
Australian Government
Australian Trade and Investment Commission
Australian
Green Economy Directory
AUSTRALIA

Minister’s foreword

Australia’s green economy opportunity

As the world looks to decarbonise, businesses are looking for practical solutions and proven technologies that can meet their environmental and economic ambitions. Australia has expertise and world-class solutions that address some of the world’s most pressing challenges on the road to net zero.

Australia does more than just contribute ideas and ambition to the global climate conversation; we deliver the technologies, services and commercial solutions that create real-world impact.

The Green Economy Directory is a gateway into Australia’s green economy capability and expertise.

The 160 businesses featured in these pages demonstrate Australia’s strengths across renewable energy, sustainable infrastructure, critical minerals, clean technologies, sustainable agriculture, circular economy solutions and climate resilience.

This directory includes innovative technologies that are helping solve hard-to-abate problems, from innovative livestock feed that limits methane emissions to award-winning AI technology that reduces fungicide use. It also highlights capabilities the world already relies upon, from marine infrastructure that protects our low-lying Pacific neighbours from rising sea levels to biocatalysts turning agricultural waste into renewable hydrogen, linking food security and clean energy.

The Australian Government is committed to building a strong and competitive green economy. Through investment, innovation, supportive policy settings and international engagement, we are creating the conditions that can enable new industries, technologies and partnerships to thrive.

Backed by a stable economy, world-class research and leading industry capabilities, Australian businesses are well positioned to help partners achieve their decarbonisation and sustainability ambitions. Through long-term partnerships, we can accelerate sustainable development, unlock economic opportunities and deliver shared prosperity.

I am pleased to present this directory and invite you to explore the innovative Australian businesses featured within its pages. Together, through collaboration, innovation and shared ambition, we can accelerate the green transition and build a more sustainable, resilient and prosperous future.



Senator the Hon. Don Farrell
Minister for Trade and Tourism

Cover page: Humpty Doo Barramundi farm in the Northern Territory, Australia

Cover back page: CSIRO Energy Centre / National Solar Energy Centre, Newcastle, New South Wales, Australia

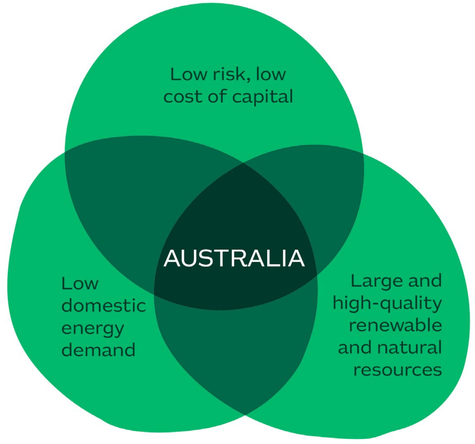


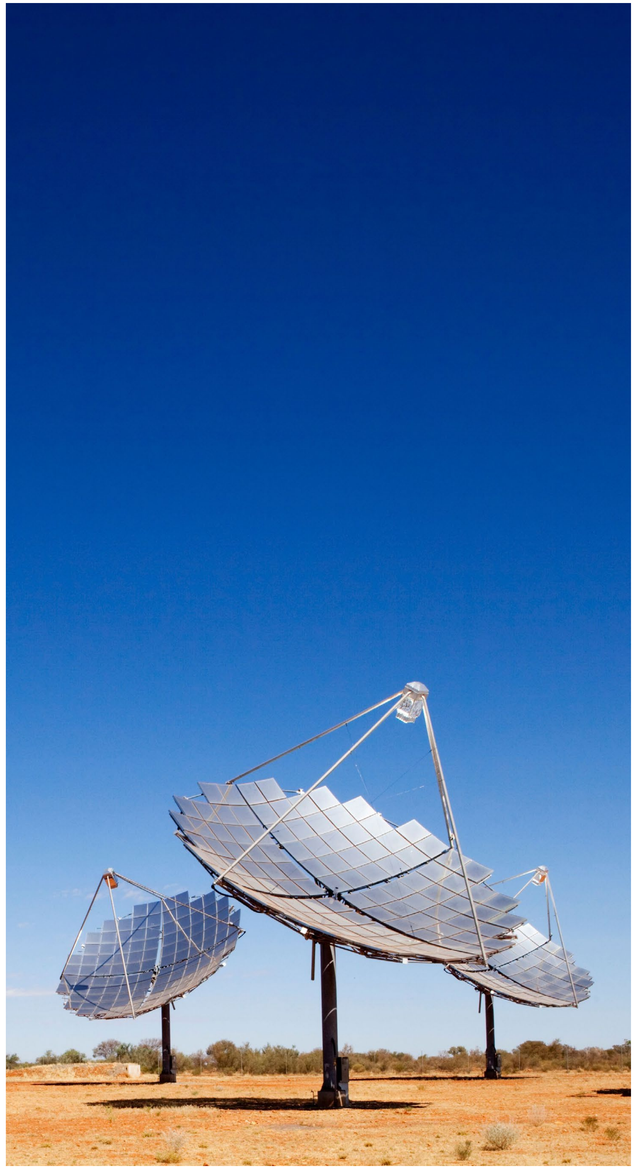
Darlington Point solar farm

Australia: deep experience, unlimited potential

The transition to a lower-emissions economy is one of the most ambitious economic opportunities of our time. Australia is well placed to support this transformation through innovation, expertise and practical solutions. With world-class renewable energy resources, critical minerals, advanced research capability and a strong record of commercialising new technologies, Australia offers the expertise and solutions international partners need to support a lower-emissions future. Australian businesses are already delivering technologies, services and expertise across clean energy, sustainable mining, climate-smart agriculture, circular economy solutions, green fuels and workforce development. Through decades of experience managing complex resources industries and operating in challenging environments, Australian companies have developed practical solutions that improve productivity, resilience and sustainability.

Figure 1 - Australia is uniquely positioned to support global growth in clean energy-intensive industries





Solar thermal parabolic dish power station, Australia

Australia combines economic stability, a highly skilled workforce and strong international connections with abundant natural advantages. We are a trusted global supplier of energy, resources, food and services, supported by a transparent business environment, strong institutions and globally recognised research and education sectors.

Australia's renewable energy potential is significant. Our vast solar and wind resources, combined with expertise in grid integration, energy storage and project development, position Australia to play an increasingly important role in supplying the clean energy, products and technologies needed for global decarbonisation.

Australia is the world's largest producer of iron ore and plays a vital role in supplying the critical minerals needed for the global energy transition, including lithium, rare earth elements, nickel, cobalt, graphite and vanadium. Supported by world-class resources, technical expertise and a stable investment environment, Australia is strengthening its capabilities across the critical minerals value chain, from extraction and processing to value-added production and recycling. Australian businesses are helping strengthen global supply chains while supporting the production of batteries, renewable energy technologies and other advanced industrial applications.

Australia has a strong innovation ecosystem that brings together industry, researchers and entrepreneurs to develop practical solutions to global sustainability challenges. From clean energy and low-carbon fuels to sustainable agriculture, resource recovery and carbon management, Australian innovation is creating technologies and capabilities with applications across international markets.

The businesses featured in this directory reflect the breadth of Australia's green economy capability. They offer technologies, services and expertise to help governments, customers and industry improve productivity, strengthen resilience and accelerate the transition to a lower-emissions future.



UNSW Green Ceramics MICROfactorie

Sectors

Australia's green economy expertise

Australia's green economy is powered by a diverse ecosystem of businesses, researchers, infrastructure providers and innovators delivering practical solutions across the global sustainability value chain.

From renewable energy generation and hydrogen technologies to sustainable agriculture, advanced manufacturing, circular economy solutions and digital innovation, Australian organisations are helping industries reduce emissions, improve productivity and build resilience for the future.

The organisations featured throughout this directory represent a broad cross-section of Australia's green economy capability. Together, they demonstrate the depth of expertise, innovation and commercial readiness available across key sectors driving the transition to a low-carbon, resource-efficient and globally connected economy.

Explore the businesses featured in this directory to discover how Australian products, services and technologies can offer solutions to some of the world's most pressing environmental challenges and contribute to sustainable economic growth.



Hysata

01 Clean energy

Renewable generation, energy storage, hydrogen, grid technologies and electrification solutions.

Subsectors:

Renewables and generation
Storage and firming
Energy systems and management
Hydrogen, ETS and emerging fuels



Rubicon Water

02 Sustainable cities

Green infrastructure, low-carbon materials, smart buildings, urban resilience and water solutions.

Subsectors:

Water and waste
Green infrastructure
Smart urban and transport systems



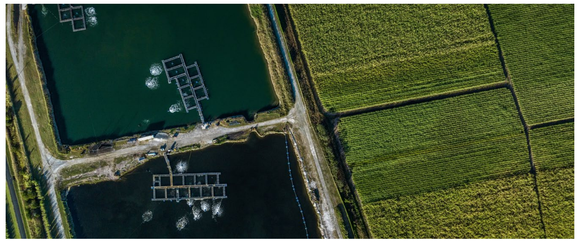
IHC, Moma Titanium Minerals Mine, Mozambique, Africa

03 Sustainable mining

Mining technology, resource efficiency, environmental performance and critical minerals processing.

Subsectors:

Zero carbon mine / small footprint mine
Waste free mine / smart water mine
Community mine
Sustainable mining technologies



Sustainable fish farm Queensland

04 Agriculture

Precision agriculture, food systems, biological solutions and climate-smart farming technologies.

Subsectors:

Sustainable agriculture
AgTech and precision farming



Solar farm installation

05 Green innovation & skills

Research, digital capability, workforce development, software and emerging technologies.

Subsectors:

R&D and Innovation
Education
Workforce Training



Recycled plastics inspection

06 Circular economy

Resource recovery, recycling, carbon management and sustainable materials.

Subsectors:

Waste-to-value solutions
Recycling and remanufacturing

Clean energy

Australia is helping shape the future of energy through abundant renewable resources, deep industry expertise and a strong record of innovation and deployment. Our rapidly evolving, geographically diverse energy market has built practical capability across renewable generation, storage, grid integration, distributed energy and resilient power systems.

Australian businesses and research organisations are developing and delivering solutions across solar, wind and ocean energy, battery and thermal storage, hydrogen, industrial heat, low-carbon fuels and energy management. Supported by some of the world's strongest solar and wind resources and a long history of clean energy innovation, the sector also offers advanced engineering, project development, power conversion, digital modelling, asset management and manufacturing expertise.

These strengths enhance energy security, improve system performance and help reduce emissions across electricity networks, industry, transport, mining, infrastructure and remote communities. They span commercially established products and services operating internationally, as well as emerging technologies seeking demonstration opportunities, investment and global partners.

The companies featured here showcase some of the depth of Australia's clean energy capability. They offer export-ready products, specialist services and emerging technologies for customers and partners seeking practical pathways to cleaner, more secure energy systems

Australia's biggest opportunity for growth and prosperity is the global shift to clean energy

Clean energy subsectors

Renewables and generation

Clean energy generation including solar, wind, wave, waste to energy, hydrogen and bioenergy.

Electrifying Australia
Surya Build
Gelion Technologies
FPR Energy
WaveX
OSW (One Stop Warehouse)
Carnegie Clean Energy
Tindo Solar
Solahart
Tasman Environmental Markets
Laawun Energy Solutions
Enosi
United Innotech
Kardinia Energy
WestWind Energy
Global Greens
Entura
Ekistica
Social Impax
ATEC
Future Value Global
SMEC
Jet Zero
EPC Renewables
Pilbara Solar
CQSola
StarCharge

Storage and firming

Storage of clean energy including batteries and smart, micro, off-grid and behind the meter solutions.

1414 Degrees
Voltavate
Magellan Power
Rux Energy
VSUN Energy
Eku Energy
MGA Thermal
NHOA

Energy systems and management

The supply, infrastructure and demand components used to produce, transport and consume clean energy.

BetterFleet
Arnowa
Retragreen
Rechin
Beyond EV
Gridcog
Raedyne Systems
Climate Change Response
SwitchDin
Carbonix
QUT Energy Transition Centre
AGILE CONSULTING ENGINEERS
Masters & Young
Plan Safe

Hydrogen, ETS and emerging fuels

New fuels such as hydrogen as an alternative to gas, emission trading schemes (ETS), Sustainable Aviation Fuels, Biofuels and Renewable Diesel.

Worley
HAMR Energy
Endua
Hazer Group
Trovio
Hysata
Energys
Cavendish Renewable Technology(CRT)
Globo Hydro Power



Hysata



ELECTRIFYING AUSTRALIA

Solar and battery systems that lower energy costs and increase energy independence

Electrifying Australia is a commercially established renewable energy company delivering end-to-end solar and energy infrastructure, from residential systems to utility-scale solar projects. Its leadership and technical team bring more than a decade of solar industry experience and have delivered over 3,000 solar and energy installations, giving customers a single technical and commercial partner from feasibility through to long-term asset performance.

A rapidly evolving energy market makes long-term investment decisions increasingly complex. The company assesses each customer's energy profile, site conditions and future requirements, then engineers a complete solution across solar, battery storage and energy management. Established relationships with major global manufacturers allow it to select compatible, scalable equipment rather than a one-size-fits-all system.

Capability covers the full project lifecycle: energy assessment, system engineering and design, technology selection, procurement, financing, installation, commissioning and ongoing asset support, with monitoring, maintenance and diagnostics after deployment. The business operates at scale across New South Wales, Victoria, Queensland and the ACT, supporting residential, commercial and increasingly complex energy projects.

3,000+ installations by the team | **4.9** SolarQuotes rating | **8** industry awards

Sectors

Clean Energy

Key Capabilities

Renewables & Generation · Energy Management & Asset Services

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What Electrifying Australia delivers

End-to-end EPC delivery for solar, battery storage and integrated energy systems — engineering and design, equipment supply, project financing, installation and commissioning — alongside energy consulting, system optimisation and asset monitoring.

Selected project

Dumaresq Street Cinema, Campbelltown NSW — 169 Jinko Tiger Series 550 W modules (approx. 93 kW), delivered with Jinko Solar Australia.

Scan to connect



SURYA BUILD

Digital construction platform for utility-scale solar construction companies

Surya is the only utility-scale solar construction platform that unifies progress tracking, logistics and quality management within a single digital twin. Its standout capability is tracking materials across enormous solar construction sites, allowing project teams to follow critical materials from delivery through to installation — improving supply chain efficiency, reducing losses and supporting on-time project delivery. Companies using the platform save up to $2,300 per MW built.

Utility-scale solar developers face growing pressure to deliver projects faster with fewer resources. Disconnected construction, logistics, quality and planning systems can consume 30–40% of project effort in administration and manual reporting, while field crews wait for information, approvals or missing materials. These inefficiencies increase costs, reduce productivity and create schedule risk on projects worth hundreds of millions of dollars.

Surya creates a digital twin of solar construction by connecting material logistics, construction progress and quality management in one platform, replacing disconnected spreadsheets, paper-based processes and static drawings — and operating effectively in remote, low-connectivity environments. Giving decision-makers immediate visibility of construction performance reduces administration and resolves material, quality and execution bottlenecks before they affect project schedules. The platform is deployed across more than 30 utility-scale solar projects representing over 3 GW of renewable energy capacity in Australia, New Zealand and Germany.

30+ projects deployed | **3.5 GW+** capacity covered | **3** countries

Sectors

Clean Energy

Key Capabilities

Renewables & Generation · Solar Construction

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What Surya delivers

A SaaS subscription for utility-scale solar developers and EPC contractors, engaged per project for the duration of construction or as an enterprise subscription across multiple concurrent projects. Implementations include platform configuration, onboarding, training and ongoing support.

Selected clients

SolarX (Australia) · Bam Bam Pile Driving (Australia) · Ecotec (Germany)

Scan to connect



GELION TECHNOLOGIES

Nano-Encapsulated Sulfur (NES™), an alternative battery cathode active material to incumbent NMC & LFP technologies

Gelion Technologies transforms sulfur, one of the world's most abundant and low-cost resources, into a high-performance cathode active material. Its Nano-Encapsulated Sulfur (NES™) is a drop-in design that requires no cell redesign or gigafactory retooling, offering a scalable pathway to energy independence, resilient local supply chains and battery performance that can exceed today's NMC and LFP standards.

Battery manufacturers, automotive OEMs and governments must meet rapidly growing demand for energy storage while reducing costs, supply chain risk and reliance on imported critical minerals, as today's battery materials are often expensive, geopolitically concentrated and vulnerable to disruption. By encapsulating sulfur within a stable cathode structure, NES™ replaces supply-constrained materials while remaining compatible with existing lithium-ion cell designs and manufacturing infrastructure.

NES™ is at the pre-commercial validation and pilot scale-up stage. In the United States, Gelion is advancing testing through a Cooperative Research and Development Agreement with the U.S. Department of Energy's National Laboratory of the Rockies. In the United Kingdom, QinetiQ is evaluating NES™ for drone batteries and Nissan Technical Centre Europe for electric vehicles, including solid-state systems, while validation programmes with TDK and Mitsui Kinzoku in Japan are assessing performance and manufacturability.

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What Gelion delivers

NES™ cathode active material for next-generation battery products, available through joint development programs, product validation and testing partnerships, technology licensing opportunities and future cathode material supply agreements.

Selected partners

National Laboratory of the Rockies · Mitsui Kinzoku · TDK Corporation · Nissan Technical Centre Europe · QinetiQ · Max Planck Institute of Colloids and Interfaces

Scan to connect





FPR ENERGY

Delivering world-leading particle-based technology to capture, store and deliver on-demand zero-emission heat up to 850°C

FPR Energy is scaling particle-based concentrated solar thermal (CST) and electro-thermal energy storage (e-TES) systems, underpinned by decades of research from CSIRO, which retains a significant shareholding. The particle technology operates at higher temperatures and is safer, cheaper and easier to operate and scale than existing and emerging renewable industrial heat technologies.

Thermal energy accounts for around 70% of global industrial energy demand and is overwhelmingly supplied by fossil fuel, while dispatchable high-grade heat and steam cannot be provided by solar PV or battery storage. FPR's CST plants concentrate sunlight via heliostats onto particles that store heat at 850°C for 16 hours, and its e-TES plants heat particles using cheap electricity such as curtailed renewables. A proprietary particle heat exchanger converts the stored heat into high-grade steam on demand.

A 1 MWt testing system, comprising a falling particle receiver and 400 heliostats, has operated at the CSIRO National Solar Energy Centre in Newcastle for five years. All key subsystems for a commercial 50 MWt CST system are finalising prototype testing, and FPR Energy is in advanced discussions with two large natural resource developers in Australia to supply emissions-free steam under multi-decade agreements.

850°C heat storage | **16 hrs** storage duration | **20+ yrs** CSIRO R&D | **1 MWt** test system

Sectors

Clean Energy

Key Capabilities

Renewables & Generation · Storage and Firming

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What FPR Energy delivers

On-demand heat, such as steam, supplied under long-term independent power producer (IPP) contracts, helping customers hedge against gas price volatility, supply risk and carbon pricing.

Foundation shareholders

CSIRO · Osaka Gas Co. Ltd · RFC Ambrian

Scan to connect





WAVEX

Ocean renewable energy technology delivering reliable, clean and affordable utility scale power to coastal grids and industries

WaveX specialises in the development of utility-scale wave energy systems using proven offshore technologies and decades of marine project delivery expertise. Its patented D-Spar ocean energy converter combines proven offshore structures with a power capture system containing no electrical or mechanical underwater moving parts. By adapting established offshore engineering practices to ocean renewable energy, WaveX aims to accelerate commercial deployment while reducing technology, construction and operational risk.

Utilities, industrial facilities, island communities and remote operations need reliable low-emission electricity, yet solar and wind generation can be intermittent and often depend on energy storage, backup generation or diesel fuel. The modular D-Spar is deployed offshore in energetic wave climates, converting the motion of ocean waves into utility-scale electricity delivered through conventional electrical infrastructure — a predictable source of renewable power that complements wind and solar and supports grid stability.

The technology has been validated through 1:100 tank testing, 1:40 river testing and numerical modelling with the University of Western Australia, with results showing strong correlation to predicted performance, and has received a Statement of Feasibility from OWC (ABL Group). A fully funded 1:4 scale pilot is under construction in Henderson, WA, for deployment offshore Albany in Q4 2026, advancing the D-Spar from TRL 5 to TRL 7, with a 10 MW grid-connected demonstration planned as the next stage.

Quarter-scale pilot scale pilot | **TRL 5 7** Albany pilot | **10 MW** demonstration planned

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

Address

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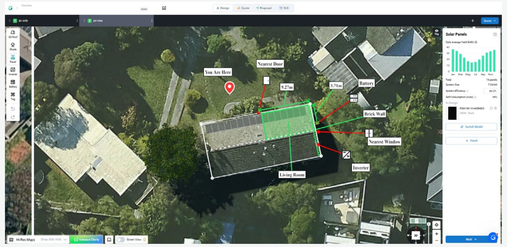
Website: **wavex.earth**
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What WaveX delivers

Utility-scale wave energy systems through equipment supply (OEM), project development partnerships, technology licensing and EPC-style delivery support, together with ongoing operations and maintenance services.

Scan to connect





OSW (One Stop Warehouse)

Clean energy product distribution and software development to improve supply chain efficiencies

OSW is Australia's leading distributor of renewable energy technologies, with a 13-year track record locally and an increasing global footprint across four continents. Beyond product procurement, it improves efficiency across the value chain: GreenSketch, its SaaS platform, makes lead generation and design faster for installers, while GreenDeal makes financing and certifications seamless.

Solar installers face costly, fragmented processes for selling and delivering residential solar. Even as hardware costs fall globally, customer acquisition, design, permits, administration and supply-chain management remain significant, and disconnected tools duplicate data and slow projects. OSW connects sourcing, technology and fulfilment in one integrated ecosystem to reduce complexity and improve productivity.

GreenSketch's AI agent, Emily, combines satellite imagery, 3D roof reconstruction, large language models and solar installation data to automate rooftop assessment, system sizing, hardware selection and energy and financial modelling without an on-site visit, delivering more than 15% cost savings for installers. Officially launched in March 2026 and available across Europe, APAC and the Americas, it has more than 5,000+ registered users in Australia and has facilitated over 170,000 projects.

5,600+ GreenSketch users | **170,000+** projects | **A$2 billion+** revenue across the Group

Sectors

Clean Energy

Key Capabilities

Renewables and Generation · R&D and Innovation

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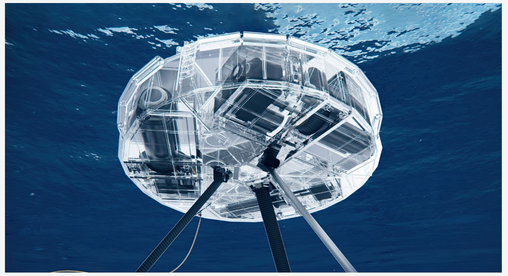
Website: **osw.energy**
LinkedIn: **linkedin.com/company/onesimpleway**

What OSW delivers

Free solar design SaaS and lead generation, clean energy product procurement, compliance, and financing support.

Scan to connect





CARNEGIE CLEAN ENERGY

Leading wave energy technology that delivers grid-scale electricity without impacting ocean views

Carnegie Clean Energy is a globally recognised leader in wave energy technology development, with offices in Australia and Spain. Its CETO technology converts open-ocean wave motion directly into grid-ready electricity, leads the world in power output, produces night and day, and operates beneath the surface so it does not impact the view.

Electricity buyers and grid operators need more renewable generation without adding proportionate storage, fossil-fuel backup and transmission capacity. Wind and solar output can fall at the same time or seasonally, while wave energy is more consistent, predictable and winter-weighted — modelling for Portugal found that 1 GW of wave energy could reduce fossil-fuel dispatch by 16.7%, annual emissions by 16.4% and dispatch costs by €230 million.

CETO uses a fully submerged buoy with three moorings and all-electric rotary power take-offs, with AI-based control that adapts to individual waves to maximise energy capture and protect the system in harsh seas. The 1 MW commercial design targets a 30–50% capacity factor. Earlier CETO units operated offshore Western Australia for more than 14,000 cumulative hours, supplying electricity and freshwater for the Australian Department of Defence, and the current ACHIEVE programme is progressing toward staged deployment at BiMEP in Spain from late 2026.

14,000+ hrs offshore | **1 MW** design | **30–50%** capacity factor | **€3.75M** EuropeWave contract

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What Carnegie delivers

Supply of CETO wave energy systems and related spin-off products, system integration and engineering services, spares and operations-and-maintenance expertise, and control-system and software upgrades, with Carnegie acting as technology developer and systems integrator from design through deployment and operation.

Selected clients

EuropeWave Buyers Group · European Commission · Blue Economy CRC · Department of Defence

Scan to connect





TINDO SOLAR

Australian-made solar panels, manufactured using a zero-defect process for reliable global clean energy

Tindo Solar is Australia's only solar panel manufacturer, combining Australian engineering, rigorous quality control and scalable production. Its high-performance modules are made using automated production and zero-defect quality processes, giving customers supply-chain visibility and a reliable alternative to concentrated offshore supply.

Clean energy developers and buyers face growing demand for high-quality, durable solar modules while global supply chains remain concentrated and exposed to disruption, quality variability and price fluctuations. Tindo provides an Australian-made alternative built to endure some of the world's most volatile climates, helping strengthen the resilience of clean energy projects.

With more than 15 years of Australian manufacturing experience, Tindo's capability spans automated module production and advanced N-type solar technology. At the Desert Knowledge Australia Solar Centre in Alice Springs, Tindo modules have operated under monitored conditions since 2016, and after nearly a decade of extreme heat, dust and UV their normalised output on a typical day significantly exceeds both the site average and tracked premium imported modules. In 2025 Tindo secured A$34.5 million in ARENA funding to expand capacity to 180 MW a year, including feasibility work towards a 1 GW-scale facility.

15+ yrs Australian manufacturing | **A$34.5M** ARENA funding | **180 MW** annual capacity target

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What Tindo delivers

Australian-made, certified high-performance N-type solar PV modules for commercial, industrial and large-scale projects, supplied through direct module supply and export agreements with product specifications, technical documentation, quality assurance and manufacturing traceability.

