Uniting Communities have given many presentations, shared their journey, written case studies, conducted tours held information events.

University of Adelaide – campus sustainability leader

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University of Adelaide – Compostables on campus reduces landfill and improves campus soil

The University of Adelaide's highly effective 'Compostables on Campus' campaign tackles single-use plastics, increases organic recycling rates and promotes a more circular campus. Food and beverage retailers at the University's three campuses switched their packaging to compostable options, through changes to lease conditions. The campaign



resulted in a 59% increase of organic recycling compared to the same time in 2020. During this time, the University avoided sending 27.7 tonnes of waste to landfill.

University of Adelaide – Roseworthy Solar System

The Roseworthy Solar Farm and Energy Storage Project is a hands-on demonstration of the University of Adelaide's living laboratory concept. The 1.2MW system utilises two different battery chemistries, coupled with a smart-microgrid to supply the campus with almost half of its energy needs. This one-of-a-kind project will offset over 46% of the Roseworthy campus' annual electricity requirements through its embedded renewable energy system. Future projections see the project producing enough electricity over its lifetime to power 283,708 South Australian homes for a year. This is equivalent to an emissions reduction of approximately 15,524 tonnes of CO₂-e

Urban Ecology / Christie Walk – Model eco city development dramatically reduces energy use

At Christie Walk, 91% of the community's energy needs are generated on site. Technology upgrades since 2017 have reduced an already low-level of electricity imports by a further 80%. Through an ongoing focus on minimising the carbon footprint, annual CO₂ emissions are around 1 tonne per resident compared to the Australian average of 17 tonnes, an impressively low output for what is – but doesn't feel like – high-density living.

ZERO Automotive – Battery electric 4x4 LandCruiser light vehicles for mining & industry

ZERO Automotive has created an Australian-built, solar chargeable, underground-ready, battery electric light vehicle (bELV) to equip mining companies in their journey to zero emissions. ZERO Automotive has supplied six battery electric light vehicles to the mining industry in Australia. Each vehicle will eliminate around 20t of CO₂ emissions per year.