20 YEARS
YEARS
OF GREEN
GLOBE
AWARDS



MINISTER'S FOREWORD

Celebrating 20 Years of Green Globe Awards

The NSW Government's annual Green Globe Awards are the State's premier awards for leadership, commitment and innovation in sustainability and environmental protection.

This year, the Awards celebrate their 20th anniversary. What began in 1999 as a recognition event for leaders in energy efficiency has evolved into a diverse showcase of sustainability leadership across all sectors and age groups.

Over two decades, the Awards have gained a strong reputation for independent, evidence-based judging, connecting people and inspiring action within communities.

The reach is broad. From the Northern NSW community sports club winning one of the first awards in 1999 for its impressive energy savings, to trailblazing innovation with the Solar Sailor hybrid ferry that harnesses solar and wind energy, world-leading scientist Professor Deo Prasad's low-carbon construction breakthroughs, wetlands regeneration along the Murray River, and Oz Harvest's immensely successful work repurposing excess food to feed the homeless – the Green Globes have recognised the magnitude and dynamism of sustainability initiatives throughout the state.

This year's awards are bigger than ever. We are seeing environmental gains from cutting edge technologies, including artificial intelligence, advanced hydroponics and innovative polymer

recycling, and climate-resilient infrastructure – all part of a growing momentum towards sustainability.

Over the next 20 years, with the challenges we face in responding to a changing climate, the sustainability sector will be more relevant and more significant than ever. Our work towards a more sustainable future is imperative.

It provides NSW with opportunities to show even greater leadership, to take bolder steps, to align with the UN Sustainable Development Goals and promote a circular economy that not only conserves valuable resources and improves environmental outcomes, but also connects our people with new jobs and skills that support real and sustained change.

The awards demonstrate the tremendous achievements made possible when industry, communities and government work together to produce better environmental, social and economic outcomes.

I would like to congratulate these outstanding businesses, organisations and individuals who have worked so tirelessly over the past 20 years to champion environmental sustainability in NSW, as well as our partners past and present who have made the Green Globe Awards possible.



I am proud to be involved with the 20th anniversary of the Green Globe Awards. I hope you are as inspired by these stories as I have been. I encourage everyone to continue their efforts to transform our communities and deliver the best outcomes for NSW.

THE HON. MATT KEAN MP

NSW MINISTER FOR

ENERGY AND ENVIRONMENT

2019

South Tweed Bowls Club

Good sports in the community

South Tweed Bowls Club won the 1999 Gold Award for its comprehensive rethink of energy use. The Club enacted a raft of efficiency measures to reduce electricity requirements for air conditioning, lighting and poker machines, lowering its annual energy bill by 30 per cent and saving more than 1,465 tonnes of greenhouse gases. This is equivalent to taking 318 cars off the road per year.

In the two decades since, the Club has almost halved its water use, with efficient fittings and the introduction of water tanks for irrigation of the bowling greens. It has installed LED lighting throughout the premises and car park and significantly reduced grease trap waste.

The Club is an effective community influencer, leading and educating through its own example.



South Tweed Bowls Club from the air.



Grace Hotel

A heritage building upgraded for the 21st century

The Grace Hotel is a Sydney landmark building opened in 1930 by retail chain Grace Brothers to serve as their showpiece store. In 1997, it was refurbished and began operating as a hotel.

Soon after, the hotel enacted a suite of energy-efficiency measures, achieving emissions reductions equivalent to removing 315 cars from the road for good, for which it was awarded the Gold Energy Smart award in 2000.

The Grace Hotel has shrunk its footprint even further since, utilising technological advances to reduce energy and water consumption, increase recycling rates and minimise waste, earning a 4 star NABERS Energy rating.



Philip Pratley, Grace Hotel accepting the 10 Year Sustainability Achievement Award in 2011 from The Hon. Robyn Parker, Minister for the Environment.



NSW Sugar Milling / Sunshine Sugar

World leaders in sustainable sugar production

In 2000, the Green Globe Awards recognised NSW Sugar, now Sunshine Sugar, for its energy efficiency program that saw sugarcane waste repurposed as fuel. This allowed it to eliminate coal imports and become a net 'green' electricity exporter.