Selected clients

Greentech (MMEM) · AC Solar Warehouse · One Stop Warehouse (OSW) · DPA Energy

Scan to connect





Solahart®
HOT WATER Free FROM THE SUN®

SOLAHART

Solahart manufactures solar hot water and heat pump water heaters and distributes solar PV and battery systems

Solahart is an Australian solar pioneer specialising in solar water heating, heat pump water heating, solar PV and battery storage for residential and commercial customers. With more than 70 years of experience manufacturing renewable water heaters, it combines a national installation footprint with a presence spanning 70 countries.

Solahart is the renewable arm of Rheem Australia Pty Ltd. Rheem is a well-established water heating brand in Australia and also has energy-saving water heating appliances such as solar hot water, heat pumps for domestic hot water, and pool heat pumps.

Homes and businesses face rising energy costs and pressure to reduce carbon emissions. Solahart delivers renewable energy and energy-efficient water heating that lowers costs, cuts emissions and improves energy independence, supported by a nationwide network of locally owned and operated dealers and central engineering, manufacturing and technical teams.

Solahart has installed more than 1.5 million hot water systems worldwide and over 1.4 million solar panels across Australia. Its technologies are proven across residential, commercial and government applications, including a system of 916 collectors delivering 136,000 litres a day at New York University Abu Dhabi, 3,328 collectors delivering 605,000 litres a day on Saadiyat Island, and a Sun City Resort pool heating solution in South Africa saving 3.6 GWh a year.

70+ yrs manufacturing | **1.5M+** hot water systems | **1.4M+** solar panels in Australia

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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Brisbane · Melbourne · Adelaide · Perth

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What Solahart delivers

Solar water heating, heat pump water heating, solar PV and battery storage solutions, including equipment supply, system design, installation through authorised partner networks, technical support, training and after-sales service for distributors, dealers, project developers and commercial customers.

Selected projects

New York University Abu Dhabi · Saadiyat Island, Abu Dhabi · Sun City Resort, South Africa · Hotel Costa Verde, Sicily

Scan to connect





TEM

TASMAN ENVIRONMENTAL MARKETS

ACCU and carbon credit procurement and advisory that makes emissions-liable companies compliant

Tasman Environmental Markets (TEM) is the largest supplier of Australian Carbon Credit Units (ACCUs) to the Australian voluntary market, holding more than 25% market share. Since 2014, TEM has financed more than 300 carbon projects across 30 countries, delivering more than 15 million tonnes of verified emissions reduction.

Safeguard Mechanism facilities face baselines declining by roughly 4.9% a year to 2030, forcing repeated choices between costly abatement, ACCU purchases, or exceeding their limit and risking regulatory penalties, while voluntary-market buyers face reputational and greenwashing risk if their credits do not hold up under scrutiny. Sourcing credible credits at scale, verifying project integrity and timing purchases against price volatility is a specialist task most corporate sustainability teams are not resourced to do in-house.

TEM sources and structures ACCU and carbon credit portfolios matched to each company's compliance obligations or voluntary targets. Every project it sources credits from undergoes TEM's own due diligence — reviewing developer governance, quality and social and political risk beyond registry requirements — and clients receive registry-verified retirement certificates as proof of surrender. TEM also operates BlueHalo, a proprietary platform that embeds carbon offsetting into e-commerce checkouts and travel and freight booking flows, and TEM Online Enterprise, a marketplace for orders from 50 to 50,000 units.

25%+ voluntary ACCU market | **300+** projects financed | **30** countries | **15M t** emissions reduced

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What TEM delivers

ACCU and international carbon credit supply, spot or structured, from 50 to 50,000+ units; corporate offset portfolio advisory; carbon project development and investment through co-investment, offtake or bespoke development; and the BlueHalo carbon management platform for travel and freight companies.

Scan to connect





LAAWUN ENERGY SOLUTIONS AUSTRALIA

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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Scan to connect

LAAWUN ENERGY SOLUTIONS

Powering energy independence across Australia

Laawun Energy Solutions is an Aboriginal-owned and female-led business holding exclusive rights across Australia and New Zealand for the Archimedes Rooftop Wind Turbine, an innovative spiral wind system engineered for efficient, low-noise renewable generation. Its integrated hybrid systems combine wind, solar and battery technology for residential, commercial, industrial and remote applications.

Many homes, businesses and remote operations face power poverty, unreliable supply, diesel dependence and rising electricity costs. Laawun designs renewable energy systems tailored to each site, combining technologies to improve reliability, reduce operating costs and increase long-term energy independence — from lower bills and backup power for homeowners to reduced diesel reliance for mining, agricultural and remote operations.

The Archimedes turbine captures multidirectional airflow, operates quietly at under 43 dB, performs efficiently in variable conditions and is designed to be bird- and bat-friendly, with a compact footprint. Because wind generation often increases when solar output falls — at night, in winter, during storms and in cloudy conditions — pairing it with solar and battery storage delivers more balanced year-round energy production.

< 43 dB operating noise | **3 m/s** minimum wind speed | **10 yrs** warranty

What Laawun Energy Solutions delivers

Archimedes Rooftop Wind Turbines, solar and battery storage, integrated into hybrid energy systems for residential, commercial and industrial, agricultural, and remote and mining applications.



Powertracer by enosi

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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ENOSI

Powertracer energy time-matching software, enabling electricity suppliers to create products that price renewables by source

Enosi's Powertracer leads the energy time-matching category beyond carbon certificates, matching renewable generation and consumption on a many-to-many basis and pricing each source individually. It enables electricity retailers to create lower-cost clean energy products for their customers while reducing their wholesale risk.

Customers want low-cost renewable energy, but because these sources are intermittent, retailers cannot pass through the lower cost without taking market risk, so consumers rarely see the benefit or shift demand to match supply. Powertracer matches generation with consumption every 30 minutes, provides price incentives to shift demand, returns matched savings directly on customer bills and reports attributable carbon savings.

Powertracer operates at scale in the UK, Italy, Singapore and Australia across seven energy retailers and more than 100,000 end customers, matching over 300 GWh of renewables a year. Some products shift up to 20% of demand into solar periods. Enosi won Italian energy company Plenitude's global "One to Zero" innovation challenge and supports its Adopt-a-Panel product, which has attracted more than 90,000 sign-ups, and in July 2025 was certified by UK market operator Elexon as an Exempt Supply Notification Agent.

100,000+ end customers | **300 GWh+** matched a year | **7** retailers | **20%** demand shift

What Enosi delivers

Energy time-matching and pricing SaaS for retail suppliers, delivered through simple integration with billing and metering systems and a per-meter monthly subscription, plus Exempt Supply Notification Agent services in the UK.

Selected clients

Evolve Energy (UK) · Plenitude (Italy) · Senoko Energy (Singapore) · Momentum Energy · Next Business Energy · SmartestEnergy · Clean Peak Energy · (Australia)



UNITED INNOTECH

Integrating biotech, AIoT, smart systems and renewable energy into mobile solutions for remote communities

United Innotech is a net zero solution provider whose I-BASE approach integrates biotech, AIoT, smart systems and renewable energy. Its focus is mobile, modular solutions that reduce logistics costs for off-grid and remote areas — supplying power, water and building materials.

All equipment is installed in shipping containers to create mobile solutions that can be deployed where customers need them. The company's stated offering spans DIY safe mobile solar and battery systems, circular zero-carbon solutions, power and water solutions for AI data centres, mobile green recycling, and mobile hydrogen generation, charging and storage.

United Innotech demonstrated its solution at the 55th Pacific Islands Forum in Palau and plans to establish solar and battery assembly and maintenance capability in Palau.

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

What United Innotech delivers

Manufacturing, assembly and maintenance of mobile, containerised renewable energy and resource solutions.

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KARDINIA ENERGY

KARDINIA ENERGY

A lightweight printed solar platform for scalable deployment across mobile, temporary and built-environment energy markets

Kardinia Energy is pioneering ultra-lightweight printed solar technology that combines high specific power of 133 W/kg, full recyclability and freedom from critical minerals in a single platform that can be rapidly deployed. Its flexible modules are less than 1 mm thick and weigh under 300 g/m², compared with 15–20 kg/m² for silicon panels.

Many operating environments remain poorly served by conventional solar, where speed of deployment, weight, flexibility and logistics define adoption. Kardinia's modules need minimal structural support, integrate with existing grid, battery and temporary power systems, and can be deployed where weight, logistics or installation time are barriers — reducing diesel dependence, energy costs and emissions, and using sites and structures conventional solar cannot economically serve.

Over the past two years Kardinia has collaborated with Coldplay on the Music of the Spheres World Tour across 25 countries, showcasing printed solar at large-scale live events. Modules are recyclable through Kardinia's proprietary low-cost recycling process, and the company, supported by more than A$4.4 million in NSW and Australian Government grants, is transitioning from pilot-scale production to commercial manufacturing, with next-generation products scheduled from its new facility in 2027.

133 W/kg specific power | **< 300 g/m** weight | **25** tour countries | **A$4.4M+** grants

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

What Kardinia Energy delivers

Lightweight, fully recyclable printed solar platforms combined with standard balance-of-system components, integrated with other energy sources to maximise green energy production on infrastructure that may otherwise be unused due to load-bearing or other limitations.

Selected clients

Coldplay — Music of the Spheres World Tour

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WESTWIND ENERGY

Onshore wind energy and battery storage developer in Australia

WestWind Energy is one of Australia's leading onshore wind energy developers, with more than 20 years of experience taking large-scale projects from early-stage development through complex planning, approvals, community engagement and investment readiness. Every project for which it has received approval is now operating, including Golden Plains Wind Farm — the largest operational wind farm in the Southern Hemisphere.

Australia needs significantly more renewable generation to meet growing electricity demand, replace retiring coal generation and support the electrification of industry. WestWind solves the difficult, high-risk problem of turning early-stage opportunities into investment-ready projects by securing land, grid access, planning and environmental approvals, community support and commercially viable designs — reducing development risk, delays and uncertainty for investors, offtakers and energy consumers.

WestWind developed Mt Mercer Wind Farm (131 MW), Lal Lal Wind Farm (228 MW), Moorabool Wind Farm (360 MW) and Golden Plains Wind Farm, where Stage 1 of approximately 756 MW is now operational as part of a broader 1,333 MW development. Its current pipeline includes multi-hundred-megawatt and gigawatt-scale projects across Victoria, New South Wales and Queensland, using long-term wind monitoring, energy yield assessment, grid studies and geospatial analysis to progressively reduce technical, environmental, planning and commercial risk.

20+ yrs wind development | **1,333 MW** Golden Plains | **~756 MW** Stage 1 operating

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What WestWind delivers

Renewable energy project development and co-development services, from site identification to investment-ready and construction-ready status, including Australian market entry, local development partnerships, land and approvals management, grid and technical coordination, community and government engagement, and access to a pipeline of utility-scale wind and hybrid projects.

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GLOBAL GREENS

Solar power systems that cut Australian energy bills, installed, financed and warrantied end to end

Global Greens delivers end-to-end solar solutions, from remote off-grid systems to megawatt-scale commercial installations, as a Clean Energy Council-accredited installer and approved retailer. Its in-house specialists handle site onboarding, custom power system design, remote monitoring and tailored software, adapted to each customer's load and site conditions.

Remote and industrial site operators face unstable power supply, rising energy bills and costly service delays, with off-grid or grid-fringe sites able to lose 20–30% of productive hours each year to outages and slow on-site maintenance. Global Greens deploys customised off-grid and hybrid power systems matched to each site's load profile, paired with remote monitoring of voltage, load and equipment health, so engineers can diagnose and resolve issues remotely or dispatch a technician before failure occurs.

The company has deployed systems across Australia, India and the Pacific Islands, commissioning megawatts of storage capacity across more than 200 commercial sites and thousands of residential installations. A commercial customer in the Solomon Islands is saving approximately 90% on energy costs with a payback period of under 2.5 years, and Global Greens is delivering projects for Taumeasina Island Resort in Samoa, with further contracted work underway in Samoa, Papua New Guinea and the Solomon Islands.

200+ commercial sites | **~90%** energy cost saving | **< 2.5 yrs** payback

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What Global Greens delivers

End-to-end EPC delivery of off-grid and hybrid power systems — design, equipment supply, installation and commissioning — with subscription-based remote monitoring and maintenance, standalone design and consulting engagements, and equipment supply for partners with in-house installation capability.

Selected clients

Heritage Park Hotel, Honiara (Solomon Islands) · Taumeasina Island Resort (Samoa)

Scan to connect





ENTURA

Entura delivers sustainable power and water solutions through engineering, strategy, design, delivery and training

Entura combines asset-owner experience with consulting expertise. As part of Hydro Tasmania, and backed by more than a century of owning and operating renewable energy assets, it delivers practical renewable energy and water solutions grounded in real-world outcomes — solutions others can only advise on.

Energy and water asset owners face rising pressure to improve reliability, reduce emissions and justify major investment decisions, often while managing complex, ageing infrastructure. Getting it wrong can mean project delays, unplanned outages, higher operating costs, regulatory risk and missed clean energy targets. Entura combines strategy, engineering, environmental expertise and project delivery across the full asset lifecycle to identify risks early and optimise designs and operations.

Entura applies more than 100 years of renewable energy asset ownership and operational experience to consulting, engineering and project delivery, and has helped clients across more than 40 countries develop, optimise and manage power and water infrastructure. It works across hydropower, pumped hydro, wind, solar, battery energy storage, transmission, water infrastructure and asset management.

100+ yrs asset-owner experience | **40+** countries

Sectors

Clean Energy

Key Capabilities

Renewables and Generation · Energy Systems and Management · Storage and Firming

What Entura delivers

Consulting and engineering services, owner's engineer roles, project delivery support, strategic advisory, operational improvement programs, training and renewable energy development services, helping clients plan, design, deliver and optimise critical power and water assets.

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EKISTICA

Regional and remote Australia's leading advisory and technical consultancy firm

Ekistica provides technical knowledge and expertise for the development of regional and remote area infrastructure. Established in 2007 by its parent, the Indigenous-controlled not-for-profit Centre for Appropriate Technology, it has operated from Central Australia for 19 years, with a team of more than 30 project managers, engineers, data analysts and planning and commercial specialists.

Its work is framed by a practical understanding of the relationship between people, place and technology: the consumers of a technical solution may be different from its customer, and how people take up a solution is as critical as the technology itself. Advisory services span renewable power, water, remote infrastructure and environment, with analytics, community engagement, design engineering and project management across all four.

Ekistica's work has been recognised as outstanding by Engineers Australia eight times since 2007, including the Sir William Hudson Award, the highest accolade Engineers Australia confers on a project. Its multidisciplinary teams have delivered more than AUD $1 billion of greenfield infrastructure projects since 2021 and advised on a further AUD $6 billion of investment. It is B Corp certified.

$1bn+ projects delivered since 2021 |
$6bn investment advised | **8** Engineers Australia awards

Sectors

Clean Energy

Key Capabilities

Renewables and Generation · Storage and Firming · Energy Systems and Management

What Ekistica delivers

Professional consultancy and technical advisory across renewable power, water, remote infrastructure and environment, including analytics, community engagement, design engineering and project management for governments, utilities, investors and community organisations.

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Social Impax

SOCIAL IMPAX

Specialist social impact advisory for infrastructure, energy and development projects in the Asia Pacific

Social Impax is a social impact advisory business supporting organisations that are leading the transition to renewable energy, delivering community benefits and driving development innovation. Its core services span social impact technical advice; gender, equity, social inclusion and safeguards; social impact assessment and community benefits; monitoring and evaluation; and training.

Expectations around the social and community aspects of energy and development projects are increasing. Alongside managing social licence risks, funders and approval processes require social due diligence and safeguarding to show that projects deliver meaningful community benefits. Social Impax helps organisations understand social requirements, manage social risks and implement social impact management plans that meet regulatory requirements and deliver benefits to host communities.

Social Impax has completed more than 70 client engagements across Australia and the Asia Pacific. Its work includes the midterm review of the community benefits pilot associated with the Tina River Hydropower project in the Solomon Islands, shortlisted for a 2022 SIMNA Award; gender and social safeguards support for governments and multilateral organisations in the Pacific; social impact and community benefits advisory for Powerlink and CS Energy; and an evaluation of the CRC TiME research program.

70+ client engagements

Sectors

Clean Energy

Key Capabilities

Renewables and Generation · Community Mine · Storage and Firming

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What Social Impax delivers

Consulting, advisory and technical assistance across social impact assessment, community benefits, gender, equity, social inclusion and safeguards, monitoring and evaluation, and social impact training.

Selected clients

Asian Development Bank · Lendlease · CS Energy · Powerlink Queensland · Government of Solomon Islands · Ministry of Health Tonga · International Women's Development Agency · CRC TiME

Scan to connect





ATEC

ATEC

IoT electric cookstoves that cut household smoke and generate data-verified carbon credits

ATEC pioneers 100% data-verified digital monitoring, reporting and verification (dMRV) for clean cooking, integrating patented IoT electric cookstoves with mobile finance. It was the first clean cooking developer globally to register under the Gold Standard metered methodology and to secure an Article 6.2 national project, with carbon-linked financial incentives routed directly back to the households that generate them.

Around 2.3 billion people rely on unclean cooking fuels, exposing women and children to toxic indoor PM2.5 that contributes to 3.2 million premature deaths a year. At the same time, traditional cookstove carbon projects have been criticised for over-reporting their climate impact. ATEC's Global-SIM-enabled induction stoves eliminate indoor PM2.5 emissions and save households up to three hours a day, while each stove tracks real-time electricity use to verify carbon abatement.

ATEC has distributed more than 55,000 smart stoves across more than 10 countries in Asia and Africa, reaching nearly 300,000 people, with each stove generating an average of two tonnes of carbon credits a year from two hours of daily cooking. Its infrastructure underpins active compliance carbon projects in Bangladesh (90,000 stoves), Malawi (76,000 stoves, Article 6.2) and Nepal (10,000 stoves), with "Cook-to-Earn" mobile money integrations routing carbon revenue to users.

55,000+ smart stoves | **10+** countries | **~300,000** people reached | **~2 t** credits per stove a year

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What ATEC delivers

High-integrity Article 6.2 ITMOs and Gold Standard carbon credits generated through its real-time dMRV architecture, and direct procurement of patented IoT eCook stoves packaged with induction-ready cookware sets designed to support a lasting shift to electric cooking.

Selected clients

ENGIE · KliK Foundation · myclimate

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futurevalue
REGENERATIVE DEVELOPMENT

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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FUTURE VALUE GLOBAL

Regenerative development projects unlocking climate finance and nature-positive returns in underserved SEAPac markets

FutureValue designs, finances and delivers place-based regenerative energy projects in underserved markets. Its standout capability is structuring and implementing community-owned off-grid solar and battery microgrids that provide productive-use power for long-term local energy independence — demonstrated in Papua New Guinea's first such system, in a remote riverine community.

Remote Pacific and South-East Asian communities and institutions pay high prices for unreliable diesel power, with outages disrupting health clinics, schools and local enterprise. FutureValue tailors each microgrid to local demand and integrates productive-use loads such as institutional cooking, cold storage and enterprise, generating commercial revenue that funds long-term operations and maintenance and reduces donor dependency.

In remote Kikori District, PNG, FutureValue delivered a 28.6 kWp solar array, 48 kWh battery, 20 kVA inverter and village network connecting 20 households, with productive-use facilities and digital connectivity. The system was switched on in February 2026 and handed over in March 2026 to PNG's first community-owned energy cooperative, which operates it with weekly household payments. A staged electrification strategy covers seven surveyed villages and two assessed hospitals across the district.

28.6 kWp solar | **48 kWh** battery | **20** households connected

What FutureValue delivers

End-to-end delivery of community-owned off-grid solar and battery microgrids — site assessment, community co-design, systems engineering, procurement, logistics, installation, commissioning and handover — plus feasibility studies, community-ownership governance design and replication strategies for multi-village or district-scale rollouts.



smec
an SJ company

Sectors

Clean Energy

Key Capabilities

Renewables and Generation · Storage and Firming · Energy Systems and Management

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Scan to connect

SMEC

Engineering renewables, hydropower, battery storage, transmission and grid solutions enabling decarbonisation and energy security

SMEC integrates generation, storage and network infrastructure into coordinated energy systems that are technically robust, commercially viable and ready for delivery. Its multidisciplinary teams combine strategic advisory, specialist engineering and digital expertise across renewable generation, hydropower, battery storage and transmission, giving clients a single partner from concept through operation.

Renewable energy projects can face years of delay and millions of dollars in additional cost from grid connection constraints, transmission bottlenecks, approval complexity and delivery risk. SMEC applies integrated power systems analysis, specialist engineering and digital delivery tools to identify constraints, optimise network connections and improve constructability before major investment decisions are made.

SMEC delivers renewable energy and power infrastructure at utility scale across Australia, Asia, Africa and the Pacific. Recent projects include the 520 MWac Stubbo Solar Farm in New South Wales and the 380 MWac Aldoga Solar Farm in Queensland, and SMEC has supported the Australia Asia PowerLink, which links up to 17–20 GWp of solar generation, up to 42 GWh of battery storage and approximately 4,200 km of HVDC transmission between Australia and Singapore.

33.6 GW solar | **25 GWh** storage | **20 GW** hydro | **30,000+ km** transmission and distribution

What SMEC delivers

Renewable energy development support, owner's engineer and developer advisory, energy transition strategy, grid connection and power systems studies, transmission and distribution engineering, BESS and pumped hydro design, dam and hydropower design and rehabilitation, digital engineering, and construction supervision and project management.



JET ZERO

Developing Australian-made sustainable aviation fuel and renewable diesel from domestic feedstocks

Jet Zero is Australia's most advanced and diversified sustainable aviation fuel (SAF) developer, progressing two commercial-scale projects while working across the full value chain from domestic feedstock to port infrastructure. It takes proven, scaled biofuel production technologies and develops its projects through its own capital-efficient delivery platform.

Aviation and heavy transport are hard-to-abate sectors where batteries cannot match the energy density engines need, so liquid fuel remains the only viable option for the foreseeable future. Qantas alone will need around 600 million litres of unblended SAF a year to reach its 10% target by 2030, yet Australia has no commercial SAF production at scale and imports about 90% of its jet fuel.

Project Ulysses in Townsville uses LanzaJet's Alcohol-to-Jet technology and is designed to produce about 113 million litres a year. It is in FEED ahead of final investment decision, with Technip Energies as engineering partner, environmental approval secured in 2025 and about $75 million committed to engineering and early works. Project Mandala in Gladstone targets about 402 million litres a year using the HEFA pathway. Qantas, Airbus, Idemitsu Kosan and POSCO International are strategic investors.

113M L a year, Ulysses | **402M L** a year, Mandala | **$75M** committed to date

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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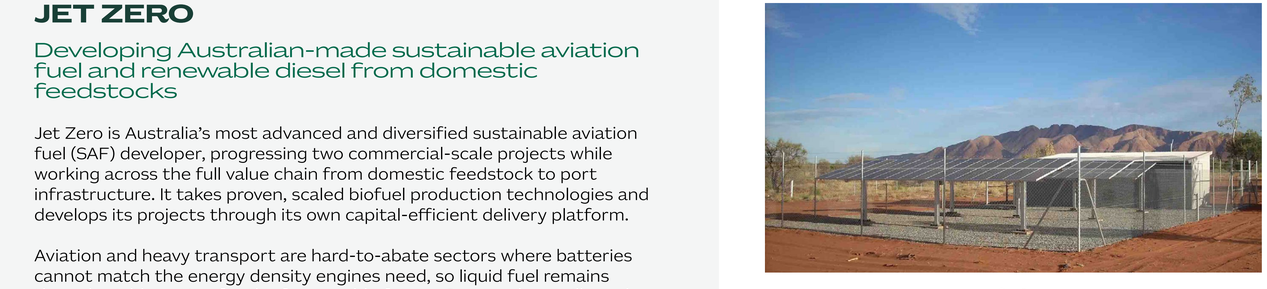
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What Jet Zero will deliver

SAF and renewable diesel from domestic feedstocks for aviation, marine, mining and defence operators and government buyers, plus advisory services to third-party projects on biorefinery development, port and storage infrastructure and feedstock strategy. Projects are in development, not yet in commercial production.

Scan to connect



EPC RENEWABLES

Engineering-led solar and battery solutions that reduce energy costs

EPC Renewables is one accountable, engineering-led team that designs, builds, commissions and maintains commercial and utility-scale renewable energy projects across Australia and the Pacific. It specialises in solar PV, battery energy storage systems (BESS), microgrids and hybrid energy solutions, with a complete service from feasibility studies and financial modelling through to monitoring and ongoing asset support.

Commercial and utility-scale facilities face rising energy costs, peak demand charges, grid reliability risks and emissions obligations. EPC Renewables assesses each site's energy profile, then designs, engineers, constructs and maintains an integrated solution that lowers electricity costs, improves energy security and delivers long-term operational and sustainability benefits through a single accountable delivery partner.

Projects have been delivered at commercial and utility scale, including over 1.5 MW of solar PV across multiple facilities and renewable energy projects supporting commercial, industrial, infrastructure, mining and remote community applications. The technology is commercially proven and deployed across Australia, and the company is active in Fiji and the wider Pacific region.

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What EPC Renewables delivers

End-to-end EPC delivery of solar PV, BESS, microgrid and hybrid energy projects — feasibility studies, energy modelling, engineering design, equipment procurement, construction, commissioning, monitoring and ongoing operations and maintenance — for commercial, industrial, infrastructure, mining, agricultural and utility-scale applications.

Scan to connect



PILBARA SOLAR

Delivering large-scale renewable energy projects embedding First Nations partnerships

Pilbara Solar is an Aboriginal-owned renewable energy developer and advisor, working with First Nations groups, industry and government to decarbonise energy, create lasting value and enable First Nations participation on Country. It develops its own projects, and supports clients in delivering large-scale renewable energy projects, from origination through to investment-ready stage.

The company secures land access and tenure, navigates government approval processes, structures governance and equity models, progresses grid and network connection, secures project offtake through power purchase agreements and prepares projects for investment or transaction. Across all its projects it prioritises cultural heritage protection and ensures First Nations communities share in the long-term benefits, including equity ownership.