In 2012, Sunshine Sugar became the world's only 100 per cent Bonsucro certified sustainable producer. The Bonsucro standard applies to Sunshine Sugar's entire supply chain from farm to finished goods. The certification is audited annually, which with three mills and 20 growers supplying the company, is an involved process but well worth the effort. Sunshine Sugar has successfully bid to supply

major retailers and confectionery manufacturers, including Woolworths, Ferrero and Unilever, guaranteeing markets for its product. The company has also benefited from increased yields, lower costs and reputational gains, leading other sugar refiners to adopt Bunsucro standards.



Greg Messiter, NSW Milling Co-operative, lan Higgins, SEDA.

66

Following on from recognition as a 2000 Green Globe Award winner, we have adopted continuous improvement methodologies that encompass all aspects of the NSW sugar industry.

CHRIS CONNORS, CEO, SUNSHINE SUGAR



Pacific Power / Tilt Renewables

Wind power pioneers

In 2001, Pacific Power won a Green Globe Award for its ground-breaking windfarms at Crookwell and Blaney. The success of these projects demonstrated the commercial viability of wind energy and helped win public acceptance of the technology.

Now owned by Tilt Renewables, the windfarms are at the end of their design life but continue to operate reliably, producing more energy than anticipated thanks to technology improvements.

Tilt operates eight windfarms in Australia and New Zealand with two more large-scale developments underway in the Upper Hunter and Yass regions. Together they will potentially deliver more than 1,000 megawatts of renewable energy for NSW.



Wind turbine blade lift.



Robert Dane / Solar Sailor

Trailblazing environmental innovation

Robert Dane was named 2002 SEDA Ambassador for his pioneering work in applying sustainable energy technologies across the maritime, tourism and transport industries.

His award-winning invention, the Solar Sailor hybrid ferry, harnessed solar and wind energy to provide an eco-tourism experience on Sydney Harbour for a decade, and was an important symbol of the 2000 Green Olympics.

Robert built five more hybrid ferries and exported the technology to India, China and Hong Kong before establishing his company OCIUS to develop unmanned solar/wind/wave and ballasted powered ocean vessels.

In 2018, OCIUS secured a significant contract to supply "intelligent" unmanned surface vessels to improve Australian maritime defence capability.



Solar Sailor ferry on Sydney Harbour.



Andrzej Listowski / Sydney Olympic Park Authority

Gold standard environmental performance

Sydney Olympic Park Authority (SOPA) has a proud record of environmental initiatives and sustainability leadership.

In 2003, Water & Energy Manager, Andrzej Listowski was recognised for overseeing remarkable energy and water conservation measures, including a 25 per cent GreenPower purchase that reduced emissions by 1,870 tonnes and was Australia's first large-scale urban water reclamation scheme. This is equivalent to the CO2 production of 134 homes per year.

The project uses recycled sewage and stormwater to supply irrigation, toilet flushing and other non-drinking needs throughout the park and the suburb of Newington, saving 50 per cent of drinking water.

In 2013, SOPA received a 10 Year Sustainability Achievement Award for best practice conservation and sustainability in all of their functions. They are currently working towards accreditation as a 6-star Green Star Community, and net zero emissions by 2030.



The Hon. Frank Sartor, Minister for Energy and Utilities, Andrzej Listowski, SOPA.

I have worked at the forefront of an integrated urban water cycle and sustainable energy solutions for over 25 years. The Green Globe Awards provided me with a unique opportunity to showcase innovation, leadership and the positive impact sustainable initiatives have on our communities and environment.

ANDRZEJ LISTOWSKI, SENIOR MANAGER WATER & ENERGY, SOPA



2003

Professor Deo Prasad AO

A world-leading researcher and sustainability advocate

In 2004, Deo Prasad won the Renewable Energy Champion Green Globe Award in recognition of his outstanding work advancing energy optimisation in urban environments in Australia and around the world.

A Distinguished Professor (Scientia) at UNSW's Faculty of the Built Environment, Deo has been a driving force for sustainable development throughout his career. He is an international authority on low-carbon construction and design and a leading advocate for sustainability in Australia.

In 2011, Deo established the Cooperative Research Centre for Low Carbon Living (CRCLCL), the largest ever collaboration between industry, government and universities. The CRCLCL is developing social, technological and policy tools to help prevent climate change by reducing residential and commercial greenhouse gas emissions in Australian cities.