Pilbara Solar has recently sold its first major project, a 10 MW solar farm, to an investment and delivery partner, achieving a 10% equity share for the community. It has also delivered multiple land studies and feasibility reports to First Nations groups seeking to develop renewable energy projects on their land, and is preparing a public report on its work with First Nations communities for the Pilbara Development Commission.

10 MW solar farm sold | **10%** community equity share

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

What Pilbara Solar delivers

Project feasibility, First Nations partnerships and co-development, project design, land security and access, approvals, stakeholder engagement, commercial and investment structuring across solar, wind, battery and hybrid technologies, and project management.

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Scan to connect





CQSOLA

Industrial solar power control that connects solar panels directly to loads, for safer solar farms

CQSola has developed technology that connects loads directly to the solar panel, including direct solar-to-hydrogen and solar-to-motor applications and any other load. Its power controllers, mounted under the panels, create the conditions to run a motor, and CQSola couples a motor and generator together to replace the inverter, giving much better grid stability.

Mine operators have to buy synchronous condensers and bring in upstream diesel for their microgrids, with very little visibility of remote-site diagnostics and operations. Connecting loads directly from the panel reduces diagnostic load, makes solar farms much safer and enables faster and less expensive grid connections.

CQSola power controllers under the panel are currently being tested in two solar farms overseas, with two tier-1 solar farm owner-operators, one in India and one in Europe.

What CQSola delivers

Equipment sales — the CQSola power controller, 1500V DC isolator and Commsunit, and the CQSola Solar Generator — plus the CQSola Analytics data service, which collects and displays one-second data on solar panels and equipment.

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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STARCHARGE

EV charging and energy storage manufacturer, and renewable project co-investor

StarCharge describes itself as the world's largest EV charging manufacturer and is an experienced renewable energy project co-investor. Beyond equipment supply, it integrates large-scale battery energy storage, EV charging and smart energy management, and can co-invest in renewable energy and storage projects.

Data centre developers face increasing power constraints, long grid connection timelines and high upfront energy infrastructure costs. StarCharge helps accelerate time-to-power through integrated battery storage and smart energy solutions that overcome power constraints, improve reliability and reduce peak grid demand, while its co-investment capability can reduce upfront capital requirements and support project delivery.

StarCharge has deployed more than 3.5 million EV chargers globally, including more than 700,000 public charging points across over 70 countries and regions, and provides commercial-scale battery storage, power conversion systems and energy management solutions backed by more than 1,400 R&D engineers. Its portfolio includes 5 MWh liquid-cooled storage solutions with at least 94% round-trip efficiency, and storage supporting a 2.38 GW renewable energy project in Tongliao, China.

3.5M+ EV chargers deployed | **70+** countries and regions | **1,400+** R&D engineers

Sectors

Clean Energy

Key Capabilities

Renewables and Generation

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What StarCharge delivers

Utility-scale battery storage and EV charging equipment supply, integrated energy storage solutions, energy management systems and smart energy management, project co-investment and EPC delivery support.

Scan to connect



1414 DEGREES

Silicon battery materials and thermal storage systems that boost energy density and cut industrial emissions

1414 Degrees specialises in developing and commercialising silicon-based technologies for energy storage and conversion. Its core capability is engineering silicon to perform across three demanding applications: higher-energy-density battery materials, industrial heat storage at temperatures up to 1,000°C, and low-emissions hydrogen production.

Industrial customers need to cut emissions without sacrificing process heat, battery manufacturers need greater energy density without impractical manufacturing complexity, and hydrogen producers need lower-emissions production pathways. SiNTL™ increases battery anode capacity, SiBox® stores renewable electricity as high-temperature heat for industrial processes, and SiPHyR® uses that stored heat to produce hydrogen from methane without direct combustion.

SiBox® has been developed and tested with support from Woodside Energy Technologies, which has contributed more than $3 million, demonstrating controllable heat delivery from approximately 200°C to 1,000°C, including repeated thermal cycling. SiNTL™, developed under an exclusive global licence from George Washington University, is a drop-in anode material requiring no re-tooling and has demonstrated 550 mAh/g, targeting 600 mAh/g. SiPHyR® prototype testing has demonstrated methane conversion above 70% at approximately 1,000°C, with TRL 5 targeted in 2027.

1,000°C heat storage | **550 mAh/g** anode | **>70%** methane conversion | **$3M+** Woodside

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Hydrogen, ETS and Emerging Fuels

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What 1414 Degrees delivers

Equipment supply, materials supply, licensing and Heat-as-a-Service — SiBox® high-temperature thermal storage systems, SiNTL™ silicon anode material for battery manufacturers and cell developers, and SiPHyR® methane-pyrolysis hydrogen technology for future licensing and industrial integration.

Selected clients

Woodside Energy Technologies · Energia-2000 · Orbit Boy · Space Industries

Scan to connect



VOLTAVATE

Battery separator technology for cell makers: up to 2x cycle life, improved safety, lower scrap

Voltavate forms the battery separator — the safety-critical layer between the electrodes — directly on the electrode within the cell maker's production line, rather than supplying it as a separate film. As Australia's only manufacturing-integrated battery separator platform, it enables in-house separator production that reduces waste, cost and reliance on externally supplied films.

Battery manufacturers are under pressure to make cells safer, longer-lasting and cheaper to produce, but conventional separators are made as standalone films and inserted during assembly, adding handling, alignment, scrap and cost while leaving manufacturers reliant on external suppliers. Voltavate integrates separator formation into electrode manufacturing using a proprietary combination of materials, process know-how and equipment.

Its nanofiber layer replaces the conventional standalone film without changing cell chemistry. At TRL 4 and operating on a custom-built lab-scale production line in Melbourne, the technology has been validated in coin and single-layer pouch cells against commercial separator controls, demonstrating 25% lower internal cell resistance, lower resistance growth after 200 cycles, stronger fast-charge performance and dimensional stability up to 220°C. Single-layer pouch cells have completed 500-cycle testing, and progress toward TRL 6 pilot validation is supported by a A$3.55 million ARENA grant and a completed Bosch manufacturing scale-up assessment.

25% internal resistance | **220°C** stability | **500** cycles tested | **A$3.55M** ARENA grant

Sectors

Clean Energy

Key Capabilities

Storage and Firming · R&D and Innovation

Address

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What Voltavate delivers

A separator manufacturing platform that integrates with a cell maker's existing electrode line, including equipment and process integration, ongoing supply of proprietary separator materials and technology licensing, offered through equipment purchase or lease with recurring fees linked to production volume.

Scan to connect



MAGELLAN POWER

Australian-made, high-reliability power conversion & energy storage systems for critical infrastructure, industry & remote users

Magellan Power specialises in high-reliability power conversion, energy storage and resilient power systems engineered for demanding applications. Its Australian-designed and manufactured solutions include industrial UPS, battery energy storage, standalone power systems, bidirectional inverters and hybrid power systems, backed by more than three decades of experience and in-house engineering, manufacturing, testing, commissioning and lifecycle service.

Critical infrastructure, mines, utilities and remote operations need reliable power where outages, weak grids and equipment failure can cause downtime, production losses and safety risks. Renewable-energy customers must also integrate intermittent solar and wind while maintaining stable, dispatchable power. Magellan addresses these challenges while reducing dependence on diesel generation, particularly in harsh, remote environments where serviceability and long-term support are critical.

Magellan has developed 100 kVA and 250 kVA bidirectional power-conversion modules designed for modular scaling to multi-megawatt applications, together with community battery platforms from around 100 kW/200 kWh to multi-MW/MWh configurations. Its systems operate across metropolitan, regional and remote Australia, including mining and utility applications in the Pilbara. The company is also advancing its 4R Battery Ecosystem — Repair, Refurbish, Repurpose and Recycle — to give suitable EV and stationary batteries a second life and recover materials at end of life.

30+ yrs Australian design & manufacture | **250 kVA** bidirectional modules | **Multi-MW** battery platforms

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Circular Economy · Sustainable Mining

What Magellan Power delivers

Equipment supply, custom engineering and complete system delivery — industrial AC/DC UPS, battery energy storage, standalone and hybrid power systems, bidirectional converters, battery chargers and frequency converters — with factory testing, commissioning, maintenance and lifecycle support.

Customers

Australian utilities · Tier-1 mining and resources companies · oil and gas operators · transport organisations · government agencies · critical-infrastructure operators

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Scan to connect





RUX ENERGY

Commercialising nanoporous MOFs for safer, efficient, low-cost hydrogen storage to compete with diesel and carbon fuels

Rux Energy stores hydrogen in solid state, adsorbed into highly porous metal organic framework (MOF) materials that store more gas at lower pressures of 20–30 bar and moderate temperatures. Its green MOF manufacturing process eliminates toxic chemicals and critical minerals while utilising mineral-processing waste.

Hydrogen users face prohibitively high storage and distribution costs, limiting adoption in transport, construction, maritime and off-grid power. Conventional high-pressure and liquid hydrogen systems require expensive infrastructure, consume significant energy and create complex safety and logistics challenges, adding $10–15/kg or more to the delivered cost of hydrogen. Rux Energy's integrated storage and distribution systems are designed to reduce end-to-end bulk storage and distribution costs to below A$2/kg.

Rux MOFs act like a sponge in the gas storage tank, operating at 12 to 25 times lower pressure than compressed hydrogen gas, with Rux targeting 10 times lower storage capex and five times lower opex. The solutions are at TRL 7. Rux Energy is scaling MOF manufacturing and deploying 1 kL, 2 kL and 20 kL/40 kL ISO tanktainers for certification trials in 2027, with commercial deployment in 2028, working with strategic Tier-1 partners across the maritime and construction sectors.

20–30 bar pressure | **TRL 7** readiness | **< A$2/kg** cost target | **2028** commercial launch

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Energy Systems and Management · Hydrogen, ETS and Emerging Fuels

What Rux Energy delivers

Bulk hydrogen storage solutions ranging from 1 kL forkliftable packs to 20 ft and 40 ft ISO tanktainers and on-vessel marine storage, together with high-efficiency cryochargers in an ISO box to support bunkering and refuelling for construction, maritime and trucking pilots.

Selected clients

Serco UK · EODev

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Scan to connect



VSUN ENERGY

Utility energy storage for networks, mining and data centres

VSUN Energy is the most advanced vanadium flow battery (VFB) developer in Australia, with intellectual property in key technology areas. It develops VFB projects for the data centre, utility and mining sectors by working with bankable, proven OEM partners and leveraging its own internal IP.

VSUN Energy's solutions support the fast and reliable development of power systems for data centres, mining and utility applications, enabling high renewable penetration and the ability to reduce and mitigate load volatility, as seen in hyperscale data centre facilities.

Vanadium flow batteries are a commercialised energy storage technology that offers great flexibility in long-duration and high-cycle applications. The technology is non-flammable and safe, and can cycle indefinitely without degradation of capacity or permanent damage. VSUN Energy has a project with Western Australian utility Horizon Power and a pilot with Water Corporation.

What VSUN Energy delivers

A fully wrapped energy storage solution, delivered as a capital sale or under a build-own-operate arrangement, ranging from low MWh to GWh and scalable to suit most loads and durations, with operational design life targeted to exceed 30 years and full recycling and reuse of components at end of life.

Selected clients

Horizon Power · Water Corporation

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Sustainable Mining

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Scan to connect





EKU ENERGY

Accelerating the energy transition by delivering safe, secure and reliable energy storage assets

Eku Energy develops, constructs and operates large-scale battery energy storage systems, working across the entire project lifecycle from origination and development through construction and long-term management. In a Joint Venture with Engie Australia, Eku Energy delivered Australia's first utility-scale battery energy storage system at the site of a decommissioned coal-fired power station, the Hazelwood BESS in Victoria.

As electricity systems age and electrification grows, grids need new sources of flexibility and security. Batteries charge when demand and prices are lower and discharge during peak demand, easing strain on the power system, reducing the need for costly grid upgrades and increasing the share of renewable energy. They also provide essential services such as frequency control, inertia and voltage support, and help networks absorb growing loads from electric vehicles and data centres.

Eku Energy has constructed and commissioned five battery systems in Australia and the United Kingdom with more than 700 MWh of capacity, and has three further projects of more than 800 MWh under construction across the UK, Australia and Japan. Its firsts include a BESS offtake with Tokyo Gas, a long-term toll in the UK with SmartestEnergy, and its first long-duration storage project, supported by an agreement with the NSW Government. Its pipeline totals 25 GWh across six markets.

1.2GWh commissioned | **310+ MWh** under construction | **25 GWh** pipeline | **6** markets

What Eku Energy delivers

Development and delivery of battery energy storage assets — full development services, EPC selection and construction management, grid engineering and supply-chain contracting — together with investment management, revenue contract origination, technology selection, and asset management and trading.

Selected clients

Tokyo Gas · Shell Energy Australia · ACT Government · NSW Scheme Financial Vehicle · Commonwealth Government Capacity Investment Scheme

Securing tomorrow's energy, today.

Sectors

Clean Energy

Key Capabilities

Storage and Firming

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Scan to connect





MGA THERMAL

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Renewables and Generation · Energy Systems and Management

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Scan to connect

MGA THERMAL

Thermal energy storage delivering low-cost, reliable renewable heat 24/7 to decarbonise heavy industrial operations

MGA Thermal converts low-cost renewable electricity into reliable, dispatchable industrial process heat. Its proprietary MGA Blocks, used within its electro-thermal energy storage (ETES) system, are purpose-engineered for thermal performance, long service life and a compact footprint, giving heavy industry a commercially viable pathway off fossil-fuelled heat without operational disruption.

Heavy industry depends on high-grade, continuous process heat, yet most of it still comes from costly, volatile fossil fuels, and intermittent renewables cannot support 24/7 operations without long-duration storage. The ETES system charges when electricity is cheapest, stores the energy in MGA Blocks and, during discharge, uses a nitrogen loop to deliver heat to a standard heat recovery steam generator — producing steam at 550°C with more than 93% efficiency and a 20-year block life.

A first-of-its-kind 5 MWh demonstration plant at Tomago, supported by $3.75 million from ARENA, was commissioned in April 2025. Over more than 12 months it logged 1,920 cumulative operating hours with 100% system availability, delivered 24 hours of continuous steam discharge at constant pressure and showed no measurable loss in block energy capacity. In May 2026 MGA Thermal began a front-end engineering design study for a 200 MWh ETES system at Tronox's titanium dioxide refinery in Kwinana, Western Australia.

5 MWh demonstration plant | **1,920 hrs** operation | **100%** availability | **200 MWh** FEED underway

What MGA Thermal delivers

ETES system design and manufacture of proprietary MGA Blocks as a specialist OEM, delivered as turnkey projects with global EPC partners, plus flexible commercial models including a zero-capex Heat-as-a-Service solution.

Selected clients

Tronox



NHOA ENERGY

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Energy Systems and Management · Zero Carbon Mine / Small Footprint Mine

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Scan to connect

NHOA AUSTRALIA

Battery and hybrid systems that support more renewable energy while reducing electricity prices

NHOA is a battery system integrator whose expertise has been built over 20 years of renewable energy and battery energy storage project delivery across 50 projects. It integrates a field-proven proprietary energy management system and plant controller with battery products and power conversion systems from tier-one manufacturers to deliver reliable, investment-grade clean energy solutions.

NHOA delivers projects on a full EPC basis with established balance-of-plant partners, complemented by long-term service agreements and guaranteed battery performance throughout the system's operational life. Its designs are developed to fully comply with statutory grid connection requirements, from fully wrapped turnkey EPC projects to split-scope delivery.

Recent work includes an EPC wrap, grid connection and integration of a 1 GWh battery for a leading developer's first true hybrid project, and a five-hour, Capacity Investment Scheme-backed battery hybridising a brownfield gas plant for one of Australia's four largest gentailers. NHOA has also commissioned the 477 MWh Blyth Battery in South Australia with Elecnor for Neoen.

20 yrs project delivery | **50** projects | **1 GWh** hybrid integration | **477 MWh** Blyth Battery

What NHOA delivers

Development, design, engineering, manufacture, delivery and servicing of battery energy storage systems, including a proprietary EMS, plant controller and overarching hybrid plant controller, full-EPC or split-scope delivery and long-term service agreements.

Selected clients

Synergy · Neoen · EnergyAustralia · Octopus · Engie · Eku Energy · Statkraft



BETTERFLEET

BetterFleet provides electric fleet solutions to simplify zero-emission transitions while optimising cost and efficiency

BetterFleet brings fleet planning, operations and charge management into one integrated platform. Its digital twin technology uses a virtual model to capture everything from vehicle physics and route topography to driver behaviour and grid constraints, delivering data-driven decisions that optimise charging operations in real time. More than 200 fleets use BetterFleet software and services.

Fleet operators cannot afford downtime. As fleets electrify, new complexity across vehicles, charging infrastructure, energy and operations creates greater risk to service reliability. Using vehicle, route, charging and energy data, BetterFleet helps operators plan fleet transitions, optimise charging schedules and monitor operations in real time, with automated alerts and intelligent charging that prioritise the vehicles and duties that matter most — delivering 99.9% uptime so vehicles are ready when needed.

The platform supports more than 5,000 electric fleet vehicles in transit, logistics, government, airports and ports, including some of the world's largest EV fleet deployments. Designed specifically for large-scale electric fleet operations, it reduces costs and improves fleet reliability and productivity. The platform is delivered through a risk-managed deployment model for mission-critical public transport and remains hardware-agnostic, working with a wide range of charger hardware partners and vehicle telematics and scheduling systems.

5,000+ electric buses | **1,000+** charging points | **200+** fleets | **99.90%** uptime

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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What BetterFleet delivers

Fleet electrification planning and consulting, charge management software delivered as a SaaS subscription, EV managed services and sustainable fleet solutions.

Scan to connect





ARNOWA

AIoT-powered intelligence connecting assets, infrastructure and operations for optimised, efficient performance

Arnowa brings the physical and digital worlds together, combining IoT, AI, machine learning, advanced analytics, automation, edge and cloud technologies to turn connected infrastructure into intelligent, responsive operations. Designed to work with most existing infrastructure and enterprise systems, it enables organisations to optimise performance without replacing their technology stack.

Organisations often lack continuous visibility across energy systems, infrastructure and assets because data is fragmented across disconnected devices and systems. This makes emerging issues harder to detect, increases reliance on manual monitoring and reactive maintenance, and can lead to higher costs, unnecessary energy and resource consumption, and asset downtime.

Arnowa connects this fragmented data into a centralised, real-time view of operations, bringing together continuous monitoring, AI-driven insights, predictive analytics and intelligent automation to identify emerging issues and support timely intervention. Its integrated architecture spans IoT sensing and metering, multi-protocol integration, edge processing, video analytics, predictive maintenance, energy and resource management, smart grids and distributed energy resources, and digital twins. The company holds ISO 27001 certification for its information security management system.

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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What Arnowa delivers

An integrated AIoT and operational intelligence solution delivered through technology deployment and ongoing platform engagement, covering IoT and sensor integration, energy and resource management, asset performance and predictive maintenance, smart infrastructure and building automation, operational analytics and AI-enabled workflow automation.

Scan to connect





RETRAGREEN
IOT + AI

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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Scan to connect

RETRAGREEN

RG Co-Pilot is AI-enabled software that helps building teams quickly improve energy use, comfort and building performance

Retragreen's RG Co-Pilot is AI-enabled software that helps building teams see where energy, comfort and building performance can improve, then focus on what matters most. It is designed for fast deployment and easy scaling across buildings, using existing systems without major upgrades.

Building teams often lack a clear view of where energy is being wasted or why comfort issues occur. RG Co-Pilot turns existing building data into clear priorities, helping teams act faster and make informed decisions.

RG Co-Pilot is already used in operating buildings. It supports fast deployment and can scale from a single building to an entire portfolio using the systems already in place.

What Retragreen delivers

AI-enabled software that helps building teams identify, prioritise and track practical improvements across one building or a portfolio.

Selected clients

Lendlease — The Exchange TRX, Kuala Lumpur · Temasek Polytechnic, Singapore



Sectors

Clean Energy

Key Capabilities

Energy Systems and Management · Storage and Firming · Renewables and Generation

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RECHIN

Integrated multi-energy infrastructure for industrial operators

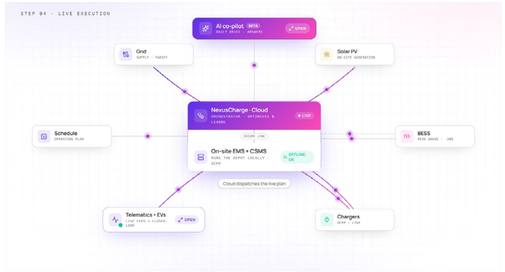
Rechin engineers, procures and operates integrated multi-energy infrastructure at utility scale. Battery storage, solar, hydrogen, CNG and fleet electrification are delivered under one accountable Australian contract and connected through the proprietary Rechin X operational platform.

Industrial operators in emerging markets typically manage five to seven separate energy vendors across battery, solar, generator, fuel, telemetry and reporting. This fragmentation drives total ownership cost up by 15 to 25% through duplicated engineering, incompatible interfaces and no single accountable party, while a lack of real-time dispatch visibility leaves 10 to 20% of potential energy savings unrealised.

Rechin delivers the full multi-energy stack under one integrated engineering contract, with every asset connected to Rechin X for real-time telemetry, dispatch intelligence and lender-grade audit trails from day one. Melbourne-based engineering, procurement and project management is combined with regional construction partners for in-country execution. Current live delivery includes utility-scale battery energy storage, solar generation and cross-border, export-credit-agency-backed multi-year fleet programmes, using Tier-1, bankability-compliant equipment.

What Rechin delivers

Integrated multi-energy project delivery — engineering and design, equipment procurement, international logistics, project management and grid interconnection coordination — with a Rechin X subscription for live dispatch, telemetry and reporting, and optional export-credit-agency financing structuring and long-term operations and maintenance.



BEYOND EV

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management · Smart Urban and Transport Systems · Sustainable Mining Technologies

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RMIT EV Living Lab

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Scan to connect

BEYOND EV

Energy Management System that unlocks grid capacity and cuts 18 months and millions in costs

BeyondEV's NexusCharge is an advanced energy operating system that monitors site energy demand and dispatches battery storage, EV charging and solar within current network limits. Rather than treating a site's grid connection as fixed, it creates a dynamic, software-controlled boundary using flexible capacity from distribution network operators, so sites can expand electrification without waiting years for network upgrades.

Sites adding significant electrical load, such as bus depots, farms or mine sites, are charged for network upgrades based on theoretical peak demand rather than actual usage — one Australian depot received a $26 million quote for capacity it would rarely use in full. NexusCharge uses underused capacity at specific times, while BeyondEV supplies energy storage for a fixed monthly fee to cover any shortfall, letting operators expand on their existing connection within two months.

NexusCharge is commercially deployed, managing live operations for bus, logistics and government fleets, including a site with 15 electric buses, a location with a 250 kWh battery, and an apartment building with more than 16 EV chargers and 100 kWh of storage. It works with major charger, battery and inverter brands through OCPP, Modbus, IEEE 2030.5, CSIP-AUS and ISO 15118, and reached TRL 7 in July 2026, with development supported by the Australian Economic Accelerator and RMIT University.

TRL 7 platform | **$8/kWh** monthly storage fee | **~2 months** to expand on existing connection

What BeyondEV delivers

Electrification roadmaps and grid-capacity assessments from its professional services team; the NexusCharge SaaS platform to unlock spare grid capacity and manage distributed energy resources in real time; and Battery-as-a-Service on-site storage for a fixed fee of $8 per kWh per month with no upfront capital.



Gridcog

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management · Storage and Firming · Renewables and Generation

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Scan to connect

GRIDCOG

Simulation software that cuts energy project feasibility analysis from weeks to hours

Gridcog delivers simulation software that helps energy teams make objective, confident investment decisions. It is best known for modelling complex hybrid and co-located projects in a single model — solar, wind, batteries, EV charging, gensets and flexible load, behind the meter or utility-scale — dispatched against real market prices and tariffs, so teams can compare hundreds of design and commercial variants before committing capital.

Energy developers, utilities and large energy users decide on projects worth tens or hundreds of millions of dollars using bespoke spreadsheets. A single feasibility study can take an analyst weeks to months, so teams test three or four options instead of thirty, and errors are hard to find and harder to audit. The result can be mis-sized assets and revenue stacks that do not materialise.

Customers assemble a project from modular asset, tariff and market components, and Gridcog simulates its operation interval by interval over the project life, using mathematical optimisation to dispatch assets against wholesale prices, ancillary services, network tariffs, PPAs and grid limits. Integrated market and weather data covers more than 40 markets. More than 16,000 energy projects have been modelled on the commercial platform, which is used daily by energy majors, developers, network businesses, retailers and consultancies.

16,000+ projects modelled | **40+** markets with integrated data

What Gridcog delivers

An annual SaaS subscription including integrated market and weather data, unlimited scenario modelling, branded reports, full data export and API access, with structured onboarding and analyst support, plus paid modelling engagements and enterprise arrangements.

Selected clients

Shell · TotalEnergies · AGL · ABB · Schneider Electric · Octopus Energy Generation · PwC · Vestas · Greenvolt



Raedyne Systems | Capturing the power of knowledge

RAEDYNE SYSTEMS

Highly effective transmission network condition assessment, with proven risk mitigation, life extension and investment outcomes

Raedyne Systems provides the only proven service that can assess conductor condition continuously, at speed and at network scale, finding material issues critical for managing the grid that existing inspection programs miss. It converts detailed aerial inspection data into reliable knowledge of asset condition, so owners, operators and regulators can make informed maintenance, risk and investment decisions.

With many overhead line assets now 60–70 years old, network owners face rising failure risk, maintenance costs and climate-driven degradation, while wholesale replacement is neither economic nor practical. Raedyne captures full transmission circuits using high-resolution aerial imagery, covering an average of 100 km a day, then applies automated analysis and human verification to isolate the defects that matter — delivering a traceable, network-wide condition record showing where to maintain, remediate, replace or safely defer intervention.

Its Smart Aerial Inspection and Processing (SAIP) system combines robotic aerial image capture, automated image processing and AI-based detection with asset-level reporting through the AssetGIS portal. To date Raedyne has inspected more than 14,000 circuit km of conductors and earth wires, processed over 30 million images and extracted more than 98 million image features, with conductor issue detection exceeding 99.5%. SAIP is used for business-as-usual condition-based asset management and for priority remediation after bushfire and storm damage.

14,000+ circuit km inspected | **25M+** images processed | **99.5%+** issue detection | **100 km** a day captured

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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What Raedyne Systems delivers

An asset condition intelligence service for electricity networks — network-wide programs, recurring inspection or targeted event assessment — including aerial data capture, processing, automated and human-verified defect analysis, condition reporting and access to AssetGIS as the customer's digital condition record.

Selected clients

AusNet · Transgrid

Scan to connect





CCR
Providing Sustainable Solutions

CLIMATE CHANGE RESPONSE

Climate and sustainability intelligence for enterprises and governments to manage emissions and strengthen climate resilience

Climate Change Response (CCR) is a ConsulTech company that combines climate and sustainability advisory with artificial intelligence, advanced analytics and enterprise digital platforms. It manages the full sustainability data and decision cycle, from measurement and verification through to reporting, risk and action, turning complex sustainability standards, regulatory requirements and environmental, energy and climate data into decision-grade intelligence.

Organisations face growing complexity in managing sustainability and climate information across multiple data sources, systems and reporting frameworks, resulting in manual data collection, inconsistent information and limited traceability. CCR consolidates disparate information into a single structured view, strengthens data validation and traceability, automates calculations, monitoring and reporting, and applies AI to generate insights from complex datasets.

The CCR Intelligence Platform provides end-to-end capability across data acquisition, ESG data management, greenhouse gas accounting, digital MRV, performance analytics, scenario modelling, workflow automation and executive decision support, producing audit-ready sustainability disclosures. CCR is a GRI Licensed Software & Tools Partner and provides licensed digital capabilities supporting IFRS S1 and S2, and works with Australian capital cities and major local governments, industrial and processing operations, mining and resources organisations, and consumer and service networks.

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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What CCR delivers

Specialist advisory combined with digital technology, AI and analytics, covering GHG accounting and digital MRV, ESG data and performance management, energy and resource efficiency, climate risk and resilience, adaptation planning, energy transition, decarbonisation and net zero pathways, and sustainability reporting.

Scan to connect





SwitchDin

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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Scan to connect

SWITCHDIN

Systems for securely coordinating distributed energy resources to protect the grid while empowering customers

SwitchDin provides secure, standards-based orchestration of mixed-vendor distributed energy resources, combining resilient site-level control with cloud fleet management to support grid compliance, energy optimisation and market participation at scale. It runs high-DER networks every day for customers ranging from remote microgrids to distribution networks with more than 40% solar penetration.

Utilities and asset owners face growing cost and risk as solar, batteries, EV chargers and flexible loads spread across incompatible devices and vendor platforms. SwitchDin's server software connects front-of-meter and customer-owned assets, with an optional on-site controller for dependable operation through communication interruptions, providing telemetry, alerts, dynamic operating envelopes, whole-of-site optimisation and secure integration with utility and market systems.

SwitchDin has taken several of Australia's most innovative DER orchestration trials — including Project Symphony, Flexible Export Limits and the Onslow microgrid — from pilot to production. Horizon Power uses its Secure Gateway Device as the default offering across its remote microgrid communities, and Endeavour Energy's Flexible Export program aims to give more than 300,000 Western Sydney solar customers greater network access. SwitchDin developed the first interoperability testing program for the CSIP-AUS protocol.

What SwitchDin delivers

DER management software through cloud-hosted SaaS, bring-your-own-cloud or on-premises deployment; on-site controller hardware with up-front or subscription payment; and professional services including support, OEM engagement and consulting.

Selected clients

Horizon Power · Endeavour Energy · SA Power Networks · Viva Energy · City of Yarra · Newcastle City Council · Lake Macquarie City Council



carbonix™

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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Scan to connect

CARBONIX

Long-range drone surveying and surveillance that replaces helicopters for critical infrastructure

Carbonix is the world's first and only SAIL III Beyond Visual Line of Sight certified and BARS-audited drone OEM and operator. Its long-range drones fly for 10 hours in real-world conditions carrying high-resolution, high-accuracy surveying payloads, generating accurate and frequent digital twins at scale for powerlines, gas pipelines, solar farms and open-cut mines.

Large-area surveying and asset monitoring of critical infrastructure is currently done with helicopters, which burn a lot of fuel and are dangerous, noisy, disruptive and inflexible. Carbonix offers a viable replacement at scale, giving operators visibility and real-time ground truth on asset condition and vegetation encroachment to plan and coordinate building, maintenance and repairs.

Carbonix has logged 30,000 hours of flight and holds the regulatory certifications that allow a single flight to cover 1,000 km in mixed airspace, with no boots on the ground. It works with tentpole international customers on multi-year contracts for regular surveying, and is a supplier to the Australian Defence Force.

30,000 hrs flight time | **10 hrs** endurance | **1,000 km** per flight

What Carbonix delivers

Asset surveys paid for by the kilometre, with no upfront capital, no regulatory friction and no need to train operators and maintainers — the same model as helicopter surveying companies, delivered more safely, cleanly and cheaply.

Selected clients

Origin Energy · SA Power Networks · Evo Energy



QUT ENERGY TRANSITION CENTRE

Applied energy transition research for industry that turns challenges into practical, scalable solutions

QUT's Energy Transition Centre (ETC) brings together expertise across three QUT faculties to tackle energy transition challenges from multiple angles. Its five research programs span sustainable minerals, resources and infrastructure for energy; energy production and storage; integrated energy systems; the internet of energy; and energy policy, markets and human factors — connecting critical minerals and energy technologies through system integration and digitisation to the policy, market and human dimensions of adoption.

Energy transition projects face interconnected technical, infrastructure, market, policy and human challenges, yet organisations often lack access to integrated expertise across these areas, resulting in delayed investment, poorly integrated technologies, regulatory uncertainty and solutions that fail to scale. ETC combines the relevant capability from across its programs to address an industry challenge as a connected system, giving partners practical evidence, tested options and clearer pathways for investment, deployment and adoption.

ETC's capability is supported by more than $27 million in active grants across minerals, batteries, hydrogen and grid systems, and by the $15 million Queensland Energy Storage Technology Hub (QUEST Hub) established with the Queensland Government. Work spans the National Battery Testing Centre, green hydrogen production, grid-forming inverter integration, cyber-secure energy networks and advanced battery materials, supported by QUT's Advanced Battery Facility and a battery testing microgrid pairing a 100 kW solar array with 400 kWh of lithium-ion storage.

$27M+ active grants | **$15M** QUEST Hub | **5** research programs | **400 kWh** test microgrid

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management · Storage and Firming · Renewables and Generation

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What ETC delivers

Commissioned and collaborative research, applied industry challenge projects, technology testing and validation, strategic research partnerships and workforce capability development, ranging from focused three-to-six-month projects to multi-year, large-scale collaborations.

Scan to connect





AGILE CONSULTING ENGINEERS

Increasing delivery capacity by solving the complex engineering problems of renewable energy integration

AGILE is an on-demand engineering partner that project developers, EPCs and asset owners bring in to ensure commercial and industrial renewable projects are accurately engineered and compliant to deliver their expected return. Its team, holding NER, CPEng, RPEQ and SAA accreditation, brings deep knowledge of the regulatory and engineering requirements for grid connection across the NEM, WEM and Territory markets, and was the engineering mind behind the first VPP project in Darwin.

AGILE helps clients foresee and solve engineering challenges such as anti-islanding schemes, protection packages and grid modelling imposed by network operators, cutting grid-connection timelines and costs. It right-sizes solar and battery assets to stay under connection thresholds while still hitting target returns, and identifies interface, integration and design faults early so they do not carry through into mass production.

AGILE has supported more than 400 MW of solar and storage capacity across Australia, backed by more than 30 years of collective engineering experience. On a battery production line in China for a 200 MWh BESS project in Queensland, it identified 52 prototype non-conformities and engineered the fixes. It has also designed the grid-connection pathway for a 2.5 MW DC solar farm, a VPP-integrated hybrid-inverter and DC-DC converter battery system, and protection and anti-islanding solutions for a 2 MW plant in the Northern Territory.

400 MW+ solar & storage supported | **52** prototype faults caught | **30+ yrs** collective experience

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management · Storage and Firming · Renewables and Generation

Address

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What AGILE delivers

Owner's engineering, solar PV and battery design, grid-connection and power-systems studies, independent design and compliance review, feasibility studies, microgrid and embedded-network design, engineering project management, and technical advisory for tenders — from fixed-scope reviews to end-to-end engagements across a project's life.

Selected clients

ACCIONA · Hermès · Power and Water Corporation · Rimfire Group · Airport Development Group · Sentinel Group

Scan to connect





Masters & Young

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management

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Scan to connect

MASTERS & YOUNG

Certified end-to-end electronics design, PCB assembly and manufacturing for demanding industries

Masters & Young turns complex electronics concepts into reliable, production-ready products, from engineering and prototyping to PCB assembly, testing and ongoing manufacture and maintenance. It supports demanding sectors including defence, aerospace, healthcare, mining and industrial technology with high-quality Australian manufacturing.

Customers with complex or early-stage electronic designs often have to manage separate design, prototype, assembly and test suppliers. Masters & Young's integrated Brisbane capability reduces development risk, improves quality control and supports dependable supply for demanding, regulated applications, with one accountable partner from concept through to repeat production.

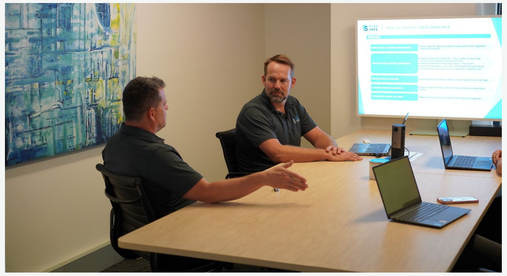
Its team combines advanced SMT and through-hole manufacturing with rigorous quality controls, including AOI, X-ray and functional testing, and develops complex multi-layer, rigid-flex and HDI PCB solutions for harsh and mission-critical environments. The capability is deployed in defence and aerospace maintenance, repair and operational support, military communications and avionics, medical devices such as diagnostic, monitoring, therapeutic, imaging and wearable products, and mining and industrial electronics, backed by more than 30 years of delivery for Australian and international organisations.

What Masters & Young delivers

A complete Australian-based electronics design and manufacturing service — product definition and engineering, PCB design, prototyping, assembly, testing and ongoing manufacture — delivered through one accountable partner.

Customers

Boeing Defence Australia, Gilmour Space, Emesent, Tritium, Rheinmetall, Fire and Safety Industries, Outsource1, Thales, Rio Tinto.



PLAN SAFE

Sectors

Clean Energy

Key Capabilities

Energy Systems and Management · Hydrogen, ETS and Emerging Fuels · Smart Urban and Transport Systems

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Scan to connect

PLAN SAFE

Helping energy developers deliver safer, more reliable and integrated clean energy solutions

Plan Safe provides independent safety assurance, systems engineering and human factors expertise for complex infrastructure and energy projects. It helps project owners, developers and operators identify and manage critical risks, integrate new technologies safely and achieve confident delivery and operational readiness, bringing proven assurance approaches from Australia's most safety-critical industries to clean energy.

Energy developers and operators face schedule, cost and regulatory risks when complex technologies, contractors and operational interfaces are not effectively integrated, and problems found late in design, testing or commissioning mean costly rework, delayed revenues and reduced reliability. Plan Safe applies structured assurance, systems engineering, human factors and risk management through development, design, delivery and commissioning, so issues are found early and commissioning is safer.

These are mature, commercially deployed capabilities delivered by experienced practitioners, not emerging technologies. The team has supported major rail, aviation, defence, healthcare and industrial infrastructure projects, including ETCS rail programs, airport infrastructure upgrades, operational readiness programs and safety-critical regulatory approvals. The same methods apply to renewable energy, battery storage, hydrogen and other clean energy projects.

What Plan Safe delivers

Specialist consulting in safety assurance, systems integration, human factors and operational readiness, helping developers, asset owners and operators manage risk, support regulatory approvals and deliver complex energy infrastructure safely.

Selected clients

Sydney Metro · Transport for NSW · ARTC · Queensland Rail · Downer Rail



WORLEY

The world's largest provider of engineering, project and asset management solutions across energy, chemicals and resources

Worley is the world's largest provider of engineering, project and asset management solutions across energy, chemicals and resources. Guided by its purpose of delivering a more sustainable world, it supports the world's biggest and most complex projects, from consulting and early studies through to delivery and operations, with more than 40,400 people in 43 countries.

Worley's distinctive strength is helping customers bridge today's operational needs with tomorrow's sustainability ambitions, combining decades of engineering expertise with end-to-end project delivery across the full asset lifecycle. Through frameworks such as SEAL — Safe and Sustainable Engineering for Asset Lifecycle — it integrates safety, sustainability and technical integrity into project delivery.

Alongside its engineering and delivery expertise, Worley owns and deploys a portfolio of clean technology solutions. These include its proprietary CORE-SO2™ and CORE-FGD™ systems, which help customers reduce sulfur dioxide emissions; nuclear-certified equipment and services that support the safe deployment of nuclear energy; and a partnership with Nano One to commercialise the One-Pot process for more sustainable production of lithium-ion battery cathode active materials.

40,400+ people | **43** countries

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels · Energy Systems and Management · Waste Free Mine / Smart Water Mine

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What Worley delivers

Consulting, engineering, project delivery and asset management across the full asset lifecycle — feasibility studies, FEED, EPC/EPCM delivery, commissioning, operations support and decommissioning — together with proprietary clean technologies including CORE-SO2™ and CORE-FGD™ emissions reduction systems.

Customers

Global majors in energy, resources and chemicals

Scan to connect





HAMR ENERGY

Helping hard-to-abate sectors like aviation and maritime access low-carbon fuels

HAMR Energy is building an integrated platform that converts forestry residues and renewable hydrogen into low-carbon methanol and sustainable aviation fuel (SAF) in Australia, alongside an operating fuels business already supplying ISCC-certified renewable diesel and biofuel blends to industrial and maritime customers across Australia and Asia.

Airlines and shipping operators need to decarbonise, driven by corporate targets, customer needs and emerging compliance mandates, but their engines and infrastructure require drop-in liquid fuels whose low-carbon supply is currently constrained. HAMR gasifies under-utilised forestry residues into synthesis gas, combines it with green hydrogen from renewable-powered electrolysis to produce low-carbon methanol, then converts the methanol into SAF through a methanol-to-jet process — a drop-in fuel usable in existing aircraft without modification.

The flagship project, spanning Victoria and South Australia, will convert 600,000 tonnes a year of forestry residues and 250 MW of renewable electricity into 300,000 tonnes a year of low-carbon methanol and 140 million litres a year of SAF. Having completed Pre-FEED with thyssenkrupp Uhde and Honeywell UOP, it is now in FEED, targeting first production from 2031, and has been allocated $32 million in conditional ARENA funding — the first investment under the Australian Government's $250 million Low Carbon Liquid Fuels program. A Series A raise in January 2026 was backed by Qantas, Airbus, thyssenkrupp and Honeywell.

140M L SAF a year | **300,000 t** methanol a year | **$32M** ARENA funding

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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What HAMR delivers

Long-term offtake agreements for low-carbon methanol and SAF from its flagship project, direct supply of ISCC-certified renewable diesel and biofuel blends for maritime and industrial customers today, and co-investment and partnership opportunities in the flagship project and future funding rounds.

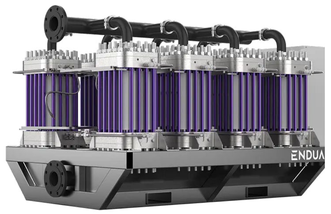
Selected clients

BHP · Global Centre for Maritime Decarbonisation

Scan to connect







ENDUA

On-site PEM electrolysers that replace delivered hydrogen for industrial operators

Endua is the only Australian manufacturer of PEM electrolysers that makes its own stacks, from a proprietary catalyst-coated membrane through to complete systems, all built in Brisbane. Its patented clean-sheet design runs at 50.6 kWh/kg stack efficiency, with 30 to 100% turndown and rapid response to variable power sources.

Industrial hydrogen users typically buy from a merchant supplier and take delivery by tube trailer. Because hydrogen has a low volumetric energy density, transport and storage make up a large share of the delivered price, and one missed delivery can stop a process that needs continuous, high-purity supply. An Endua electrolyser sits on the customer's site, splitting treated water using their own electricity to deliver hydrogen directly into the process at a known cost — and, when sourced from renewable electricity, that hydrogen is green.

Endua's PEM technology began as CSIRO research and is at demonstration stage, moving into first commercial systems. The core products are the ES-50 stack and the EM-400 multi-stack module. Evidence to date includes more than 30,000 hours of in-house stack testing and two demonstration systems operating in real-world, solar-only conditions since 2023 and late 2024. The system at Archerfield Airport in Brisbane was installed onto a prepared site in six hours, and independent powertrain engineering and testing house AVL has been engaged for third-party validation of the stack.

50.6 kWh/kg efficiency | **30–100%** turndown | **30,000+ hrs** testing | **≤ 2,000 kg/day** systems

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels · Energy Systems and Management · R&D and Innovation

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What Endua delivers

ES-50 PEM stacks and EM-400 multi-stack modules (50–400 kg/day) for system integrators and EPCs, and complete pre-engineered, factory-tested electrolyser systems (50–2,000 kg/day) for EPCs and industrial operators, supported by feasibility, project engineering, commissioning and maintenance services.

Scan to connect





HAZER GROUP

Low-emissions hydrogen and graphite technology for industrial decarbonisation at commercially competitive cost

Hazer Group has developed a methane pyrolysis technology that converts natural gas or biomethane into low-emissions hydrogen and high-purity graphite using a proprietary iron-ore catalyst. The process requires significantly less energy than electrolysis-based hydrogen production and is designed for integration into existing industrial and energy infrastructure, providing a scalable pathway to decarbonise steel, ammonia, power and sustainable fuels.

Rather than producing CO2 as occurs in conventional hydrogen production, Hazer splits methane into hydrogen and solid carbon with negligible CO2 emissions. It offers a direct replacement for the incumbent carbon-intensive process, helping customers reduce the cost and complexity of decarbonisation while generating graphite as a valuable co-product.

Hazer operates a Commercial Demonstration Plant in Perth that has demonstrated continuous production of hydrogen and graphite. In April 2026, Hazer and KBR completed a commercial Process Design Package for a 30,000 tonne-per-annum hydrogen facility producing approximately 120,000 tonnes of graphite a year, and have since secured their first KBR-originated paid commercial study with a leading Japanese power utility.

30,000 tpa hydrogen facility design | **~120,000 tpa** graphite co-product | **40+** licensing opportunities

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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What Hazer delivers

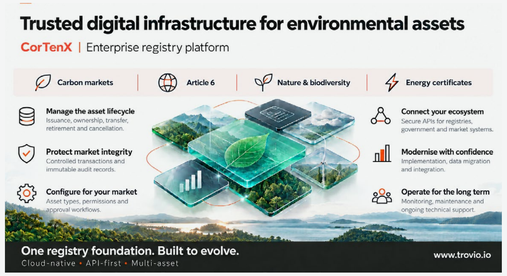
Technology licensing and associated engineering services, delivered with global engineering partner KBR, including commercial process designs and project-specific engineering to integrate Hazer technology into new or existing facilities producing low-emissions hydrogen and graphite at commercial scale.

Selected partners

FortisBC (Canada) · Chubu Electric and Chiyoda Corporation (Japan) · POSCO (Korea) · KBR

Scan to connect





TROVIO

Registry infrastructure for managing and tracking environmental and commodity assets globally

Trovio's CorTenX platform is registry infrastructure for data-driven environmental and commodity assets. It supports secure issuance, transfer, retirement and reporting, with full lifecycle traceability across carbon, biodiversity, renewable energy, Guarantee of Origin and emerging-fuel programs.

Governments, issuance bodies and enterprises manage increasingly complex assets across fragmented systems and evolving regulations, with legacy platforms creating manual processes, inconsistent reporting and weak audit trails. CorTenX offers a single, interoperable source of truth: configurable approval workflows, API-based data exchange, and immutable records and cryptographic proofs that preserve provenance and prevent double use.

The platform is commercially deployed. For the Australian Clean Energy Regulator it underpins the Unit and Certificate Registry, having migrated 177,672,533 ACCUs and full transaction histories for more than 2,000 accounts. Internationally, Trovio and EY were awarded a multi-year UN contract for Paris Agreement Article 6 registry infrastructure, Gold Standard selected it for its next-generation Impact Registry, and SAFCo appointed it to build Singapore's sustainable aviation fuel registry.

177.7M ACCUs migrated | **2,000+** accounts migrated | **60M+** ACCUs with added data

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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Amsterdam · Singapore

Contact

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What Trovio delivers

Customers can adopt an existing CorTenX solution configured to their requirements or commission a tailored registry design, including requirements analysis, workflow configuration, data migration and systems integration, delivered as a fully managed Platform-as-a-Service.

Selected clients

Clean Energy Regulator · UNFCCC · Gold Standard · SAFCo (Singapore) · NSW GreenPower · NSW Government Biodiversity Offsets Scheme

Scan to connect





HYSATA

Capillary-fed electrolysers delivering 95% system efficiency for hard-to-abate industry

Hysata's capillary-fed electrolysis is a new class of electrolyser technology. A porous membrane saturated with electrolyte by capillary action creates a thin liquid layer on the electrodesthat eliminates bubble formation, delivering 95% efficiency (41.5 kWh/kg), independently verified by Germany's Forschungszentrum Jülich, and a simpler balance of plant that rejects ten times less heat and circulates twenty times less liquid per megawatt.

Green hydrogen is essential for decarbonising steel, ammonia, methanol, shipping and aviation, but incumbent alkaline and PEM electrolysers run at around 75% system efficiency, and the electricity they waste drives more than 70% of the cost of hydrogen. These limitations are keeping large projects from reaching final investment decision.

Hysata's electrolyser is at TRL 9. A commercial-scale industrial demonstrator is operating at Port Kembla, and its first unit was exported to Acwa Power for a six-month demonstration in Jeddah, Saudi Arabia. More than 1,000,000 hours of cell testing support its first binding megawatt-scale order in 2026, from a tier-one industrial customer for delivery in 2027, and a 200 MW-a-year production line is under construction at Port Kembla.

95% efficiency | **41.5 kWh/kg** energy use | **750,000+ hrs** testing | **200 MW/yr** new line

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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What Hysata delivers

Complete electrolyser systems — capillary-fed stack, balance of system, power supply and digital monitoring — sold direct to industrial end users, project developers and EPC contractors, installed and commissioned by Hysata, with long-term service agreements and capacity reservation agreements for delivery slots.

Selected clients

Acwa Power (Saudi Arabia)

Scan to connect





ENERGYS

Reliable zero-emission prime, backup and microgrid power systems for industrial, marine and off-grid operators

Energys is the only Australian company that designs, manufactures and internationally deploys kilowatt to multi-megawatt integrated clean power systems. It delivers bespoke power systems end to end, from feasibility and detailed design through manufacture to construction, commissioning and operational handover.

Remote mines, ports, telecom sites and vessels still run on diesel for prime and backup power, and most suppliers sell a component rather than a system that satisfies hazardous-area, class and regulatory requirements. Energys combines fuel cells, battery storage, electrolysers, fuel reformers and renewable generation with power conversion and a microgrid controller offering black-start and autonomous operation, factory-tested and shipped as containerised units for commissioning within days.

For ENOWA at NEOM in Saudi Arabia, Energys delivered a 1 MW containerised hydrogen fuel cell power system for EV charging, integrating 27 fuel cell modules with 216 kWh of battery storage, installed and commissioned within days of arrival. Its standardised 10 kW hydrogen backup systems for Telstra in regional Victoria won Engineers Australia Project of the Year 2025, and it delivered a turnkey 500 kW PEM electrolyser package for Jemena's Western Sydney Green Gas facility.

1 MW fuel cell system | **27** fuel cell modules | **500 kW** PEM electrolyser | **kW to multi-MW** system range

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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What Energys delivers

Containerised clean power systems from 10 kW to 1 MW; EPC delivery of hydrogen production, compression, storage and refuelling facilities and integrated microgrids; engineering consulting including hazardous-area engineering and approval pathways; and system integration for OEMs.

Selected clients

Telstra · NEOM/ENOWA · Ark Energy · Jemena · CS Energy

Scan to connect





CAVENDISH RENEWABLE TECHNOLOGY

High-efficiency modular electrolysers delivering affordable green hydrogen, from onsite supply to industrial scale

Cavendish Renewable Technology (CRT) develops Australian electrolysis technology for high-efficiency green hydrogen production, from onsite demand to industrial scale. Its internationally licensed modular platform combines proprietary catalysts, scalable stacks and AI-integrated controls, with commercial systems of up to 5 MW designed to follow variable renewable power.

Industrial green hydrogen projects face three linked cost pressures: electricity consumption, electrolyser capital cost and poor asset utilisation when renewable power is variable. Conventional systems are often optimised for steady operation, while solar and wind output changes throughout the day. CRT's fast start-up, load response and cool-down allow production to match available renewable power, improving utilisation of both the electrolyser and the renewable electricity.

CRT has developed and demonstrated MW-scale electrolyser systems, and its technology is licensed to Adani New Industries Limited to support commercialisation and scale-up within a multi-gigawatt electrolyser manufacturing program. The portfolio is supported by thousands of hours of representative testing, detailed manufacturing plant design and independent third-party cost analysis. CRT is also progressing a government-supported Australian demonstration project with a major OEM, and applying its electrochemical and catalyst technologies to CO^2 conversion.

Up to 5 MW commercial systems | **MW-scale** systems demonstrated

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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What CRT delivers

Modular electrolyser stacks and integrated hydrogen production systems, pilot and demonstration systems, engineering and system integration, joint venture development and technology licensing, configured for onsite hydrogen demand or scaled through repeatable modules for larger industrial projects.

Selected clients

Adani New Industries Limited (India)

Scan to connect





GLOBO HYDRO POWER

Globo Hydro Power's hydrogen injection system boosts diesel efficiency and power while reducing emissions

Globo Hydro Power is an Australian company that upgrades in-use petrol and diesel engines into hydrogen hybrid systems using its hydrogen fuel enhancement technology. It serves the transport, off-road, agriculture and mining sectors as well as diesel power generation, providing cost-effective solutions that deliver fuel savings while reducing greenhouse gas emissions.