In 2014, he was appointed an Officer of the Order of Australia for services to sustainability and renewable energy.



The Hon. Frank Sartor, Minister for Energy and Utilities, Prof Deo Prasad of UNSW.

The Award has been a great acknowledgement and recognition for what we do and of course very encouraging to continue.

SCIENTIA PROFESSOR DEO PRASAD AO FTSE, CEO, LOW CARBON LIVING CRC



Albury Water

Turning wastewater into a wildlife sanctuary

In 2005, Albury Water was recognised by the Green Globes for its work in water conservation and wastewater reuse. Its initiatives lowered water consumption by 30 per cent, avoiding the need for water restrictions during a severe drought. The utility also drew accolades for the Wonga Wetlands wastewater reuse project: a series of interlinked lagoons and billabongs fed by treated wastewater to replace river water diverted for agriculture.

In the years since, the area's native plants and wildlife have returned, with

155 identified bird species and scores of other animals finding sanctuary there.

The Wonga Wetlands are a unique resource and a popular ecotourism attraction that draws birdwatchers, bushwalkers and photographers from around the world.



Daryl McGregor, Manager Albury Water, The Hon. Carl Scully, Minister for Utilities.



Mirvac

Building a better future

In 2006, the inaugural Premier's Sustainability Award honoured Mirvac for its ongoing commitment to best practice energy and water use, noting that sustainability was integrated into its organisational culture with targeted support for research, education and awareness-raising.

The property developer's commitment to the environment has only deepened since. Launched with Bond University in 2008, the Mirvac School of Sustainable Development was the country's first tertiary program to formally recognise sustainability as integral to urban planning and design.

Mirvac's ambitious 2014 sustainability strategy, This Changes Everything, set zero landfill and net positive carbon and water targets by 2030. Its House with No Bills pilot program, aims to achieve total energy self-sufficiency in the residential sector.



Ross Threthewy, Mirvac.



North Sydney Council

Environmental leaders for over 20 years

In 1996, North Sydney Council began a journey towards ambitious greenhouse gas, energy and water savings. To achieve these, the Council invested over \$4.4 million in projects that included hybrid vehicles, GreenPower purchase and head office efficiencies.

In 2008, North Sydney won the Government Environmental Sustainability Award in recognition of its achievements, lowering emissions by 3,060 tonnes and saving more than 100,000 litres of water annually.

Its continued efforts in the last decade have resulted in vastly increased

biodiversity, the doubling of solar power uptake, and installation of cycle paths and dedicated share car spaces.

Its commitment is replicated in the community, with residential emissions falling even as the population grows.



Genia McCaffery, former Mayor of North Sydney Council, Hunter Water's Managing Director, Kevin Young, Albert Lo, North Sydney Council.



Ethnic Communities' Council of NSW

Sustainability for all Australians

The Ethnic Communities' Council of NSW (ECCNSW) plays a key role in delivering the sustainability message to culturally and linguistically diverse communities. In 2009, ECCNSW was recognised with two Green Globe Awards for its excellent work with 350 Chinese and Vietnamese-speaking restaurant owners and dry cleaners, helping these small businesses access funding for equipment upgrades to improve water and energy efficiency.

Overcoming language barriers is central to ECCNSW's sustainability mission.

One example is its 2014 Business Energy Smart Tips project.

Bilingual staff visited more than 625 small businesses throughout Sydney to assess their energy consumption and recommend savings measures in the business owner's own language. As a result, 86 per cent of these businesses took steps to reduce their energy use.



Helen Scott, Elsa Cheung, Joyce Fu, Mark Franklin and Jack Passaris, The Ethnic Communities' Council of NSW.



Sydney Theatre Company - Greening the Wharf

Creative sustainability solutions

In 2010, Sydney Theatre Company won the Premier's Sustainability Award for 'Greening the Wharf': an ambitious program to transform its century-old heritage-listed dockside warehouse building on Sydney Harbour into an inspirational example of environmental leadership. The program's scale and comprehensive approach set the standard for performing arts companies worldwide.

Launched in 2007, Greening the Wharf encompassed rainwater harvesting and solar panels, extensive recycling, behavioural change, sustainable theatre production practices, and broader community engagement and education. By 2017, the Company had almost halved its grid energy consumption and emissions, reduced freshwater use by

86 per cent, and was generating 36 per cent less waste annually.