Transport and other sectors that rely on diesel or petrol to fuel their fleets and other internal combustion engines have seen substantial increases in fuel prices. Globo Hydro Power's system uses hydrogen as a stimulant to create a more effective burn within the engine's combustion process, delivering fuel savings of up to 30% — including the cost of the hydrogen — while reducing greenhouse gas emissions.

The product is commercially ready for installation and has been installed in a small number of buses and trucks as well as diesel power generators in Australia. It is currently being released globally through a select group of international distributors, principally in the USA, Africa and India.

What Globo Hydro Power delivers

The Globo Hydro hydrogen fuel enhancement system, available in Australia through a select group of distributors on a no-upfront-cost lease basis with a five-year hydrogen gas supply contract.

Sectors

Clean Energy

Key Capabilities

Hydrogen, ETS and Emerging Fuels

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Scan to connect

Sustainable cities

Australia's cities have been shaped by the need to operate efficiently and withstand water scarcity, extreme weather and rapid urban growth. In response, Australian businesses have developed practical solutions that help cities, utilities and asset owners improve resource efficiency, strengthen resilience and lift long-term performance.

Australian companies have proven capabilities across water management, waste reduction, green infrastructure, climate adaptation, building performance and smart asset management. These solutions help organisations reduce resource consumption, improve operational efficiency, strengthen critical infrastructure and prepare for future environmental challenges.

From advanced analytics that optimise building performance and reduce energy use, to solutions that enhance water security, protect communities from climate impacts and support more sustainable infrastructure, Australian innovation is helping create more efficient, resilient and liveable urban environments.

The companies featured here showcase Australia's sustainable cities capability. Their commercially proven technologies and services are ready to support utilities, communities and urban development projects in international markets.

Sustainable cities subsectors

Water and waste

Sustainable management of water resources and waste.

Transient Detect
Matter IO
ESS Earth Sciences
Osmoflo
Innovate Enviro
OptionX Group
Cleanaway
Sustainative
Circul-R
Green Loo
Bluemont
Tonkin + Taylor
Aqua Ubique

Green infrastructure

The resources, technologies, and services that build sustainable cities, including Net Zero Materials and Construction, Low-carbon cement and materials, sustainable construction technologies, Green metals, and Technology for efficiency.

Enviromesh
Hall Contracting
Bueno Analytics
CTECK EE
Energy Estate
Lightning Protection International
Calix
Rectifier Technologies
CC Pines
HempBlock International
Bligh Tanner

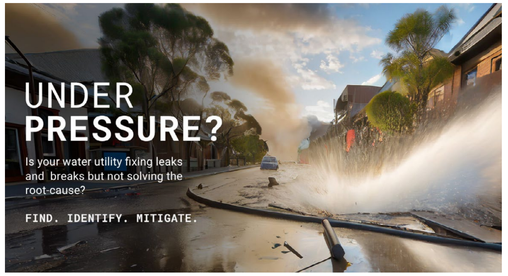
Smart urban and transport systems

Systems that enable transport within sustainable cities and technology to improve liveability.

Novosol
Janus Electric



Rubicon Water



Transient·Detect

Sectors

Sustainable Cities

Key Capabilities

Water and Waste

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Scan to connect

TRANSIENT DETECT

Monitoring that finds pipe-damaging pressure surges, so potable water utilities extend pipe life and cut main breaks

Transient Detect makes pressure transients — the invisible surge events that fatigue and crack water mains — visible and quantifiable at network scale. Its analytics let utilities pinpoint which pipe segments are recoverable and which are at end-of-life, target mitigation where it counts, and verify the pipe life recovered before and after intervention.

Water utilities typically replace pipes on age-based schedules rather than evidence, renewing mains that still have life while others fail without warning. A single main break can cost from tens of thousands to millions of dollars in repairs, service disruption and water loss, and pressure transients silently accelerate this fatigue where operators cannot see it.

High-frequency edge devices, co-designed with the utilities that run the networks, capture damaging surges that legacy threshold-based loggers miss. Analytics correlate events network-wide, trace them to origin and rank pipe segments by likelihood of failure. Across Australian networks the platform has captured more than 250,000 pressure events and driven up to an 80% reduction in transient activity through targeted operational change. At South East Water, a single valve-operation change recovered around seven years of pipe life.

250,000+ pressure events | **80%** transient activity | **~7 yrs** pipe life recovered | **~$4M** value identified

What Transient Detect delivers

A turnkey managed service combining transient-monitoring devices, connectivity, analytics and fleet management through the TD.Edge and TD.Cloud platform. Engagements typically begin as a paid pilot and convert to multi-year contracts aligned to utility regulatory periods.

Selected clients

Greater Western Water · South East Water · Yarra Valley Water · Central Highlands Water · SA Water



matter.

Sectors

Sustainable Cities

Key Capabilities

Water and Waste

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Scan to connect

MATTER IO

IoT sensors and AI giving councils real-time control of waste and stormwater networks

Matter builds Australian-designed IoT sensors and AI software that give councils and industry live operational intelligence from physical infrastructure. Its retrofit Think Lid sensor turns any waste bin into a data source in minutes, while its CSIRO-backed SensAI radar platform monitors stormwater networks — both feeding one subscription platform for operations, proof-of-service and verified sustainability reporting.

Councils run waste collection almost blind: trucks empty bins on fixed schedules whether they are full or not, and service complaints cannot be verified against evidence. The same blindness applies underground, where blocked stormwater pits go undetected until flooding occurs. Fleets burn fuel on empty runs, complaints escalate without data, and sustainability reporting relies on estimates rather than measurement.

Commercially deployed across more than 20 Australian local governments, the platform turns sensor readings into optimised collection routes, verified service records, blockage alerts and auditable sustainability metrics. At Cassowary Coast Regional Council, smart bin sensors cut complaints by 72% and unnecessary dispatches by 78%; City of Monash runs more than 300 SensAI sensors; and a City of Port Phillip stormwater pilot detected blockages in 38% of monitored pits.

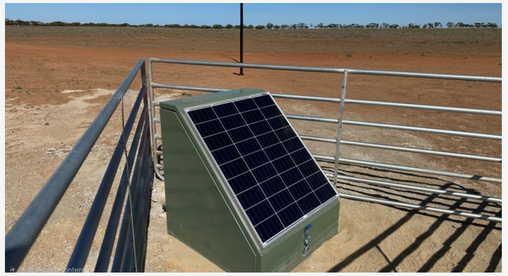
20+ councils | **72%** complaints | **78%** unnecessary dispatches | **16-year** sensor battery life

What Matter delivers

Intelligence as a service — sensors, software and data in one subscription with hardware included, covering per-bin or per-asset monitoring through the ThinkOS and Meridian platforms with alerts and reporting bundled, a fully managed monitoring option, and partner supply of Franzen automatic gravity bin locks.

Selected clients

Cassowary Coast Regional Council · Noosa Council · City of Monash · City of Port Phillip



ESS EARTH SCIENCES

Australian made and supported solutions for monitoring ground movement, vibration, water quality, weather and solar

ESS Earth Sciences designs, supplies, installs and supports environmental monitoring solutions in seismology, geotechnical engineering, hydrography, ground water monitoring, weather systems and solar radiation monitoring. Its standout capability is delivering integrated earth science monitoring, combining high-quality instruments and sensors with field deployment, data acquisition, analysis and technical expertise, backed by rapid and reliable support from a local team of experts.

Customers often face uncertainty around where and how to develop green energy projects because of complex geological, environmental and resource constraints. ESS Earth Sciences turns earth science data into practical insights through geotechnical sensors, remote sensing and environmental monitoring equipment, supported by data analysis, site assessment and technical consulting, enabling better site decisions and reducing project risk.

Its water monitoring sensors have been deployed on projects in Australia and Asia, and its geosystems instrumentation has been deployed across Australia, Mongolia and the Middle East to support risk assessment. Networks of its seismographs monitor seismic activity around dams, mines and other seismically sensitive sites in Australia and globally.

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Energy Systems and Management

What ESS Earth Sciences delivers

Sensor and instrument supply, field survey and monitoring services, equipment deployment, data acquisition and analysis, and technical consulting, for individual equipment needs or end-to-end support on green energy and environmental projects.

Customers

Fire agencies across Australia · wildlife and parks agencies · dam operators · mines · solar farms

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OSMOFLO

Multi-country water operations across the Pacific, delivering safe drinking water to remote communities

Osmoflo is best known for operating and supporting critical water infrastructure in remote Pacific communities, where reliability is essential and local capability is vital. It doesn't just build desalination plants — it develops local operators to run them independently, integrating technical expertise, 24/7 remote support and operator training to help utilities maximise asset performance and ensure long-term water security.

Water utilities in remote Pacific communities face significant operational risks from equipment failures, limited local expertise and complex logistics, where an unplanned outage can disrupt drinking water supply for an entire community. Osmoflo combines experienced operators, 24/7 remote monitoring, preventative maintenance, technical support and local workforce development to identify issues before they cause failures, optimise plant performance and build lasting local capability.

Osmoflo's capability is commercially proven and deployed at scale across Australia, New Zealand and the Pacific. It operates and supports major desalination and water treatment assets including the South Tarawa Water Supply Project in Kiribati and projects in the Marshall Islands. Its Adelaide-based remote operations centre monitors more than 150 water and wastewater treatment assets, and it has developed Pacific-specific operator training and capability-building programs that help local utilities sustainably operate complex treatment systems.

150+ assets monitored remotely
24/7 remote operations centre

Sectors

Sustainable Cities

Key Capabilities

Water and Waste

What Osmoflo delivers

Desalination and water treatment plant design and delivery (EPC), operations and maintenance contracts, asset management, 24/7 remote monitoring and technical support, operator training and workforce development, and specialist water security consulting, plus equipment supply, plant upgrades, emergency response and temporary water treatment.

Selected clients

New Zealand Ministry of Foreign Affairs and Trade · Asian Development Bank · Hunter Water Belmont Desalination Project (with John Holland)

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Innovate Enviro
Innovative Solutions for Environmental Outcomes

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Waste Free Mine / Smart Water Mine

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Scan to connect

INNOVATE ENVIRO

Water resource management that de-risks clients and the environment they operate in

Innovate Enviro is an award-winning company bringing innovation to challenging site water management through a strong collaborative network of like-minded partners. It is solution-focused, chasing the best outcomes for clients and the environment and finding simple, cost-effective ways to solve problems.

Sustainable water management is integral to operations in many industries, and effective, low-powered treatment and reuse or discharge options can be pivotal to whether a project succeeds. Innovate Enviro offers a wide range of water treatment technologies, including PFAS capture and destruction systems, allowing a full range of contaminants to be removed for reuse or off-site discharge — saving clients money and reducing their exposure to future environmental and social impacts.

Recent field trials treating groundwater and leachate with elevated levels of PFAS through a partner company's low-powered treatment system achieved destruction of a suite of 36 PFAS types, ranging from long-chain to short-chain, with all results below the limit of reporting.

What Innovate Enviro delivers

Water treatment systems, including hardware and servicing, through a range of delivery models.



OPTIONX GROUP

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · R&D and Innovation

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OPTIONX GROUP

Australian vacuum microtunnelling technology for pipeline installation, delivering precision with minimal surface disruption

OptionX Group designs, manufactures and operates patented vacuum microtunnelling technology, winner of the 2023 ASTT New Technology Award. Its AdaptX platform is changing gravity sewer construction through precision microtunnelling in soft ground, mixed conditions and hard rock, using laser guidance and vacuum spoil extraction to achieve ±5–10 mm accuracy from compact shafts.

Gravity sewer constructors must maintain exact line and grade, yet some alternative trenchless methods average around ±100 mm accuracy, which can compromise gravity flow and require costly remediation. Open-cut construction adds deep excavation, shoring, dewatering, spoil haulage, traffic closures and utility-conflict risks, increasing cost, safety exposure, carbon emissions, community disruption and delays. With AdaptX, only the pipeline path and the launch and reception shafts are excavated, keeping surrounding ground and surface conditions as close as practicable to their native state.

AdaptX is a commercial, field-deployed modular platform designed in Australia and operated by OptionX Group company Edge Underground, with configurations spanning approximately 350–3,000mm. It has supported thousands of metres of pipeline installation. On Fulton Hogan's approximately 10 km northern Adelaide wastewater program, AdaptX-powered crews consistently completed sections in six days versus 10–11 days for another contractor, and a 2025 Geelong installation was completed in four days against up to two weeks anticipated using conventional methods.

±5–10 mm accuracy | **350–3,000 mm** configurations | **6 days** vs 10–11 per section

What OptionX delivers

Exclusive AdaptX technology partnerships for international contractors, providing custom-configured modular microtunnelling systems, proprietary tooling, commissioning, operator training, technical support, maintenance and ongoing product development. In Australia, Edge Underground also provides complete design-and-construct delivery for gravity sewer, water and utility pipelines.

Selected clients

Fulton Hogan · John Holland · CPB · McConnell Dowell · Downer · BMD · Laing O'Rourke



CLEANAWAY

Landfill methane abatement services that map and mitigate emissions, and verify reductions for a safer, more profitable landfill

Cleanaway's LERS service combines site-scale methane measurement with landfill operational expertise to turn emissions maps into targeted physical interventions and repeat verification. Developed by a landfill operator on operating landfills, it closes the gap between seeing methane and reducing it: identifying priority sources, diagnosing their cause, implementing practical controls and demonstrating whether the intervention worked.

Landfill operators can invest heavily in wells, capping and gas collection infrastructure while still lacking a site-wide picture of where methane is escaping. This can result in poorly targeted capital, unrecovered gas, avoidable emissions, odour, carbon-credit opportunity cost and regulatory exposure. LERS applies a Map–Mitigate–Monetise workflow, with surveys to locate and quantify sources, interventions such as wellfield optimisation, repairs and capping, and repeat measurement to test results.

Aerial technologies, including Bridger Photonics' Gas Mapping LiDAR®, provide site-scale methane mapping, while Cleanaway's landfill teams investigate the physical cause of emissions and direct interventions. The capability has been developed and operationally deployed across Cleanaway's Australian landfill portfolio, with preliminary field results indicating that targeted interventions can reduce identified emission sources by up to 80%. This field experience has also informed Australia's measurement-based landfill emissions reporting framework.

Up to 80% reduction in targeted sources

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Renewables and Generation · Waste-to-Value Solutions

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What Cleanaway delivers

A managed landfill methane-reduction service, as individual modules or end-to-end: aerial methane mapping, ground investigation, source diagnosis, mitigation planning and implementation support, repeat verification, and assessment of potential carbon, energy, renewable-gas and regulatory value.

Scan to connect

SUSTAINATIVE

Indigenous-led waste, energy and ESG programs that reduce emissions and environmental risk for organisations

Sustainative turns sustainability and net zero objectives into practical site-level systems across waste, energy, water, low-carbon materials, procurement and Scope 3 readiness. Its Indigenous Regenerative Sustainability model embeds First Nations knowledge, evidence-based science and technology directly into operational ESG and environmental systems.

Multi-site organisations often have ambitious climate and ESG targets but fragmented environmental data, inconsistent supplier reporting and limited evidence of actual performance, increasing cost, compliance exposure and greenwashing risk. Sustainative establishes a common environmental baseline across sites, then converts that evidence into practical actions, including waste tracking, energy and water efficiency measures, procurement specifications, supplier KPIs and resource recovery pathways.

For Geelong Cemeteries Trust, Sustainative has delivered environmental sustainability work across 12 sites covering waste, energy, water, sustainable procurement and low-carbon materials, consolidating 175 recorded waste services into a common baseline. Previous delivery includes environmental sustainability management across more than 25 sites for Boral Australia in Victoria and Tasmania, and supplier ESG assessments for Accenture Australia. It also collaborates with IBM on sustainability reporting technology.

12 sites, one baseline | **175** waste services consolidated | **25+** Boral sites managed

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Waste-to-Value Solutions · Energy Systems and Management

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What Sustainative delivers

Consulting and managed program delivery, including multi-site environmental assessments; waste, energy and water programs; Scope 3 readiness; sustainable procurement; low-carbon materials; ESG and supplier risk assessment; workforce capability development; and technology-enabled sustainability and reporting solutions with specialist partners.

Selected clients

Geelong Cemeteries Trust · Boral Australia · Accenture Australia

Scan to connect



CIRCUL-R

Turning plastics and glass waste into circular opportunity through recovery, recycling and sustainable manufacturing

Circul-R recovers mixed plastic and glass waste and turns 95% of it into 80 mm interlocking pavers rated for heavy vehicles — with waste accepted and product supplied from one site and one operator. Every input is a waste stream: its interlocking dovetail paver binds recycled plastic with recovered sand, and its Darwin plant will be the only plastic-to-construction-product line operating in the Northern Territory.

Every kilogram of Darwin's waste plastic leaves the Northern Territory, and 88% of the city's waste goes to landfill because there is nowhere local to process it. Councils, miners and contractors pay to freight a resource thousands of kilometres away, then pay again to import concrete pavers back into the same region. Circul-R puts the entire loop on one slab, so the value, jobs and manufacturing stay in the region.

The model is already in commercial production in Timor-Leste, where Factory Circul-R in Dili has converted post-consumer plastic and glass into construction boards, pavers and kerbing for several years, with products installed across completed projects. Darwin replicates it: equipment is on confirmed order, committed on an operating industrial site at East Arm, and the 1,500-tonne-a-year line is scheduled for commissioning in the first half of 2027, with glass pulverising and solar panel recycling to follow.

95% recovered as product | **1,500 t** a year capacity | **5** direct jobs

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Waste-to-Value Solutions

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What Circul-R delivers

Interlocking polymer sand pavers by pallet or tonne for construction, mining, defence and government buyers; per-tonne waste acceptance for commercial, industrial and municipal plastic; and packaged plant deployment for governments and operators across the Asia-Pacific, including specification, supply, commissioning and operator training.

Selected clients

Caltech Group construction division and third-party customers in Dili, Timor-Leste

Scan to connect





GREEN LOO

Waterless composting toilet systems providing safe sanitation where sewerage, water or conventional infrastructure is unavailable

Green Loo provides waterless sanitation solutions spanning individual homes to high-use community and commercial applications. Combining proven composting technologies with flexible system configurations, it delivers safe, odour-free and cost-effective sanitation with minimal infrastructure, particularly where water, sewerage or conventional wastewater infrastructure is limited or unavailable.

Sewer connections and septic systems can be expensive to install and maintain, particularly for off-grid, remote and infrastructure-constrained sites, and flushing toilets consume valuable water. Green Loo systems need no flushing water or sewer connection: waste is managed on site through natural aerobic composting, with continuous ventilation supporting the composting process and odour control, and straightforward on-site maintenance without reliance on third-party servicing.

The technology is commercially mature, with tens of thousands of installations across Australia and international markets and established distribution in New Zealand and the Americas. One model, now manufactured in Australia, is based on technology recognised with Agenda 21 environmental awards in 1998 and 2005. In 2021 Green Loo helped deliver a sanitation solution for a school and surrounding community on Marakei Island, Kiribati.

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Waste-to-Value Solutions

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What Green Loo delivers

Complete waterless composting toilet systems, including composting chambers, pedestals and supporting components, for projects from individual installations to large-scale sanitation requirements, backed by technical assistance for system selection, sizing and installation.

Scan to connect





BLUEMONT

Mobile flood barriers, recycled rock bags and solar desalination for climate resilience

Bluemont supplies leading mobile flood barriers, rock bags for erosion control and solar desalination solutions, backed by support before, during and after purchase and deployment. Its Boxwall mobile flood barriers can be used many times to prevent repeated floods and are 100% recyclable, while its rock bags are made from 100% recycled rPET and independently proven not to release microplastics.

Bluemont engages with clients, designers and contractors during project development to understand the physical processes involved, such as flooding and erosion, before helping determine the right solution. Its mobile flood barriers form a physical barrier protecting homes, businesses and assets from inundation; its rock bags prevent coastal, riverbank and bridge-scour erosion as an alternative to rock armour, concrete mattresses and gabion baskets; and its solar desalination turns seawater into drinking water, often for remote Pacific Island communities.

Bluemont has supplied more than 10 km of mobile flood barriers to federal, state and local government organisations across Australia, and more than 500,000 rock bags across 1,000 projects in Australia, New Zealand and the Pacific Islands since 2016. It is on the National Emergency Management Agency's national emergency stockpile framework, and trains clients in using its products and supports them during emergency events.

10 km+ flood barriers supplied | **500,000+** rock bags | **1,000** projects

BLUEMONT PTY LTD

Sectors

Sustainable Cities

Key Capabilities

Water and Waste

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What Bluemont delivers

Mobile flood barriers, rock bags for erosion control and solar desalination systems, with product training for clients and on-call support during emergency events.

Selected clients

NEMA · State Emergency Services (NSW, SA, QLD, VIC) · 100+ councils · Transport for NSW · QLD Transport and Main Roads · WA Main Roads · Rio Tinto

Scan to connect

TONKIN + TAYLOR

Environmental, engineering, digital and advisory solutions for sustainable client and community outcomes

Tonkin + Taylor integrates environmental science, engineering and strategic advisory to help governments, utilities and asset owners plan and deliver climate-resilient water, waste and urban infrastructure. Its strength is turning climate, environmental and resource risks into practical strategies, designs and implementable projects across Australia, New Zealand and the Pacific.

Cities and infrastructure owners are managing ageing assets, climate hazards, rising waste volumes and constrained resources, often with decisions fragmented between strategy, science, engineering and delivery. Island markets add limited data, constrained local capacity and exposure to flooding and coastal hazards. Tonkin + Taylor joins these steps up: hazard and risk assessment, options and business cases, resilient design, approvals and procurement, and construction and operational advice.

In Australia, its teams have supported the Victorian Government's Future Coasts programme and the City of Kingston's climate hazard and risk assessment, and developed Wannon Water's Circular Economy Roadmap. They also delivered research and financial modelling on glass recycling for 22 Victorian councils. Across the Pacific, the firm has developed national solid and hazardous waste strategies for the Federated States of Micronesia and Niue, and designed coastal resilience and stormwater improvements in Majuro.

22 Victorian councils modelled | **2** national waste strategies, Pacific

Tonkin+Taylor

Sectors

Sustainable Cities

Key Capabilities

Water and Waste · Waste-to-Value Solutions

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What Tonkin + Taylor delivers

Consulting, technical advisory and design across water resource management, dam engineering, waste, circular economy and environmental management, including sea level rise modelling, coastal structure design, waste strategy, landfill design, material flow mapping and carbon accounting.

Selected clients

Victorian Government · City of Kingston · Wannon Water · Federated States of Micronesia · Niue

Scan to connect



Aqua Ubique
Water for anyone, anywhere

Sectors

Sustainable Cities

Key Capabilities

Water and Waste

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Scan to connect

AQUA UBIQUE

Better water without the bottle: a managed service that makes drinking water from air

Aqua Ubique describes itself as Australia's only managed service for drinking water made from air. Its Aqua Unit replaces the bottled water cooler with a system that generates 10 to 15 litres of drinking water a day from ambient air at the point of use, needing no plumbing or drainage and installing in under 45 minutes.

Construction site offices often have power but no water connection, so drinking water arrives by truck in plastic bottles, at roughly double the cost of generating it on site. The freight and plastic count against project environmental targets. The managed service covers cleaning, maintenance and filter changes, and through its Drop4Drop program every five customer machines fund a free unit for Australians living without safe water.

The technology is commercially deployed and scaling, not in pilot. To 17 September 2026 its fleet had generated 262,260 litres and avoided roughly 17,500 fifteen-litre bottles, with water quality independently verified by Queensland Health and Unitywater. Shadforth Civil's switch funded one of six Drop4Drop units at Cherbourg State School. Across the community, nine units have produced 27,924 litres for more than 350 people. Aqua Ubique was the first Australian recipient of the King's Trust International Global Sustainability Award (2026).

262,260 L water generated | **~17,500** bottles avoided | **< 45 min** installation

What Aqua Ubique delivers

Drinking water as a managed service: customers lease an Aqua Unit for a fixed monthly fee, with installation, servicing and filter changes included.

Selected clients

CPB Contractors · Downer · Shadforth Civil · Sunwater · Sunshine Coast Council · Cherbourg Aboriginal Shire Council



ENVIROMESH®

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Circular Economy

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Scan to connect

ENVIROMESH

Concrete reinforcement made from 100% recycled materials that cuts emissions by 94% and extends infrastructure life

ENVIROMESH is an Australian materials innovator that replaces both the steel and the cement in concrete infrastructure. It extrudes 100% recycled plastic into fibres that take the place of steel reinforcement, and pairs them with Geomix, a polymer manufactured from mining waste that replaces cement — producing longer-lasting infrastructure that needs less maintenance across its whole life. The company has won four awards for its innovations in concrete reinforcement.

Construction is responsible for 40% of the world's CO^2 emissions, with the steel and cement in concrete a major component of that total. By replacing both, ENVIROMESH helps clients meet their emissions-reduction goals — cutting emissions by up to 94% — without increasing the cost of the infrastructure. In practice costs are normally reduced, cracking is eliminated and a tougher, harder-wearing concrete is produced, while rust and spalling are removed and waste is kept out of council and mining landfill.

Conventional reinforcing steel is two-dimensional and does not stop surface cracks from widening and travelling down through the concrete. ENVIROMESH fibres instead create a three-dimensional reinforcement — top to bottom and side to side — delivering high tensile strength that resists cracking, prevents water ingress and extends the life of the asset. The Geomix polymer behaves like concrete but needs no cement or admixtures, and its early-onset hardening allows quicker, easier manufacture. Both are delivered directly to contractors or government pre-mixing companies and added into the concrete mix.

94% CO_2 emissions | **500+** projects delivered | **4** innovation awards

What ENVIROMESH delivers

Recycled-plastic reinforcement fibres and Geomix polymer, supplied directly to contractors and government pre-mixing companies as a drop-in addition to the concrete mix — replacing steel mesh and cement in horizontal infrastructure such as roads, walkways, cycleways, car parks and industrial slabs.