Following the completion of further building upgrades, the Wharf will enter a new, reinvigorated phase of its life cycle once the Company is back home and operational in 2020.



The Hon. Frank Sartor Minister for Climate Change and the Environment, Cate Blanchett and Andrew Upton, Sydney Theatre Company.



OzHarvest

Australia's leading food rescue charity

Globally, one-third of all food produced is wasted. Ronni Kahn founded OzHarvest in 2004 to combat this alarming statistic, collecting leftover food from restaurants and delivering it to people in need. The charity has since grown from its Sydney origins to establish a national presence, rescuing over 180 tonnes of surplus food each week from 3,500 donors, across the hospitality, farming, and corporate sectors.

In 2011, the Green Globes recognised OzHarvest for its outstanding innovation

and excellent performance in every area of sustainability.

Since then, OzHarvest has replicated its model in South Africa, the UK and New Zealand, and expanded beyond food redistribution to establish school programs and opened the first rescued food supermarket.



Ronni Kahn, OzHarvest and Gareth Jennings, Rheem Australia.



Pablo & Rusty's Coffee Roasters

A small business with a big impact

For over 15 years, cafe and roastery group Pablo and Rusty's has been at the cutting edge of sustainable practices in the hospitality industry. From embedding sustainability into their supply chain to advocacy on a range of environmental issues, the company has effected change locally and internationally.

With a goal of becoming 'better than 100 per cent carbon neutral', Pablo and Rusty's has worked extensively with its Indonesian suppliers to source coffee beans from sustainable growers while achieving huge reductions in its local environmental footprint by minimising wastage, electricity consumption, and water usage.

Since winning the Small Business
Sustainability Award in 2012, Founder,
Saxon Wright has successfully launched
Huskee Cups: reusable cups made from
coffee husks that are distributed and
recycled through a network of 300
cafes nationally.



Saxon Wright, Pablo & Rusty's and Dr Tony Wilkins, News Ltd.



The GPT Group

A global sustainability leader

The GPT Group is a sustainability trailblazer. In 2011, it was the first Australian real estate signatory to the world's largest corporate sustainability initiative, the UN Global Compact. Two years later, GPT won the Premier's Award for its world-leading environmental performance that saw it top the global Dow Jones Sustainability Index for Real Estate three years in a row.

Renewable power, lighting upgrades and continuous monitoring have helped GPT achieve 61 per cent of its 2030 zero emissions target, while lowering its operating costs by more than \$20 million annually. GPT's profitable strategy has been replicated throughout the industry to make Australia's commercial property sector the world's most sustainable.



Angus Gordon, Sue Wiblin, Greg Sanders, Bruce Precious and Tanny Mangos, GPT with The Hon. Robyn Parker, Minister for the Environment (centre).



Tim Silverwood / Take 3 for the Sea

A simple way to make a difference

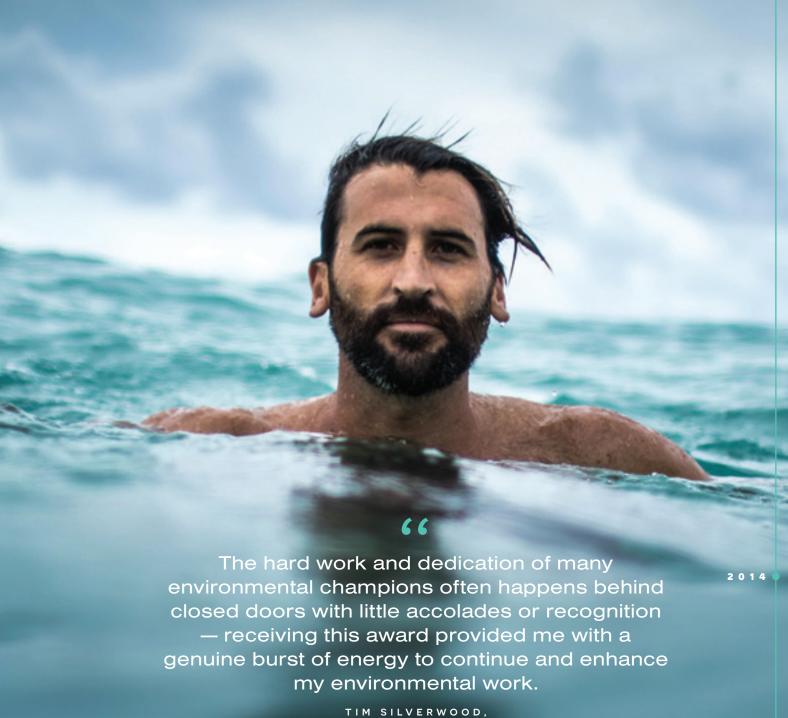
Tim Silverwood is a passionate surfer and environmentalist. Dismayed by the litter polluting his local Central Coast beach, Tim co-founded Take 3 for the Sea in 2009, to help clean up our waterways. The initiative's simple directive — take three pieces of rubbish away with you when you leave the water — has captured the imagination of beachgoers throughout Australia and the world.