Selected clients

Holcim · Boral · Heidelberg Materials · Hy-Tec (pre-mixing companies) · John Holland · Laing O'Rourke · Seymour Whyte · 60+ councils



HALL

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Climate Change Adaptation

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Scan to connect

HALL CONTRACTING

Dredging and marine infrastructure that protects vulnerable nations from the impacts of climate change

Hall Contracting is Australia's largest dredging and marine infrastructure contractor, delivering complex projects in remote and challenging environments across Australia, South-East Asia and the Pacific. Its particular strength is climate adaptation and coastal protection, underpinned by the logistical capability to mobilise people, plant and equipment to some of the world's most isolated locations.

Low-lying island nations risk losing homes, critical infrastructure, land and entire cultures as rising sea levels, coastal erosion and flooding intensify. Hall responds with land reclamation, coastal protection and sustainable marine infrastructure that shields communities and critical assets — creating safer, more resilient land for future generations. This capability is proven at scale across the Pacific, supported by an established regional fleet of cutter suction dredges, tugboats, barges and civil plant.

In Tuvalu, Hall has delivered major works for the United Nations Development Programme under the Tuvalu Coastal Adaptation Project, creating more than 15 hectares of raised, reclaimed land designed to remain above projected sea levels beyond 2100. In the Marshall Islands, it constructed a 1.8-kilometre seawall on the densely populated island of Ebeye to protect against coastal erosion, flooding and wave impacts.

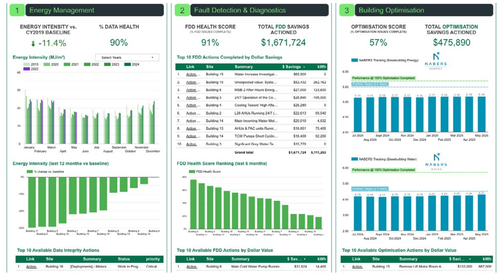
15+ ha reclaimed land, Tuvalu | **1.8 km** seawall, Ebeye | **80+ yrs** marine delivery

What Hall delivers

Specialist dredging, marine infrastructure and climate-adaptation works for governments, multilateral banks and private-sector clients — spanning land reclamation, coastal protection, dredging, and marine infrastructure construction and associated civil works.

Selected clients

Government of Tuvalu · Republic of Kiribati · Republic of the Marshall Islands · Government of the Solomon Islands · Government of Fiji



BUENO ANALYTICS

Building analytics that cut energy use 30% on average across commercial portfolios

Bueno Analytics is Australia's leading building analytics specialist and the only platform built for both commercial real estate and grocery, connecting any building management system, controller or meter into a single vendor-agnostic view. Machine learning runs continuously across HVAC, refrigeration, metering, lighting and solar, turning raw operational data into ranked, costed actions assigned to site teams as trackable jobs.

Commercial buildings waste 20 to 40% of the energy they consume through undetected faults and inefficiencies. The same faults shorten equipment life, drive reactive callouts, and leave owners unable to evidence progress against ESG and net zero commitments. The data to identify these issues already exists in the building — Bueno reads it, connects it, and turns it into action.

Bueno connects to existing systems using open protocols, with no new hardware required. In operation since 2013, the platform covers more than 2,800 buildings and 12.7 million square metres, monitoring 5.3 million data points. Australian-founded and headquartered, it now operates across New Zealand, the United States, the United Kingdom, Europe and Canada. Woolworths Group achieved a 36% emissions reduction, and Dexus saved A$2.8 million.

2,800+ buildings | **12.7M m** monitored | **A$500M** saved | **2.5M t** CO_2 avoided

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Clean Energy · Green Innovation and Skills Development

What Bueno delivers

A SaaS subscription licensed per site or portfolio, covering energy management, fault detection, data-driven maintenance, NABERS and ESG reporting, and refrigeration analytics — with optimisation services in Australia and licensed delivery partners internationally.

Selected clients

Woolworths Group · Dexus · Mirvac · Investa · Scentre Group · NSW Health · Target (USA) · Hudson Yards, New York · 40 Leadenhall, London · Intel

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Melbourne · Brisbane

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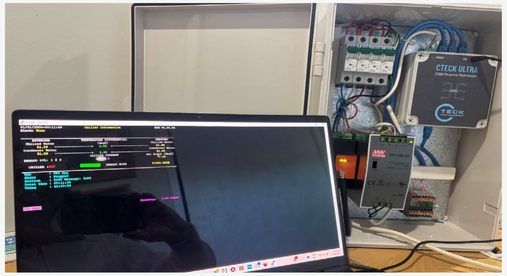
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Scan to connect

CTECK EE

Retrofit chiller optimisation cutting building energy use 8–14% and reducing operating costs



CTECK EE's standout capability is ULTRA, an Australian-developed and Australian-made retrofit technology that optimises chillers to cut energy use by 8–14% and lower emissions in large buildings. ULTRA works with all chiller types, operates with or without a building management system, and delivers proven results across data centres, hospitals and commercial buildings throughout Asia and Australia.

Chillers account for up to 60% of a building's total energy load, yet buildings still face high operating costs, excessive peak-demand exposure and unnecessary greenhouse gas emissions. ULTRA analyses real-time chiller conditions and continuously makes minor adjustments to how the chiller responds to changing building load, reducing unnecessary compressor work, stabilising performance and preventing energy-intensive peaks, without replacing equipment or affecting internal conditions.

ULTRA is commercially deployed at scale across data centres, hospitals, commercial towers, shopping centres and mixed-use precincts, from single-chiller sites to multi-chiller central plants with individual chillers exceeding 1,500 tonnes of cooling capacity. In continuous commercial use for more than five years, it has demonstrated measurable reductions in chiller energy consumption, validated through metered data and independent engineering review.

8–14% chiller energy savings | **1,500+ t** chiller capacity | **5+ yrs** commercial use

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure

What CTECK EE delivers

ULTRA hardware and embedded optimisation logic, installed by the customer's preferred mechanical contractor and then commissioned and fine-tuned by CTECK EE engineers, with a commissioning and support engagement to ensure correct setup and reliable long-term performance.

Customers

Major data centres · national telecommunications providers in Australia, Singapore and the Philippines · public and private hospitals · shopping centres · large commercial office buildings

Address

HQ 11 Keirnan Street, Redland Bay, Queensland

Contact

Chris Rogerson, Managing Director
chris@cteck.com.au

Website: **cteck.com.au**

Scan to connect



ENERGY ESTATE

Integrated renewable energy and digital infrastructure precincts that enable decarbonisation, electrification and economic growth

Energy Estate identifies, coordinates and delivers complex infrastructure opportunities by bringing together land, energy resources, customers, networks, capital and communities into a single integrated development platform. It unlocks value at the intersection of renewable energy, digital infrastructure and regional development, creating projects that are commercially viable, strategically located and designed to deliver enduring local and regional value.

Australia's transition to a low-carbon economy requires integrated infrastructure that connects renewable energy supply, industrial demand, digital infrastructure, investment capital and regional development. The Australian Government's Net Zero Plan identifies electrification and clean electricity as foundational to decarbonising the economy, while data centres are forecast to account for up to 11% of Australia's electricity consumption by 2035.

As a developer of large-scale integrated energy and digital infrastructure projects, Energy Estate applies a values-based, socially respectful commercial development methodology. This approach has produced successful energy infrastructure, evidenced by the sale of Bomen Solar Farm to Spark Infrastructure at financial close and the sale of Sky Ridge Wind Farm to Origin Energy.

What Energy Estate delivers

Co-development, co-ownership or sale of large-scale energy and digital infrastructure assets, together with long-term supply of low-cost, low-carbon energy such as electricity, liquid fuel or ammonia.

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure

Address

HQ Suite 10, 25 Bligh Street, Sydney, New South Wales
Melbourne · Brisbane · California · London

Contact

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LIGHTNING PROTECTION INTERNATIONAL

Delivering lightning, surge and earthing solutions for critical Australian infrastructure





LPI® Comprehensive Lightning Protection

We take the hits, so you don't have to!

Lightning Protection International (LPI) is an Australian-owned manufacturer providing engineered lightning, surge and earthing solutions that improve the resilience and reliability of renewable energy, energy storage and critical infrastructure assets. It is recognised for combining proprietary protection technologies with in-house design expertise to deliver complete, project-specific solutions.

Renewable energy, battery storage, mining and critical infrastructure operators face costly equipment damage, unplanned outages and safety risks from lightning strikes and electrical surges. LPI takes a systematic approach that combines lightning risk assessment, direct-strike protection, surge protection and engineered earthing and bonding, using proprietary technologies such as advanced air terminals, insulated downconductors and surge protection devices to safely manage lightning energy and minimise damaging overvoltages.

LPI's technologies are commercially mature and deployed across renewable energy, mining, utilities, telecommunications, defence, marine and critical infrastructure projects. Its proprietary HVSC Plus® insulated downconductor technology is designed to minimise side-flashing and uncontrolled discharges, while its in-house engineering team delivers project-specific designs in accordance with Australian and international standards. Projects range from industrial facilities and renewable energy assets to critical infrastructure and transport networks.

What LPI delivers

Supply of lightning protection, surge protection and earthing systems, supported by engineering design, risk assessment and technical consulting — including advanced air terminals, insulated lightning downconductors, surge protection devices, earthing and bonding systems, and project-specific design packages for renewable energy, energy storage, mining, utilities and critical infrastructure.

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Renewables and Generation

Address

HQ 49 Patriarch Drive, Huntingfield, Tasmania

Contact

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Scan to connect



CALIX

Lower cost, lower carbon metal and mineral processing for the world's essential materials

Calix is an Australian technology company, listed on the ASX, whose patented indirect heating technology enables electrification, flexible energy use, resource efficiency and capture of unavoidable emissions in heavy industry. From a single technology platform, it is building commercial applications across cement and lime, iron and steel, alumina, critical minerals, water treatment and carbon dioxide removal.

High-temperature metal and mineral processing typically relies on fossil-fuel combustion, offers limited options for electrification and generates unavoidable process CO_2. By separating the heat source from the material being processed, Calix allows customers to electrify these processes, use renewable energy flexibly, improve energy efficiency and capture concentrated process CO_2 streams , creating pathways to green iron, low-carbon cement and sustainable critical minerals.

Calix operates commercial production facilities in Australia supplying magnesium hydroxide for water and wastewater treatment. Its subsidiary Leilac has demonstrated the technology for cement and lime in Europe. For green iron, a 30,000 tonne-per-annum Zesty demonstration plant is being developed in Western Australia with A$44.9 million in ARENA support, and with PLS it has built a commercial demonstration Mid-Stream plant that uses electric calcination to process spodumene into a low-carbon lithium salt at the mine site.

30,000 tpa green iron demonstration | **A$44.9M** ARENA support | **COP29** Net-Zero Industry Award

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Sustainable Mining Technologies · R&D and Innovation

Address

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Contact

Michael Walsh, General Manager, Group Corporate Affairs
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What Calix delivers

Non-exclusive technology licensing, supported by engineering and technical services, demonstration and pilot material testing, and commercial project development support for industrial decarbonisation projects.

Selected clients

Rio Tinto · Hydro · PLS · Ambuja Cements · Heidelberg Materials · Cemex · Frontier

Scan to connect





RECTIFIER TECHNOLOGIES

High-efficiency power conversion systems for the grid, telecom, critical infrastructure, EVs and data centres

Rectifier Technologies designs and manufactures high-efficiency power conversion and reliable DC power systems for applications where power availability is critical, including rectifier modules, battery chargers, DC UPS systems and high-power EV charging modules. The business is supported by more than 30 years of Australian switched-mode power-electronics engineering.

Critical infrastructure operators cannot afford interruptions to DC power: loss of supply can disable protection systems, communications and control equipment, potentially causing downtime, equipment damage or safety risks. Rectifier Technologies' rectifier systems are modular and hot-swappable, so they can be configured in parallel redundancy to keep operating even if a unit fails, reducing mean time to repair, while battery-management functions in its controllers enable remote monitoring.

The company has demonstrated commercial supply at significant scale, including approximately US$20 million of orders from Tritium and US$22 million from i-charging for EV charging power modules. Its RT7, RT9, RT10, RT11 and RT12-based systems are deployed in substations, defence, telecommunications and other industrial environments, and its RT22 EV charging module is certified by TÜV SÜD to UL 2202 and CSA C22.2 No. 107.1.

30+ yrs engineering | **US$22M** i-charging | **US$20M** Tritium | **1000V** EV modules

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure

Address

HQ 97 Highbury Road, Burwood, Victoria
Singapore (local sales and support) · Johor, Malaysia (production)

Contact

David Xu, Chief Financial Officer and General Manager
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What Rectifier Technologies delivers

Hardware and engineered power-system solutions, including modular DC power systems, battery chargers, DC UPS systems and powershelves using switched-mode rectifier modules from 12V to 240V, controllers for remote monitoring and battery management, and high-power EV charging modules up to 1000V.

Selected clients

Agilent · CEA · Swift Industrial Power · Efacec · i-charging · ZOPF · Tritium · Wavetech · Colterlec · Krydon Group

Scan to connect





CC PINES
DESIGN & CONSTRUCT

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Waste-to-Value Solutions · R&D and Innovation

Address

HQ 2087 Oxford Falls Road, Oxford Falls, New South Wales

Contact

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Scan to connect

CC PINES

Modular infrastructure for governments and industry, reducing construction waste and remote-project delivery risk

CC Pines combines an award-winning Australian modular construction model with nearly 50 years of complex-project experience. Buildings are designed and fully fitted out in Australia, certified for container transport and shipped as standard cargo for rapid deployment to remote and logistically difficult locations, reducing on-site disruption, construction waste and embodied carbon.

Remote and international projects face long supply chains, limited skilled labour, difficult logistics, security constraints and costly site mobilisation, which increase programme, quality, environmental and delivery risk. CC Pines designs around these constraints before mobilisation, shifting fabrication, fit-out and commissioning into a controlled Australian factory and assembling modules at destination with local workforce participation.

For the Australian Embassy in Rabat, Morocco, CC Pines delivered a $9 million Design & Construct solution of 15 prefabricated modules and 450 m² of fitted diplomatic workspace, winning the 2021 Procore Award for Development Innovation. It delivered a 132 m suspension bridge in a World Heritage-listed environment at Tully, Queensland, and the $72 million Blackrock Camp in Fiji, which generated 1,100 local jobs. It is currently delivering DFAT's Australian High Commission in the Solomon Islands.

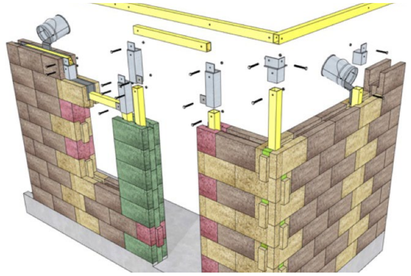
$72M Blackrock Camp, Fiji | **1,100** local jobs created | **15** modules shipped to Morocco

What CC Pines delivers

Design & Construct and construct-only delivery, modular building design and deployment, specialist civil and structural infrastructure, and project and logistics management — from Australian fabrication and factory commissioning through international shipment, on-site assembly, local workforce training and supply-chain development.

Selected clients

Australian Department of Defense · DFAT · US Department of Defense / NAVFAC · Bureau of Meteorology · NSW Parliament House



HEMPBLOCK®
INTERNATIONAL

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure

Address

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Warehouse & Training Centre, Corbould Park, Queensland

Contact

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Scan to connect

HEMPBLOCK INTERNATIONAL

A patented carbon-negative building system enabling healthier, safer and more energy-efficient buildings

HempBLOCK International delivers an integrated, carbon-negative walling system that combines factory-manufactured hemp-lime blocks with its patented load-bearing construction technology. A single HempBLOCK wall provides insulation, thermal mass, acoustic control, airtightness, moisture regulation, fire resistance and protection against mould and pests — functions that ordinarily require numerous materials, layers and specialised trades.

The construction industry must deliver more buildings amid rising material and labour costs, skilled-trade shortages and tougher carbon and energy-performance requirements. Conventional external walls are assembled from many separate layers and trades, adding time, waste and defect risk, while many completed buildings still need substantial energy for heating and cooling. HempBLOCK's interlocking blocks are dry-stacked around engineered posts and beams, reducing construction complexity and operational energy demand.

Industrial hemp absorbs atmospheric carbon as it grows, and that biogenic carbon stays stored in the blocks; the completed wall system has calculated net embodied carbon of approximately –56 kg CO_2e per square metre. The system holds a CodeMark Certificate of Conformity under the National Construction Code and achieved a 180/180/180 fire-resistance level for load-bearing walls. Completed residential and commercial projects span Australia, the United States and Fiji, including the Zimmermann store in Sydney.

–56 kg CO_2e/m_2 | **180/180/180** fire resistance | **Rw 43** acoustic | **100 yrs** reference life

What HempBLOCK International delivers

A complete building-system solution — blocks, the project-specific load-bearing structural system and wall components — with architectural design, engineering, thermal assessment, BIMx modelling and material schedules, plus builder training and technical support throughout construction.



BLIGH TANNER

Structural, façade, civil, environmental, electrical and water engineering consultancy known for personalised service and innovation

Bligh Tanner is a privately owned engineering consultancy with eight working Directors and approximately 73 technical staff, providing civil, structural, façade, environmental, electrical and water engineering for large and small projects. Its flat structure keeps senior engineers closely involved with clients and projects, across sectors including education, health, sport, community infrastructure, water and environment, transport and energy.

Its civil and water team covers integrated water cycle management, water sensitive urban design, flood, drainage and overland flow modelling, creek naturalisation, climate change adaptation strategies and renewable energy developments, while its structures and façade team delivers buildings, bridges and specialist structures. Projects are led by senior engineers, and around 30% of the structural engineering team have 20 years' experience or more.

Bligh Tanner provides virtual design and digital modelling, including Building Information Modelling, computational design, construction-sequence simulation and visualisation, so structural, architectural, civil and services designs can be coordinated and priced more accurately before construction.

~73 technical staff | **8** working Directors | **6** engineering disciplines

Sectors

Sustainable Cities

Key Capabilities

Green Infrastructure · Water and Waste

Address

HQ Level 9, 269 Wickham Street, Fortitude Valley, Queensland
Sydney · Melbourne · Adelaide

Contact

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Scan to connect

What Bligh Tanner delivers

Engineering consulting across civil, water and environment, structural, façade and special structures, including development feasibility and approvals, flood and drainage studies, water sensitive urban design, technical advice and peer review, and digital design and visualisation.

Selected clients

Brisbane City Council · Logan City Council · Ipswich City Council · Redland City Council · Cox Architecture · Hutchinson Builders · The University of Queensland · QUT



NOVASOL

Australia led infrastructure engineering helping asset owners build connected, resilient and energy efficient critical sites

Novasol integrates field evidence with connectivity engineering, digital asset documentation and technical assurance for critical infrastructure. From RF surveys and infrastructure assessments to CAD and as-built documentation, 3D capture and secure-network coordination, it turns complex site and system information into decision-ready work packages for owners, operators and delivery partners.

Infrastructure owners often procure surveys, connectivity design, asset documentation, security and delivery assurance as separate activities, creating incomplete site information, duplicated effort, redesign and delays. Novasol scopes the decision required, captures or reviews site and system evidence, and combines connectivity engineering, digital asset information and technical assurance into one controlled work package.

Novasol's core telecommunications engineering and technical services are commercially delivered across greenfield, upgrade and small-cell environments. Analysis, design, documentation and coordination are delivered from Australia, with site attendance and field services may be delivered directly by Novasol where appropriately authorised, or through authorised in-market resources or partners where local licensing or jurisdiction-specific requirements apply. In its pipeline, Novasol is developing SEP, a separate pre-commercial and pre-MVP energy decision-support concept for which it has lodged an Australian provisional patent application, and is seeking pilot sites, research validation and technology and integration partners.

Sectors

Sustainable Cities

Key Capabilities

Smart Urban and Transport Systems · Energy Systems and Management · R&D and Innovation

Address

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Contact

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What Novasol delivers

Scoped consulting and engineering packages: RF and network planning and surveys; infrastructure feasibility, audits and assurance; CAD and as-built documentation; drone and 3D asset capture; LoRaWAN and IoT design; secure-network, data-centre and cyber-governance advisory; and remote technical coordination.

Scan to connect



JANUS ELECTRIC

Converting diesel truck fleets to electric, with swappable battery infrastructure

Janus Electric converts existing diesel trucks to battery-electric instead of replacing them. A retrofit kit removes the diesel motor and fuel tank and fits an electric motor and battery receptacle, keeping existing assets on the road for longer, cutting both fleet capex and opex whilst transport emissions.

Fleet operators face high capital costs for new electric trucks and uncertainty over where and when they can charge. Janus turns the cost of owning and maintaining batteries into a subscription, with swappable batteries that keep truck downtime to a minimum. Its charging stations plug into existing grid connections at truck depots and warehouses, and its telematics optimise energy costs across the fleet.

In Australia, Janus has 28 trucks on the road, nine charging stations across New South Wales, Victoria and South Australia. As at 30 June 2026, the fleet had travelled more than 750,000 kilometres and completed over 4,000 battery swaps across a range of heavy transport applications, including cement, cold storage, aggregate haulage and container freight. In North America, its contracted order book reached 124 truck conversions across the US and Canada by July 2026, worth roughly A$64.6 million in US orders alone. Its JCM540 battery-electric conversion kit is listed as eligible under California's Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP). and its JCM 540 conversion kit has formal CARB approval under California's HVIP program.

124 North America orders | **28** trucks on road | **11** charging stations

Sectors

Sustainable Cities

Key Capabilities

Smart Urban and Transport Systems

Address

HQ 5 Catamaran Road, Fountaindale, New South Wales

Contact

Kevin Waller, Head of International Business Development
kevin.waller@januselectric.com

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LinkedIn: **linkedin.com/company/januselectric**

What Janus Electric delivers

Diesel-to-electric conversion kits, swappable Batteries-as-a-Service, charging stations and telematics for data analysis and reporting, provided as a complete ongoing service for fleet operators.

Selected clients

Cement Australia · New Cold

Scan to connect

Sustainable mining

Australia is a global leader in mining and mining equipment, technology and services (METS), with decades of experience supporting some of the world's largest and most complex resource operations. This experience has enabled Australian companies to develop proven solutions that lift productivity, strengthen safety and improve environmental performance.

Australian businesses are delivering capabilities across mine electrification, emissions reduction, water management, tailings and waste solutions, critical infrastructure, digital technologies and operational performance. These solutions help mining companies reduce environmental impact, improve resource efficiency and build more resilient operations.

Developed and tested in demanding operating environments, Australian METS are supporting the responsible supply of the minerals and resources needed for the global energy transition. Australian companies are helping mining operations improve productivity, safety and sustainability through innovations in mine planning, automation, electrification, water management, resource recovery and emissions reduction. Combined with globally recognised expertise in workforce development, operational safety and mine management, these capabilities help customers improve performance, reduce environmental impacts and build more resilient mining operations

The companies featured here showcase Australia's world-class mining capability. Their equipment, technologies and specialist services support resource projects in global markets to improve performance and meet evolving environmental, operational and community expectations.

Sustainable mining subsectors

Zero carbon mine / small footprint mine

Companies that provide solutions to reduce emissions from mining operations, including renewable power generation, electric vehicles and energy efficient systems.

IHC Robbins
HYDI Hydrogen
3ME Technology
Quantum Ground Stabilisation

Waste free mine / smart water mine

Circular economy methodologies that can take mine waste and turn it into valuable building materials, energy technologies and precious resources. Solutions that can protect our most precious shared global resource – water. Ranging from mine water management and monitoring through to water treatment and desalination.

Intermodal Solution Group
Nomad Atomics

Community mine

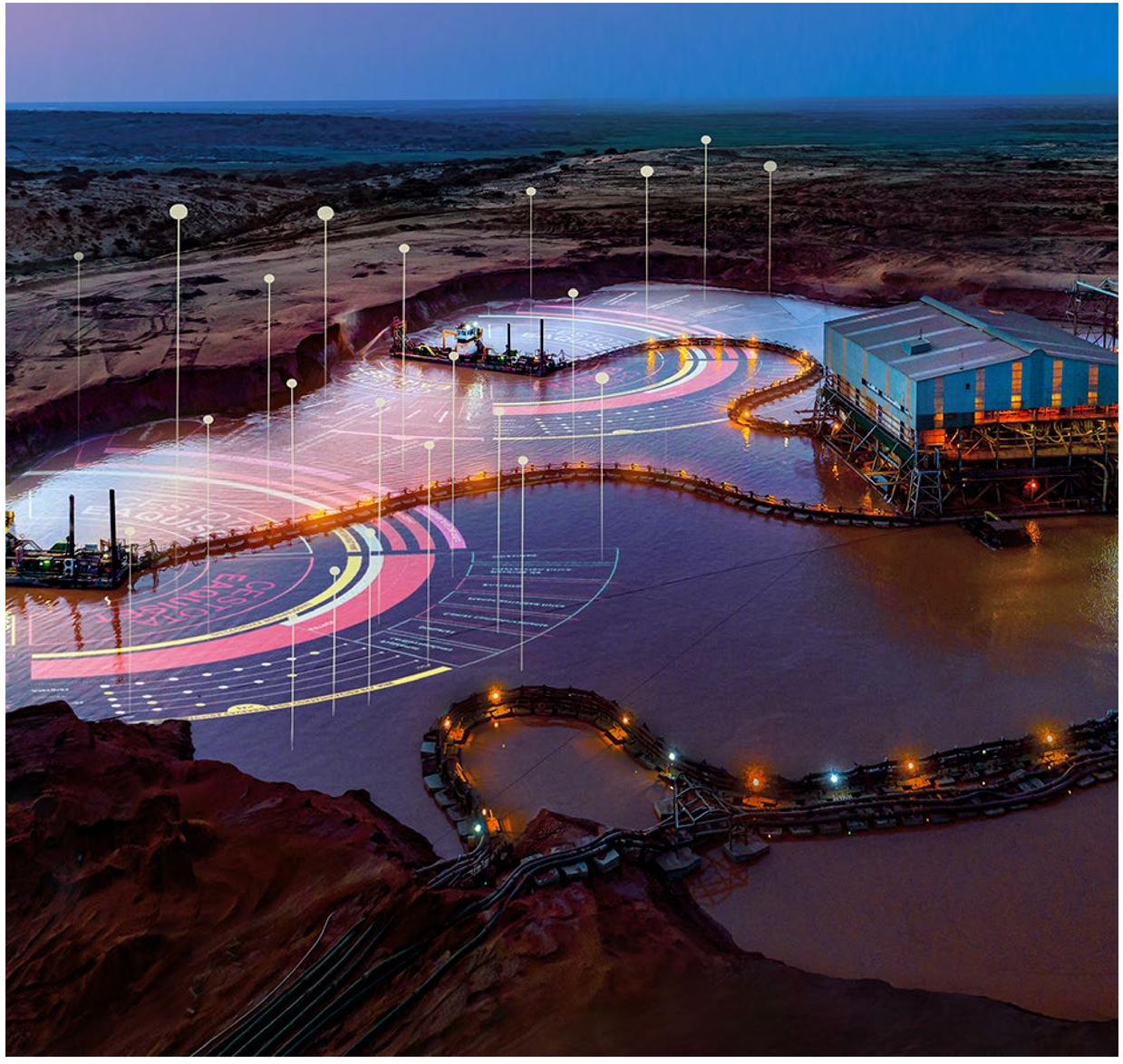
Re-imagining the traditional relationships between mines and communities to create value for local stakeholders, preserve cultural artefacts and improve the public perception of mining.

PX4 Software

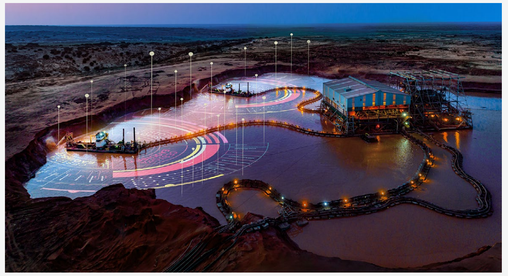
Sustainable mining technologies

Sustainable mining technologies refer to specialised tools, equipment, automation systems, and environmental management processes designed to minimise ecological harm, reduce greenhouse gas emissions, and conserve water during mineral extraction.

Optalert
OLEOLOGY
Electric Power Conversions Australia
PHIBION
XDR
Woolpert
VERIDAPT
Mining3
Maptek



IHC Robbins, Moma Titanium Minerals Mine, Mozambique, Africa



IHC ROBBINS

Electrifying fluid bed dryers delivers lower emissions, improved efficiency, and sustainable processing outcomes

IHC Robbins, operating as IHC Mining, is a leader in mineral processing innovation, specialising in the design and integration of electrified drying solutions for resource operations. Its expertise combines process engineering, equipment design and practical implementation to help clients reduce emissions, improve energy efficiency and enhance operational performance. Its proprietary electrified drying technology reduces emissions by replacing fossil fuel-based process heat with electricity.

Customers operating gas-fired fluid bed dryers face high energy consumption, volatile fuel costs and significant carbon emissions. These systems can make drying one of the most energy-intensive stages of mineral processing, creating both a substantial operating cost and a growing decarbonisation challenge. Customers need a practical way to reduce emissions and energy exposure without compromising production performance or reliability.

IHC Mining's electrified drying technology replaces gas-fired heat with electric energy to generate the heat required for fluid bed drying. This directly removes fossil fuel combustion from the drying process, reducing associated emissions and exposure to gas costs. The solution is designed to integrate with existing mineral processing operations while maintaining the drying performance required for production, and has progressed beyond concept development toward commercial deployment at industrial scale.

Sectors

Sustainable Mining

Key Capabilities

Zero Carbon Mine / Small Footprint Mine

Address

HQ 2/112 Darlington Drive, Yatala, Queensland

Contact

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g.dcosta@royalihc.com

Website: **royalihc.com/mining**

What IHC Robbins delivers

Design, engineering and delivery of electrified fluid bed drying systems, including technology supply, equipment integration, engineering support, project delivery and commissioning — providing an end-to-end solution tailored to existing or new mineral processing operations.

Scan to connect





HYDI HYDROGEN

Hydrogen-on-demand units retro-fitted to heavy transport to cut diesel fuel and emissions

HYDI Hydrogen manufactures on-demand hydrogen generation units that optimise engine combustion and reduce emissions at the source. Operating with zero onboard hydrogen storage, its chemical-free electrolysis systems retrofit safely onto existing diesel assets, maximising torque and delivering fuel savings that pay for the technology while lowering overall operating costs. The compact, self-contained units allow immediate carbon reduction without fleet replacement.

Heavy machinery and transport operators are caught between soaring diesel costs and strict regulatory mandates to lower their carbon footprint. Transitioning to new electric or fuel-cell technology is financially restrictive, requiring total asset turnover and complex on-site fuel infrastructure. Operators face a costly dilemma: accept low fuel margins and toxic diesel exhaust, or stall operations trying to fund an entirely new zero-emission fleet.

HYDI's ruggedised units use Proton Exchange Membrane cells to generate hydrogen from distilled water in real time, requiring no dangerous high-pressure gas storage. An adaptive electronic control unit dynamically introduces hydrogen into the diesel air intake to optimise combustion efficiency at the source, extending the profitable lifecycle of existing heavy assets. Developed over more than a decade of engineering, the technology is fully commercialised and actively deployed across the transport, construction and waste sectors.

8–18% diesel saved | **80%** particulates | **17%** CO_2 emissions | **100 t** road train loads

Sectors

Sustainable Mining

Key Capabilities

Zero Carbon Mine / Small Footprint Mine · Transport · Marine

Address

HQ Quality House, 117B Tapleys Hill Road, Hendon, South Australia
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Contact

Craig Gilbert, General Manager Sales & Marketing
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What HYDI delivers

Equipment supply of rugged hydrogen injection units, deployed globally via local distributors and certified installers, alongside direct asset sales, maintenance contracts and technology licensing for large-scale fleets.

Selected deployments

Holcim Australia — HY2500 units retrofitted to 145-tonne rated Scania V8 triple road trains in the Pilbara · MetCONNX Alliance — heavy infrastructure machinery on the METRONET Byford Rail Extension

Scan to connect





3ME TECHNOLOGY

3ME TECHNOLOGY

Safer, cleaner and more efficient energy solutions that cut fuel use, lower emissions and accelerate industrial decarbonisation

3ME Technology is Australia's off-highway electrification specialist, delivering complete battery, power and vehicle electrification systems for safety-critical industrial and defence applications. Its strength is integrating batteries, controls, software and operational support into proven end-to-end solutions that reduce emissions, improve safety and lower operating costs.

Mining and industrial operators face rising fuel costs, decarbonisation pressure and safety challenges associated with diesel-powered equipment. 3ME integrates batteries, power systems, controls and software into existing and new platforms, allowing operators to reduce diesel dependence, cut operating costs and emissions, and improve workplace safety without compromising performance in harsh and remote environments.

The technology is commercially deployed, with more than 100 specialised battery systems delivered across Australia and over a decade of electrification experience. 3ME pioneered battery-electric vehicle solutions in Australian underground mining and has developed programs spanning mining vehicles and hazardous-area equipment through to defence platforms, including Australia's first hybrid-electric Bushmaster demonstrator. In 2026 its EdgeVOLT® battery system was selected for the U.S. Defense Innovation Unit's PRISM prototype program.

100+ battery systems delivered
10+ yrs electrification experience

Sectors

Sustainable Mining

Key Capabilities

Zero Carbon Mine / Small Footprint Mine

Address

HQ 36 Munibung Road, Cardiff, New South Wales
Perth, Western Australia

Contact

Tarrant Fuller, Chief of Staff
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What 3ME delivers

Battery supply, vehicle and equipment electrification, turnkey system integration, engineering services, software and telemetry solutions, and lifecycle support from prototype development through to commercial deployment, for mining, defence, maritime and industrial applications.

Selected clients

Australian Defence Force · Thales Australia · BAE Systems · Rio Tinto · Fortescue · South32 · Hitachi (Sullair) · Downer · Penske · Drilling OEMs and contractors

Scan to connect



QUANTUM GROUND STABILISATION

Waterproofing that stabilises weight-bearing subgrades

Quantum Ground Stabilisation uses a chemical process to waterproof and stabilise roads and other load-bearing surfaces, with applications not confined to mining. It prevents the capillary and topical ingression of water into the sub-base, creating long-term serviceability of road surfaces, particularly in impoverished environments.

The process chemically prevents the movement of water, creating long-term impermeability for roads and all weight-bearing surfaces. The surface is pulverised to a depth of 250 mm while the company's powder and liquid formulations are introduced concurrently.

The company is currently trialling the process with the Queensland Department of Transport and Main Roads on a road surface in western Queensland.

Sectors

Sustainable Mining

Key Capabilities

Zero Carbon Mine / Small Footprint Mine

Address

HQ 14/70 Norman Crescent, Norman Park, Queensland

Contact

Michael Farrar, Proprietor
mlf@quantumgs.com.au

Website: **quantumgs.com.au**

What Quantum Ground Stabilisation delivers

In-situ waterproofing and stabilisation of roads, subgrades and other weight-bearing surfaces, for developed and undeveloped communities.

Selected clients

Queensland Department of Transport and Main Roads · Clark Civil

Scan to connect



INTERMODAL SOLUTIONS GROUP

Containerised storage and ship loading for bulk commodities, keeping product out of rivers and oceans

Intermodal Solutions Group (ISG) supplies a patented logistics, storage and ship-loading solution for bulk commodities such as copper, zinc, urea and grain. Its patented lid lifter on the container tippler, together with its purpose-designed lid and container, means bulk products can be loaded at any container port in a clean environment, with the containers also serving as storage sheds.

Using conventional logistics, storage and ship loading, mining companies can lose up to 5% of their product — a loss that becomes an environmental problem, polluting the rivers and oceans around loading ports. ISG's containerised approach removes the double handling that makes conventional storage labour-intensive and dusty, and is designed to deliver zero product loss while keeping ports clean.

Chile benchmarked ISG's solution in Australia 14 years ago, and around 90% of Chile's copper miners now use it. Chile has since opened the world's first automated bulk terminal using the ISG solution, TGN, which runs on renewable energy and specialises in copper loading. ISG also supplies specialised containers for general freight and the remediation industry, where containerising contaminated soil makes site clean-up a cleaner process.

~90% Chilean copper miners | **Up to 5%** product loss avoided

Sectors

Sustainable Mining

Key Capabilities

Waste Free Mine / Smart Water Mine

Address

HQ 210/33 Lexington Drive, Bella Vista, New South Wales

Contact

Garry Pinder, Managing Director
gpinder@isgpts.com

Website: **pittoship.com**

What ISG delivers

A logistics, storage and ship-loading solution for copper, zinc, urea, grains and other commodities, using patented containers, lids and tippler equipment, for greenfield or brownfield ports.

Selected clients

Codelco · BHP · Rio Tinto · Anglo American · Teck · OZ Minerals · Exxaro · Tronox · Aurizon · DP World

Scan to connect





NOMAD ATOMICS

Quantum gravity monitoring for improved resource recovery and reduced mining impacts

Nomad Atomics develops and deploys quantum gravity surveying systems and advanced analytics that measure underground mass change and cave evolution in operating mines. Its world-first deployable absolute gravimeter gives cave mines direct, repeatable subsurface measurements, enabling time-lapse 3D cave monitoring that improves mine planning and operational safety.

Cave mine operators rely on indirect measurements and sparse data to understand cave growth and material movement, which can raise safety risks, reduce ore recovery, increase waste extraction and delay operational decisions. Nomad's gravity surveys measure changes in subsurface mass over time and convert them into quantitative 3D models of cave development, helping operators target ore recovery and minimise unnecessary material movement.

The solution combines the world's first survey-style absolute quantum gravimeter for underground deployment with proprietary gravity inversion, data analytics and volumetric modelling software, providing direct observations of cave evolution that conventional monitoring cannot. It has been deployed with Tier 1 mining companies in active underground cave mines, and the same platform supports carbon capture and storage verification, groundwater monitoring and municipal leak detection.

Sectors

Sustainable Mining

Key Capabilities

Zero Carbon Mine / Small Footprint Mine · Water and Waste · Waste Free Mine / Smart Water Mine

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What Nomad Atomics delivers

Quantum-enabled subsurface intelligence through proprietary hardware, survey operations and analytics, for underground cave mine monitoring, resource definition, CCS measurement, monitoring and verification, groundwater monitoring and infrastructure assessment.

Scan to connect





SOFTWARE
SOFTWARE WITH FLAIR

Sectors

Sustainable Mining

Key Capabilities

Community Mine

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Scan to connect

PX4 SOFTWARE

Jurisdictionally specific tenement and land management software

PX4 Software provides the only jurisdictionally specific tenement and land management system in the world, centralising and streamlining the management of not just tenure, but agreements, land access, stakeholder and community engagement, and much more. Its compliance workflows are designed for operation in every jurisdiction in which its clients operate, streamlining compliance and governance while eliminating information silos across interconnected teams.

PX4 reduces the administrative burden of land administration by 30%, providing better visibility, a vehicle for capturing human IP, and a centralised database of all land and approval-related compliance. Its workflows are created by distilling legislation and regulations into simple-to-follow steps that capture everything clients need to do to maintain their social licence to operate.

PX4 is an enterprise-grade land management system used by globally leading mining and exploration companies. It operates in more than 60 jurisdictions globally, with a strong presence across Australia, the Americas and Africa.

30% land administration burden | **60+** jurisdictions

What PX4 delivers

An enterprise-level land management solution delivered as a SaaS subscription, digitising clients' land obligations across tenure, approvals, agreements, objections, land access, and stakeholder and community engagement. It integrates natively with ERP and GIS systems and produces many of the statutory reports needed for governance and compliance.

Selected clients

Teck Resources · Fortescue · Eramet · Glencore · Ivanhoe Mines · SQM



OPTALERT

Driver drowsiness detection and alerts that reduce accident risk

Optalert developed the Johns Drowsiness Scale™, an algorithm that objectively quantifies deterioration in cognitive function and remains the only scientifically proven, objective measure of drowsiness and impairment. The firm holds multiple patents on this proprietary biomarker, which Harvard Medical School has deemed "commensurate with gold standard laboratory measures", and it warns of early-stage drowsiness 15–30 minutes before a driver has microsleeps.

Its Eagle system provides medically validated fatigue management for mining, transport, rail and other fleet industries. According to an independent investigation by a large iron ore mine, the technology increased production by 5.0% and decreased maintenance costs by 4.1% and fuel costs by 1.8% over a five-year period.

Eagle Glasses worn by drivers capture eyelid movements at 500 frames per second, and a tablet in the vehicle computes the driver's precise drowsiness level every minute. As risk approaches a critical level, the driver and the monitoring team are alerted so the fleet operator can intervene. Validated in more than 140 peer-reviewed publications, the technology has delivered over one billion JDS scores to drivers across six continents, with zero fatalities due to fatigue among protected drivers in more than 18 years of operation.

140+ peer-reviewed publications | **1B+** JDS scores delivered | **500 fps** eyelid tracking | **0** fatigue fatalities

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies

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What Optalert delivers

Eagle Glasses and Eagle Industrial ruggedised tablets for fleet drivers, with an optional Eagle Cam to detect distraction and phone use, supported by subscriptions to the Eagle Eye real-time monitoring platform and the Eagle Insights platform, which surfaces the greatest contributors to risk in a fleet.

Selected clients

BHP · Anglo American · Vale · Newmont · De Beers Group · Aurizon · Usiminas · Fiji Water · GE · Qantas

Scan to connect





OLEOLOGY

Advanced water treatment systems for energy and industry that remove PFAS, hydrocarbons and mercury for water reuse

OLEOLOGY engineers and delivers advanced water treatment systems for complex industrial and resource-sector applications. Its capability spans PFAS, hydrocarbons, mercury and difficult wastewater, combining advanced treatment technologies with in-house process engineering and modular system design to improve water quality, enable reuse and reduce operational and environmental impacts.

Energy, mining and industrial operators face complex wastewater that often requires costly, energy-intensive or poorly matched treatment systems, restricting water reuse and creating environmental and regulatory risk. OLEOLOGY engineers each system around the site's water chemistry, contaminant profile and operating requirements, using trials to optimise performance before deployment and avoid unnecessary equipment, energy and complexity.

OLEOLOGY has commercially deployed engineered water treatment and recycling systems across Western Australian mining operations. In 2020 it redesigned a gold mine's wash-water treatment as a 500 kL/day containerised plant that recycles treated water for reuse, delivered on time, on budget and with no variations or incidents. A Pilbara heavy-vehicle wash-bay system treats 1,220 m²/day to typical TPH below 5 ppm, and a Pilbara retrofit using MyCelx achieved below 10 ppm TPH at 2.5 times the existing peak flow without additional capital expenditure.

500 kL/day gold mine recycling | **1,220 m /day** Pilbara wash-bay | **< 5 ppm** typical TPH

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies · Water and Waste · R&D and Innovation

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What OLEOLOGY delivers

End-to-end water treatment engineering and delivery, including process design, technology selection, consulting, bench and pilot trials, equipment supply, modular treatment systems, commissioning and optimisation for energy, mining, offshore and industrial applications.

Customers

Major multinational mining and resource companies, including iron ore and gold operations in Western Australia · oil and gas, marine, industrial and government customers

Scan to connect





ELECTRIC POWER CONVERSIONS AUSTRALIA

EPCA provides battery-electric powertrain solutions and fleet electrification services for heavy mining and industrial equipment

Electric Power Conversions Australia (EPCA) converts diesel mining dump trucks and wheel loaders to battery-electric, using a proprietary powertrain, vehicle control unit (VCU) software and three patented subsystems. It is the first company to successfully build, test and validate battery-electric retrofit solutions for CAT 777 haul trucks and CAT 988 loaders, giving miners a lower-cost decarbonisation pathway that retains existing OEM equipment.

Diesel haul trucks and loaders cost around $91 an hour in fuel, against $27 an hour for the electric equivalent. No manufacturer sells a commercial battery-electric CAT 777 or CAT 988. EPCA strips the diesel components back to the chassis and rebuilds the machine with a battery pack, electric drive motors and its own VCU, so operators and maintenance crews keep working on equipment they already know.

EPCA's E-Powertrain pairs the battery and motors with three patented subsystems: Power Sync Shift automatic transmission, an Integrated Retarder System for regenerative braking, and ThermaCool thermal management. The E-777 retrofit, completed in 2024 at TRL 6, was tested at Bakers Hill, where representatives from BHP, Rio Tinto and NSR operated the machine. The E-988 loader is moving to a field trial at a WA mine under a commercial dry-hire agreement, and an E-793 is at TRL 2 using a truck donated by Northern Star Resources.

70% hourly fuel cost | **TRL 6** E-777 haul truck | **50+** machines a year capacity | **3** patented subsystems

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies

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What EPCA delivers

Dry-hire fleet deployment, where EPCA retains ownership of the electric machine and charging infrastructure and the miner pays an hourly rate; retrofit conversion of client-supplied machines; and licensing of the E-Powertrain architecture, VCU software and patented subsystems to OEMs or fleet operators.

Scan to connect



PHIBION

In-situ tailings dewatering for mines that recovers storage, strengthens tailings and improves water recovery and sustainability

Phibion specialises in Accelerated Mechanical Consolidation (AMC™), using amphibious MudMaster® machines to dewater and strengthen tailings within existing tailings storage facilities. Developed over more than 30 years, the approach lets mines recover storage capacity, improve water management and extend facility life without filtration plants or major new infrastructure.

Mining companies face declining tailings storage capacity, water management challenges and the need for costly expansions. New filtration plants can require hundreds of millions of dollars in capital and two to three years to deploy, while dam raises also demand major investment and long lead times. MudMaster® machines repeatedly traverse the tailings surface, applying controlled mechanical energy that accelerates consolidation, releases water and increases tailings density and strength.

Phibion operates more than 60 MudMasters® globally, with over 10 million operational hours completed across multiple commodities in Australia, the Americas, Africa, Europe and Asia. At Lynas Rare Earths in Western Australia, AMC delivered around 50% greater consolidation and reduced storage requirements by around 50%. At CBNC in the Philippines, measured shear strength rose from around 7–13 kPa to 25–34 kPa after nine passes, recovering more than 540,000 m² of storage capacity.

60+ MudMasters® | **10M+ hrs** operation | **~50%** storage needed | **540,000 m** recovered

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies · Waste Free Mine / Smart Water Mine · Zero Carbon Mine / Small Footprint Mine

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What Phibion delivers

AMC™ in-situ tailings consolidation and dewatering services, MudMaster® equipment for customer-operated deployments, RDS™ real-time density monitoring, DART™ autonomous operation, CPT X™ in-situ geotechnical testing, and tailings assessment, optimisation and implementation support.

Scan to connect



XDR

Electric workover rigs powered by generator and battery, using 12x less energy than diesel

XDR is Australia's only manufacturer of a fully electric, Zone 1 (IECEx/ATEX) certified, European road-gauge compliant workover rig. Its rigs match diesel performance in the field — proven across its own fleet through under 1% non-productive time, 30-minute setup and pack-up versus 120 minutes for a conventional hoist, and safe operation with a reduced eight-person crew.

Well servicing operators lose up to 20 hours of rig time per well to slip-and-cut and slow rig-up on conventional diesel hoists, plus the cost of a larger crew working inside hazardous zones, while oversized rig packages need escorts and permits to move between sites. XDR's rig replaces the slip-and-cut travelling block with a single continuous drill line, uses a road-gauge chassis, and automates rig-up, tripping and load monitoring through a safety-rated PLC.

The VFD-controlled electric drivetrain delivers 160,000 lb of lifting capacity. A twin permanent-magnet electric unit is deployed and operating on site in Australia, and in a like-for-like weekly measurement against an equivalent diesel unit it used roughly twelve times less energy per unit of hoisting work. A 515 kW European single-motor variant is fully engineered to EU road-gauge and Zone 1 requirements, with manufacturing under an API Spec 4F licence at XDR's Australian-owned facility in Gujarat, India.

160,000 lb lifting capacity | **< 1%** non-productive time | **30 min** setup | **8-person** crew

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies

What XDR delivers

Complete electric workover rig packages — the drilling and hoisting unit, VFD electric drivetrain and safety-rated PLC control system, paired with a self-powered Range 3 electric catwalk — with optional Xenon packages for live telemetry, remote control, predictive maintenance and AI-assisted safety analytics.

Selected clients

Wild Desert · The Well Gear Group · Nitschke Equipment

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Scan to connect

WOOLPERT

Mapping and spatial intelligence that accelerates renewable energy and sustainable infrastructure delivery

Woolpert delivers high-accuracy geospatial data, digital twins and spatial intelligence that help governments, utilities and renewable energy developers make better decisions across the asset lifecycle. Its integrated capabilities support the planning, delivery and management of wind, solar, hydro, transmission and environmental projects throughout the Asia-Pacific region.

Renewable energy developers, utilities and governments face costly delays, investment risk and regulatory challenges when critical site, environmental and infrastructure information is incomplete, outdated or inaccurate. Woolpert combines aerial LiDAR, imagery, surveying, GIS and digital twin technologies to create accurate, decision-ready representations of real-world environments, delivering terrain models, 3D visualisations and spatial analytics from a single data capture program.

These commercially proven capabilities are used from site selection and environmental assessment through to construction, operations and asset management, helping clients identify constraints earlier, streamline approvals and reduce rework. For the 180 km² Captains Mountain Wind Farm in Queensland, Woolpert delivered LiDAR and imagery datasets for Vestas Asia Pacific to support 3D modelling and project development, despite significant weather challenges including La Niña conditions.

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies

What Woolpert delivers

Geospatial consulting, aerial LiDAR and imagery acquisition, surveying, GIS services, digital twin development and spatial analytics, delivering decision-ready datasets, terrain models, 3D visualisations and digital workflows across the asset lifecycle.

Selected clients

EnergyCo NSW · Squadron Energy · Powerlink · Vestas Asia Pacific

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Scan to connect



VERIDAPT

Real-time fuel and inventory visibility that reduces losses for mining, rail and agricultural operators

VERIDAPT provides digital fuel and inventory management technology for complex industrial operations. Its connected hardware and AdaptIQ software platform capture real-time field data, giving operators accurate visibility of fuel, liquids and bulk materials to improve reconciliation, reduce losses and strengthen accountability.

Mining and industrial operators manage large volumes of fuel and bulk materials across fragmented systems with limited real-time visibility. Inaccurate measurement and manual processes create inventory discrepancies, losses, unnecessary working capital and unreliable reporting. VERIDAPT tracks fuel from delivery through storage, dispensing and consumption, while AdaptVISION uses LiDAR to measure dry bulk stockpiles, giving operators a single source of truth.

The technology is commercially deployed across major mining, rail and industrial operations globally. The platform monitors approximately 40 billion litres of fuel a year across hundreds of operating sites, helping customers strengthen resource accountability, improve inventory accuracy and use resources more efficiently.

~40B L fuel monitored a year | **Hundreds** of operating sites

What VERIDAPT delivers

Industrial monitoring hardware, software and implementation services for fuel and inventory management — fuel management, liquid inventory monitoring and LiDAR-based dry bulk measurement — supported by system integration, commissioning and ongoing technical services.

Selected clients

BHP · Rio Tinto · Glencore · Vale · Teck · Newmont · CN Rail

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies · Energy Systems and Management · AgTech and Precision Farming

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Scan to connect





MINING3

Piloting and scaling technologies that cut emissions, energy use and waste for the mining industry

Mining3 turns difficult mine-site decarbonisation problems into practical technology solutions, including ventilation air methane (VAM) abatement, hydrogen and battery-electric haulage, renewable power integration, repurposing of waste and lower-energy mineral processing. It works with mining companies, researchers and technology partners to move ideas from applied research to field trials and commercial pathways.

Mining companies face rising pressure to cut Scope 1 and 2 emissions while maintaining production from remote, energy-intensive operations. In New South Wales, coal-mining fugitive emissions account for about 8.9% of the State's total emissions, with ventilation air methane one of the hardest sources to abate. Mining3 develops and de-risks decarbonisation technologies through applied research, industry consortia, technology partnerships and field trials, giving customers mine-ready solutions and a pathway from concept to commercial deployment.