Take 3 has grown significantly since winning the award in 2014.

More than 350,000 students and 40 surf clubs have participated in its education program and social media references show it is active in 129 countries, leading to an estimated 10 million pieces of rubbish being removed from marine environments every year.



Tim Silverwood, Take 3 for the Sea with Chris Reidy, ISF UTS.



TIM SILVERWOOD,
CO-FOUNDER, TAKE 3 FOR THE SEA

Brookfarm Muesli

Healthy food grown in a healthy environment

Brookfarm is a family-owned business, based in Byron Bay, producing gourmet macadamia products for domestic and international markets. Sustainability is central to its business model, from the farm to its all-natural ingredients and solar-powered manufacturing facility.

Brookfarm pioneered biological controls in macadamia farming to drastically reduce chemical and pesticide use. Three decades of revegetation have created a lush, subtropical rainforest in the heart of the farm; regenerating the macadamia's native habitat to provide a balanced ecosystem and wildlife haven.

Since winning the Green Globe Awards, Brookfarm has concentrated on developing recyclable packaging with partner Omniverse Foster to deliver a stable 12-month shelf life for its products without the use of preservatives.

With a Recycle 4 prototype in the testing phase, the company says it is 'closing in on a viable recyclable solution'.



Jess and Will Brook, Brookfarm and Robin Mellon, Supply Chain Sustainability School.



The Bower Reuse & Repair Centre

An environmental charity committed to reducing landfill

The Bower Reuse & Repair Centre is on a mission to change the disposable mindset by working with local councils to collect and rehome unwanted household goods, and by offering lessons in furniture and appliance repairs through its Repair Cafes and low-cost workshops.

In 2016, the Centre was a double Green Globe Award winner in recognition of its vision and impact. To date, it has reduced landfill by approximately two million kilograms and taught basic DIY skills to more than 12,000 workshop participants. Since winning the award, it has opened a second centre in

Parramatta; established weekly Repair Cafes in Redfern and Zetland; initiated a Tiny House construction workshop through Sydney Community College; and increased its partner councils from 13 to 21, to now serve 2.5 million residents Sydney-wide.



Annette Mayne and Louise Gulbis, The Bower Reuse & Repair Centre.



Anna Jane Linke / Seaside Scavenge

Using trash as cash to clean up our waterways

Founded by Anna Jane Linke in 2015, Seaside Scavenge is a unique clean-up event where participants collect marine litter to use as cash at pop-up markets selling secondhand items donated by the local community.

Targeting plastic and textile waste, Seaside Scavenge has removed seven tonnes of rubbish from Australian waterways and recycled more than 155 kilograms of used clothing and household goods through market stalls in the last two years alone.

Since winning the Young Sustainability Champion Award in 2017, Anna Jane's 'conscience over convenience' message has gone global with Seaside Scavenge chapters established in South Africa and Britain.

The corporate world has responded too, with KPMG, Lend Lease, Taronga Zoo and Google partnering with Anna Jane to reduce office waste and improve recycling rates.



Rachel Raymond, Anna Jane Linke and Bonnie Perris, Seaside Scavenge.



Australian Museum - FrogID Project

A crowd-sourced conservation project

Australia is home to 240 frog species, most of which are found nowhere else in the world. But their population is under threat with four species already extinct. The Australian Museum's FrogID national research project is mobilising the general public to help protect frogs by recording frog calls with the FrogID smartphone app. The sounds are matched to weather and habitat data to determine where frogs are at risk and how they are reacting to climate change.

Since its launch in November, 2017, the app has been downloaded more than 100,000 times, collecting 75,000 frog calls from over 185 species. With partner Bunnings, the FrogID education program has helped schools build more than 50 ponds to provide frog habitats.



Kim McKay and Jodi Rowley, Australian Museum, with Anthony Lean, NSW Office of Environment and Heritage.



Green Connect

Growing a sustainable, thriving community

The Illawarra-based social enterprise addresses three urgent problems: unemployment, waste, and unsustainable food.

Green Connect provides unemployed youth and refugees with meaningful work in waste recovery services and at its organic farm to help them gain the necessary skills to access the local job market.

It is actively improving the environment and strengthening the community with each person it helps to find long-term employment. Green Connect's integrated sustainability project offers a replicable model to meet the environmental, economic and social challenges of the 21st century.



Kylie Flament, (second from right), with the Green Connect Farm team.



Credits

© 2019 State of NSW and Department of Planning, Industry and Environment

With the exception of photographs, the State of NSW and Department of Planning, Industry and Environment are pleased to allow this material to be reproduced in whole or in part for educational and non-commercial use, provided the meaning is unchanged and its source, publisher and authorship are acknowledged. Specific permission is required for the reproduction of photographs.

The Department of Planning, Industry and Environment (DPIE) has compiled this report in good faith, exercising all due care and attention. No representation is made about the accuracy, completeness or suitability of the information in this publication for any particular purpose. DPIE shall not be liable for any damage which may occur to any person or organisation taking action or not on the basis of this publication. Readers should seek appropriate advice when applying the information to their specific needs.

All content in this publication is owned by DPIE and is protected by Crown Copyright, unless credited otherwise. It is licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0), subject to the exemptions contained in the licence. The legal code for the licence is available at Creative Commons.

DPIE asserts the right to be attributed as author of the original material in the following manner: © State of New South Wales and Department of Planning, Industry and Environment 2019.

Published by:

Environment, Energy and Science

Department of Planning, Industry and Environment

59 Goulburn Street, Sydney NSW 2000

PO Box A290, Sydney South NSW 1232

Phone: +61 2 9995 5000 (switchboard)

Phone: 1300 361 967 (Environment, Energy and Science enquiries)

TTY users: phone **133 677**, then ask for **1300 361 967**

Speak and listen users: phone **1300 555 727**, then ask for **1300 361 967**

Email: info@environment.nsw.gov.au

Website: www.environment.nsw.gov.au

Report pollution and environmental incidents

Environment Line: 131 555 (NSW only) or info@environment.nsw.gov.au

See also www.environment.nsw.gov.au

ISBN 978-1-922317-58-2

EES 2019/0634

October 2019

Photography:

| YEAR | HISTORICAL PHOTO | PORTRAIT |
|---------------------------|-------------------------|---------------------------------|
| 1999 | South Tweed Sports Club | LMadden/DPIE |
| Mar 2000 | AJames/DPIE | QJones/DPIE |
| Oct 2000 | DPIE | LMadden/DPIE |
| 2001 | SEDA | Tilt Renewables |
| 2002 | Robert Dane | GKalliris/DPIE |
| 2003 | TCole/DPIE | Andrzej Listowski |
| 2004 | TCole/DPIE | Deo Prasad |
| 2005 | TCole/DPIE | Albury City |
| 2006 | MW Photography/DPIE | Mirvac |
| 2008 | DPIE | North Sydney Council |
| 2009 | AJames/DPIE | QJones/DPIE |
| 2010 | AJames/DPIE | NWalker/STC |
| 2011 | AJames/DPIE | RMortimer/OzHarvest |
| 2012 | ROslan/DPIE | Pablo & Rusty's Coffee Roasters |
| 2013 | NBoog/DPIE | QJones/DPIE |
| 2014 | CHannagan/DPIE | NPumphrey/Tim Silverwood |
| 2015 | LMadden/DPIE | DMinchev/Brookfarm |
| 2016 | EEtie/DPIE | QJones/DPIE |
| 2017 | EEtie/DPIE | Seaside Scavenge |
| 2018 | EEtie/DPIE | JAlcock/AM |
| 2019 | Green Connect | Green Connect |
| Minister's foreword photo | | DPIE |

Artwork:

Otis Carey