Its leading capability is CATCH4, a catalytic VAM abatement program for underground coal mines, backed by the Australian coal industry. Phase 1, completed in 2025, advanced the technology from TRL 3 to TRL 6, and selected catalysts sustained more than 95% methane conversion below 550°C after two months of cyclic operation. In Phase 2, three 1 m³/s pilot units will operate at two NSW coal mines from 2027; at commercial scale, a 25 m³/s unit is forecast to abate about 27,000–45,000 t CO_2-e a year.

TRL 3 6 CATCH4 Phase 1 | **95%+** methane conversion | **3** pilot units from 2027

What Mining3 delivers

Applied R&D and technology commercialisation — consortium participation, sponsored projects, technology licensing, pilot-scale demonstrations and field-trial partnerships — to co-develop, test and de-risk methane abatement, electrification, hydrogen, renewable energy integration, waste repurposing and lower-energy processing solutions.

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies

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Perth · Santiago, Chile · South Africa · Switzerland · China

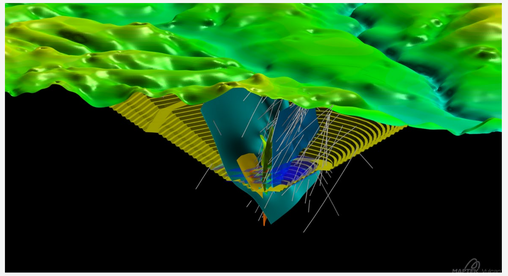
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Scan to connect





MAPTEK

Technology solutions for every mining stage, from exploration to operations, that help optimise mining

Maptek develops software, cloud and automation solutions that help mining professionals make smarter, faster and safer decisions. Its technology connects geology, mine planning, design, operations, spatial measurement and decision support across the mining lifecycle, turning complex geological, spatial and operational data into actionable insight.

Mining companies need to reduce uncertainty, improve safety and close the gap between planning and execution. Maptek helps customers understand their resources, optimise mine plans, monitor performance, manage risk and respond confidently to changing conditions, improving safety, productivity and efficiency.

The technology is commercially mature, used by more than 30,000 users across 110+ countries and backed by 45 years of mining experience. At a large iron ore operation in Africa, Maptek Vulcan and Technical Services have supported mine design since 2023, expanding from a five-year plan to a full life-of-mine design covering 11 stages. After a 2023 landslide in Canada, Maptek Sentry provided 24/7 remote slope monitoring and real-time alerts, reducing personnel exposure and supporting the safe reopening of a highway.

30,000+ users | **110+** countries | **45 yrs** mining experience

Sectors

Sustainable Mining

Key Capabilities

Sustainable Mining Technologies

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What Maptek delivers

Commercial software subscriptions for geology, mine planning, scheduling, drill and blast and spatial analysis; laser scanning and monitoring hardware; cloud-based data, workflow and decision-support solutions; and consulting and technical services.

Scan to connect

Agriculture

Australia's agricultural success is built on generations of innovation in some of the world's most diverse and challenging farming environments. Exposure to severe and frequent droughts, floods, fires and other extreme weather events, compels Australia's agriculture industry to redefine traditional practices, placing innovation and sustainability at the centre of operations.

As a trusted global producer and exporter, Australia has developed technologies, services and expertise that help farmers lift productivity, strengthen resilience and manage increasingly complex environmental conditions.

Australian agritech is delivering capabilities across precision agriculture, farm management, biotechnology, water management, soil health, carbon farming and livestock productivity. The ecosystem combines world-class research, strong industry collaboration and demanding agricultural conditions to foster globally relevant innovation.

From advanced sensors and satellite intelligence to nature-based solutions, agricultural biotechnology and methane reduction technologies, Australian agritech innovations are helping build more productive, resilient and sustainable food systems, contributing to the Green Economy.

The companies featured here showcase the depth of Australia's agricultural expertise. Their practical technologies and services are helping producers and partners in international markets strengthen food security, adapt to climate pressures and build more productive farming systems.

Agriculture subsectors

Sustainable agriculture

Sustainable practices that enable the production of agricultural products with reduced emissions, reduced waste, and that protect biodiversity.

Loam Bio
Sea Forest
PHNXX
Blue Lake Milling
OBE Organic
Swift Grow
PPB Technology
Facet Amtech
Rubicon Water
Climate Friendly
Accounting for Nature
FutureFeed
Humpty Doo Barramundi

AgTech and precision farming

A collection of technologies, including digital, that provide the agriculture, fisheries and forestry industry with tools, data and knowledge.

BioScout
LC60 AI (LatConnect 60)
Agritrix
Beanstalk AgTech



Sustainable fish farm Queensland



LOAM BIO

Carbon removal technology for farmers that increases stable soil carbon, resilience and on-farm productivity

Loam Bio develops microbial technologies that help agricultural soils capture and store more atmospheric carbon. Its CarbonBuilder™ fungal seed treatment enables farmers to build soil carbon at scale while supporting soil health, crop performance and resilience to climate variability, integrating carbon removal into existing cropping systems without major changes to farming practice.

Farmers face increasing pressure to improve soil health and resilience while reducing agricultural emissions, yet many carbon removal solutions require significant changes to farming practices or compete with farm productivity. Applied to seed before planting, CarbonBuilder™'s beneficial fungi colonise plant roots, helping crops access nutrients and store more carbon below ground, where it can contribute to increased soil carbon stocks.

Western Sydney University trials found the active fungal isolate increased total soil carbon by 9.4%, carbon stored in stable soil aggregates by 20.8% and resistance to carbon loss by 20.9%. Strip trials across 43 hectares in New South Wales delivered an average net yield uplift of $45.05 per hectare per year after the cost of CarbonBuilder™. Commercially deployed across Australian broadacre cropping, the technology is being scaled across Australian and American agriculture.

9.4% soil carbon | **20.8%** stable carbon | **$45.05/ha** yield uplift | **74** plot studies

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · Circular Economy · Green Innovation and Skills Development

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What Loam Bio delivers

CarbonBuilder™ seed treatment and participation in Loam Bio's SecondCrop™ soil carbon projects, supported by agronomic and carbon project services that measure and verify increases in soil carbon and generate Australian Carbon Credit Units, with equivalent technology and projects offered in the American market.

Customers

Broadacre farmers and agricultural businesses across Australia, including large-scale grain growers and farming enterprises participating in SecondCrop™ soil carbon projects

Scan to connect



SEA FOREST

A nature-inspired livestock feed supplement that reduces methane emissions by 80% and increases productivity by 6%

Sea Forest produces SeaFeed™, the only commercially available ruminant methane inhibitor that is profitable to use, with over double competitors' abatement. By combining productivity gains with methane reduction, SeaFeed™ enables livestock owners to increase profitability and enhance their sustainability credentials, in line with Sea Forest's purpose to create more food from fewer resources.

Methane has 84 times the warming impact of carbon dioxide over 20 years, and 70% of agriculture's methane emissions are enteric. SeaFeed™ inhibits a specific enzyme in the rumen during digestion, preventing carbon and hydrogen from forming methane, reducing cattle methane production by 80% and increasing productivity by 6%. Over 30 peer-reviewed scientific papers have shown it to be safe, with no effect on the quality of beef, dairy or wool.

After six years of research and development, Sea Forest began commercialising SeaFeed™ in June 2025. By June 2026 more than 130,000 head of beef cattle were being supplemented, abating over 210,000 tonnes of CO^2e a year, and more than 10,000 sheep, with Fast Retailing, parent of Uniqlo, launching its first low-carbon wool collection from this work in April 2026. All emission reductions are verified under Sea Forest's Verra-registered project.

80% methane | **6%** productivity | **130,000+** head of cattle | **210,000 t** CO_2e abated a year

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · AgTech and Precision Farming

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What Sea Forest delivers

SeaFeed™, supplemented at 0.2% of dietary inclusion, delivered as an oil-based liquid for grain-fed cattle and as loose and lick blocks for pasture-fed cattle and sheep.

Selected clients

Chadwick Consolidated Group · Teys Cargill · Providore Global

Scan to connect



PHNXX

Modular renewable power systems for remote industries, cutting energy costs and diesel emissions by up to 40%

PHNXX specialises in rapidly deployable, modular microgrids that integrate solar, battery storage and intelligent energy management into a single system. Its Grid-in-a-Box platform provides reliable renewable power for remote and temporary operations, deploys in under a day, and can be scaled, relocated and redeployed as energy needs change.

Remote and temporary operations often depend on diesel generators or expensive grid upgrades. Diesel can cost up to $0.80/kWh once fuel, transport and maintenance are included, while fuel logistics add operational risk and emissions. For farms, mines, construction sites and remote communities, fixed infrastructure can take months to deploy and becomes stranded when sites move. PHNXX automatically manages solar generation, battery storage and customer loads to maximise renewable energy use and reduce reliance on diesel or the grid.

The platform has progressed from pilot to commercial deployment, with nine systems deployed across agriculture, construction, transport, remote communities and research. A full-scale Victorian pilot operated for 24 months from 2023 to 2025 and was packed up, transported and reinstalled five times. Across deployments, systems have delivered 30–40% energy cost reductions, and a recently completed 105 kW solar and 241 kWh battery installation is indicated to supply up to 95% of its site's annual electricity demand.

< 1 day to deploy | **30–40%** energy costs | **9** systems deployed | **up to 95%** site demand supplied

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · Renewables and Generation · Zero Carbon Mine / Small Footprint Mine · Green Infrastructure

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What PHNXX delivers

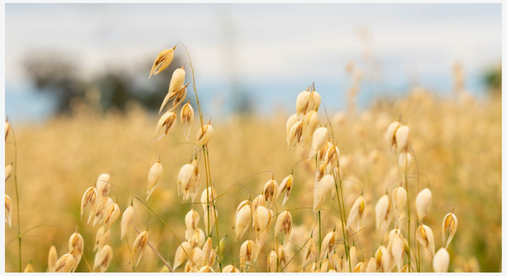
Grid-in-a-Box solar, battery and energy management systems, sold outright or supplied under Energy-as-a-Service leasing or power purchase agreements, together with recurring software, analytics and performance monitoring, and ongoing operations and maintenance.

Selected clients

Charles Sturt University · Transport for NSW · Upper Hunter Shire Council · Gippsland Climate Change Network · commercial dairy and agricultural operators

Scan to connect





BLUE LAKE MILLING

Traceable Australian oat products and ingredients for food manufacturers seeking reliable and sustainable supply

Blue Lake Milling supplies premium oat ingredients through a fully integrated paddock-to-plate supply chain. Combining traceable Australian sourcing, internationally recognised food safety systems and circular manufacturing, it works with up to 700 Australian oat-growing families and exports to more than 20 countries.

Food manufacturers and retailers face increasing pressure to source ingredients that meet sustainability expectations without compromising quality or supply reliability, yet many suppliers struggle to provide full traceability and long-term supply certainty. Blue Lake sources 100% Australian-grown oats through long-standing grower partnerships and processes them through a vertically integrated chain that includes renewable energy generation from oat husks.

Its anaerobic digestion and bioenergy system at Bordertown, commissioned in 2019, is the first globally to use raw oat husk by-products as its primary feedstock, converting more than 7,000 tonnes of husks a year into biogas for a combined heat and power system. Over 12 months it generated approximately 6,000 MWh of renewable energy, with 20% exported to the regional grid, and contributed to a reported 1,558 tonne CO^2-e reduction and about 25% less total corporate waste. Digestate returns to regional farms as organic fertiliser.

7,000+ t oat husks a year | **~6,000 MWh** renewable energy | **1,558 t** CO_2-e reduced | **20+** countries

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture

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LinkedIn: **linkedin.com/company/blue-lake-milling-pty-ltd**

What Blue Lake Milling delivers

Rolled, quick and instant oats, oat bran, oat flour, multigrain blends, muesli, private-label manufacturing and branded retail products, through bulk ingredient supply, customised product solutions, retail packaging formats and export-ready supply-chain partnerships.

Scan to connect





OBE ORGANIC

Certified organic grassfed beef from the pure heart of Australia

OBE Organic is Australia's oldest and most trusted organic beef marketing company, producing certified organic halal beef from the pure heart of Australia. Owned by family farmers, it has a mission to help people lead better, healthier lives.

Consumers around the world want to know where their food comes from, and OBE Organic beef is traceable from farm to fork. The beef begins with farming families who care for millions of hectares of certified organic rangelands, and whose commitment to the land and their way of life brings clean, safe beef that reflects their heritage and commitment to sustainability.

Founded by a group of like-minded farmers to open new markets for organic beef, particularly for producers in remote areas, OBE Organic is built on co-operative principles that ensure fair returns for the farmers who supply it and support them in running strong, sustainable farms.

What OBE Organic delivers

Certified organic, halal, grassfed beef that is traceable from farm to fork.

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture

Address

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Scan to connect

SWIFT GROW

Organic biofertiliser that regenerates soil health to increase crop yield 30% and cut water usage 40%

Swift Grow produces a full-spectrum soil microbiome, DNA-sequenced at around 10,000 bacterial species, that regenerates soil biology and suppresses soil pathogens. Certified as an organic input, it offers farmers a substitute for chemical inputs at lower cost, with scalable volume production.

Food insecurity, water shortages, desertification and climate change are placing growing pressure on agricultural land. Swift Grow addresses these through natural soil microbial restoration: bacteria that produce extracellular polymeric substances fix nutrients in drought and desert conditions, while accelerated photosynthesis helps convert atmospheric carbon into beneficial soil carbon.

The product has been scientifically verified by Western Sydney University, with support from the Australian Research Council, on potato and lettuce crops, recording a 50% yield increase, and by the International Center for Biosaline Agriculture in Dubai on cucumbers, recording a 30% crop increase.

~10,000 bacterial species | **4 yrs** shelf life | **20 L** per hectare a year

What Swift Grow delivers

Soil microbiome liquid concentrate in various volumes with a four-year shelf life at room temperature — 20 litres regenerates one hectare a year without synthetic inputs or pesticides — together with an organic pest repellent and soil inoculant applied through any farm application method.

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · Waste-to-Value Solutions

Address

HQ Building E13, Maintenance Lane, Western Sydney University, Richmond, New South Wales

Contact

Emil Isaac, Co-founder
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Scan to connect



ppb technology™
The **CYBERTONGUE®** Company

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · Waste-to-Value Solutions

Address

HQ c/o AFII at ANU, Gould Building 116, Daley Road, Acton, Australian Capital Territory

Contact

Stephen Trowell, Founder & Managing Director
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Scan to connect

PPB TECHNOLOGY

On-site dairy testing for dairy processors that reduces milk waste and associated greenhouse gas emissions

PPB Technology's CYBERTONGUE® is the world's first and only on-site technology for measuring heat-stable milk proteases in minutes. It brings laboratory-quality protease testing directly into dairy processing plants, detecting heat-stable enzymes such as AprX and plasmin before processing decisions are made.

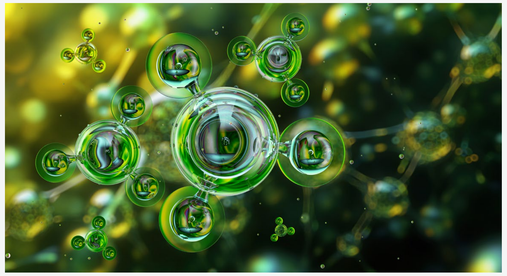
Dairy processors lose billions of US dollars in value each year to heat-stable enzymes that survive pasteurisation and UHT processing, causing gelation, bitterness, sedimentation, reduced shelf life and lower cheese yield — yet processors cannot routinely detect them when milk is received. CYBERTONGUE® lets processors screen incoming milk, direct low-risk milk to UHT and other high-value products, and divert higher-risk milk to uses where protease activity is less damaging, reducing waste and the emissions embodied in it.

CYBERTONGUE® is a commercial, patented biosensor platform combining highly sensitive biosensors with a compact automated analyser, backed by peer-reviewed research. Thirteen systems are in use across 10 countries on five continents, with thousands of tests performed, and the technology has detected protease-contaminated milk that conventional microbiological indicators fail to identify.

13 systems in use | **10** countries | **5** continents

What PPB Technology delivers

CYBERTONGUE® analysers with application-specific biosensor reagent kits for routine on-site testing, including software for automated measurement, analysis and reporting, with training and technical support, supplied directly and through international distribution partners.



facet amtech

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · Hydrogen, ETS and Emerging Fuels · Renewables and Generation

Address

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University of Newcastle, Callaghan Campus, New South Wales

Contact

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LinkedIn: **linkedin.com/company/facet-amtech**

Scan to connect

FACET AMTECH

Low-cost clean ammonia technology using a novel chemical process, directly from air and water

Facet Amtech simplifies ammonia plants by eliminating the hydrogen production infrastructure, and the waste energy associated with it. Its technology produces ammonia within a single reactor using air and water as the feedstock, without prior separation, with a pathway to a levelised cost of ammonia up to 50% lower than grey ammonia while eliminating fossil fuel use.

Ammonia production and its use in fertilisers relies heavily on fossil fuels, consuming around 4% of global natural gas. Centralised production, complex import and export markets, decarbonisation efforts and geopolitical tensions have strained supply chains. Facet Amtech's process uses a proprietary catalyst that converts air and water directly to ammonia through a novel chemical pathway, avoiding dedicated hydrogen production, reducing hazards and simplifying plant infrastructure.

The technology has been repeatedly tested at lab scale, with conversion of air and water to ammonia proven using industry-standard 15N isotope testing, and recent research is shaping an upcoming 1 kg-per-day pilot project. Newly installed furnaces capable of producing around 100 kg of catalyst a week are being commissioned, and the company has engaged with global ammonia producers, technology providers and catalyst companies interested in collaborating on commercialisation and pilot activities.

What Facet Amtech delivers

Once commercialised, process technology licences for site owners and operators building new ammonia plants, with ongoing manufacture and supply of Facet Amtech's proprietary catalyst. During scale-up and pilot phases, the company is seeking industrial partners, end-users and early customers interested in smaller plants.



RUBICON WATER

Transforming gravity-fed irrigation at scale, improving water availability for authorities, growers and communities

Rubicon Water is the only company globally with proven technology to autonomously manage entire gravity-fed irrigation networks. It integrates precision measurement, automated gates, communications and software to transform manually operated canals into self-coordinating water delivery systems, with more than 36,000 products deployed across 23 countries.

Agriculture consumes around 70% of the world's freshwater, yet on average only 40–50% of the water supplied reaches crops, with ageing, manually operated canals causing spills, unstable flows, poor measurement and unreliable delivery. Rubicon's meters give real-time visibility of flow and level, automated gates control water movement, and Total Channel Control™ software coordinates the network to match supply with demand — in modernised Australian networks, lifting distribution efficiency from around 70% to above 90%.

Rubicon technology services more than 2 million hectares of irrigated land. It underpins the modernisation of Goulburn-Murray Water's network in Northern Victoria, supporting the recovery of more than 450 gigalitres of water each year — more than the annual household water use of Victoria's approximately 7 million residents. In Karnataka, India, more than 4,200 automated gates operate across a network serving over 400,000 hectares, and Turlock Irrigation District in California commissioned the first fully autonomous irrigation system in the United States, with early results showing a 69% reduction in spill volumes on its Ceres Main Canal.

36,000+ products deployed | **23** countries | **2M+ ha** irrigated land | **560+** billion litres/yr recovered

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture · AgTech and Precision Farming

Address

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Shepparton · New Zealand · United States · India · China · Chile · Spain · Italy · Kazakhstan

Contact

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What Rubicon Water delivers

Complete irrigation modernisation systems, from precision measurement to network-wide autonomy — automated control gates and flow meters, telemetry, Total Channel Control™ automation, NeuroFlo™ water management software and FarmConnect™ on-farm automation — with design, commissioning, training and ongoing support.

Selected clients

Goulburn-Murray Water · Murrumbidgee Irrigation · Turlock Irrigation District · Krishna Bhagya Jala Nigam Limited · SENARA (Costa Rica)

Scan to connect





CLIMATE FRIENDLY

An experienced and trusted Australian carbon farming and nature repair partner

Climate Friendly is one of Australia's most experienced carbon and nature service providers, with more than 20 years helping organisations identify, develop and realise value from carbon, nature and natural capital opportunities. It offers one of Australia's most comprehensive combinations of carbon farming and nature repair methods, supported by proprietary environmental intelligence and strong Traditional Owner partnerships.

Organisations face growing pressure to meet climate risk reporting requirements and create value where agriculture, carbon, nature and natural capital intersect, but fragmented frameworks, methodologies and investment pathways make it hard to identify opportunities, quantify benefits and deploy capital with confidence. Climate Friendly combines geospatial analytics, satellite imagery, LiDAR, remote sensing and machine learning to provide decision-ready insights, then supports implementation through project development, environmental market participation and ACCU trading.

Its technology is commercially deployed across carbon project development, project assurance, ACCU generation and natural capital assessment. Climate Friendly's woody vegetation models have an average accuracy above 90%, independently validated using more than 25 million LiDAR samples across more than 250,000 hectares, and it was the first project developer in Australia to apply drone technology across its project portfolio.

20+ yrs carbon & nature | **90%+** model accuracy | **25M+** LiDAR samples | **250,000+ ha** validated

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture

Address

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Contact

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What Climate Friendly delivers

Carbon project feasibility and development, nature repair solutions, environmental market participation, ACCU trading, natural capital assessment and reporting, and proprietary environmental data products that support decision-making, risk assessment and sustainability performance.

Scan to connect





ACCOUNTING FOR NATURE

A science-backed framework for measuring, verifying and reporting the state of nature

Accounting for Nature turns the condition of nature into a scientifically rigorous, comparable and independently verifiable score. Its Econd® Environmental Condition Index measures environmental assets against reference benchmarks, giving landholders, investors and regulators a consistent basis for measuring, comparing and reporting nature at landscape scale.

Organisations lack a credible, consistent way to measure the state of nature across their assets and landscapes. That makes it hard to identify where environmental investment is most needed, demonstrate outcomes to investors and regulators, manage nature-related risk and substantiate nature claims, which can undermine access to emerging nature and environmental markets.

The Framework is commercially deployed. 115 Environmental Asset Accounts cover approximately 9.78 million hectares across two countries, including 51 Certified Environmental Accounts, using 27 Accredited Methods supported by independent scientific review and verification. A public Environmental Account Registry records certified accounts with digital blockchain credentials, and the Environmental Accounting Platform, eVa, is preparing for launch.

~10M ha measured | **115** environmental accounts | **51** certified accounts | **27** accredited methods

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture

Address

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Other locations Brisbane · Gold Coast, Queensland

Contact

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LinkedIn: **https://www.linkedin.com/company/accounting-for-nature-ltd/**

What Accounting for Nature delivers

Certified Environmental Accounts and certification services; training and accreditation for experts and auditors; Accredited Method review; access to the eVa platform as SaaS once registered with an account; and the Environmental Account Registry with digital credentials.

Selected clients

AACo · Fortescue · GreenCollar · Bush Heritage · CreditNature · CO2 Australia

Scan to connect





FUTUREFEED

Asparagopsis seaweed as a livestock feed ingredient, shown to lower ruminant methane emissions by 80% or more

FutureFeed holds global intellectual property for the use of Asparagopsis seaweed as a livestock feed ingredient, and continues to develop technologies that expand the impact of this decarbonisation solution. It creates value across the ruminant protein supply chain through a first-mover commercial platform built on scientific discovery.

Carbon is lost through enteric emissions in ruminant production systems. An Asparagopsis-containing feed additive, fed to cattle daily at less than 0.5% organic matter, gives producers up to 80% enteric methane reduction in their herd, along with the benefit of better feed conversion.

FutureFeed is a licensing organisation. It has sublicensed its patented technology, which has demonstrated efficacy and safety in peer-reviewed publications, to seaweed cultivators and manufacturers to drive adoption of Asparagopsis methane-reducing feed supplements. More than two million litres of cultivation capacity exist, with more being brought online by licensees worldwide, and FutureFeed continues to extend its licensing coverage and patent terms through new licensees and added IP.

80%+ methane reduction | **< 0.5%** inclusion rate | **2M+ L** cultivation capacity

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture

Address

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What FutureFeed delivers

Sublicences to its patented Asparagopsis technology for seaweed cultivators and manufacturers producing methane-reducing feed supplements, with new licensees and added IP extending coverage and patent terms.

Scan to connect





HUMPTY DOO BARRAMUNDI

Premium Australian saltwater barramundi, farmed responsibly to minimise environmental impact

For more than 30 years, Humpty Doo Barramundi has specialised in growing premium Australian saltwater barramundi, combining innovation with responsible aquaculture. Its family-owned, single-site operation in the remote Northern Territory gives close control over how its fish are grown, delivering consistent quality year-round, with a clean mild flavour and firm texture sought after by chefs and consumers.

Chefs, distributors and seafood buyers need reliable access to premium fish that meets increasingly stringent sustainability requirements, but seasonal availability, variable quality and uncertain provenance create commercial risk. Stable tropical growing conditions allow year-round production, with more than 130 tonnes of fresh barramundi dispatched each week across Australia and international markets.

Its award-winning saltwater wetland recirculation system gravity-feeds pond water through constructed wetlands, where native grasses and natural biological processes remove nutrients before the water is reused. The system retains more than 99% of nutrients on farm, significantly reducing discharge to surrounding waterways. In December 2025 the farm became the first Australian barramundi farm to achieve Aquaculture Stewardship Council (ASC) certification, and it was named ASC Best Responsible Producer at the 2026 Sustainable Seafood Awards.

130+ t barramundi a week | **99%+** nutrients retained on farm | **5** export markets

Sectors

Agriculture

Key Capabilities

Sustainable Agriculture

Address

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Contact

Miles Toomey, Head of Sales and Marketing
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Website: **humptydoobarramundi.com.au**

What Humpty Doo Barramundi delivers

Premium Australian saltwater barramundi for international foodservice, retail and wholesale markets, in a range of formats and specifications, with reliable year-round supply at commercial scale and single-site Australian provenance.

Export customers

Lee Fish USA · Double Chin Food Services (Singapore) · Waves Pacific (Hong Kong) · Crystal Bay Foods (New Zealand) · Culinary Exports Australia (Fiji)

Scan to connect



BIOSCOUT

BioScout protects growers' crops from disease outbreaks before symptoms show, cutting fungicide spraying 30–70%

BioScout's patented SporeScout sensors are solar-powered and fully autonomous, sampling the air around the clock and using AI microscopy to identify more than 40 crop-disease spores and pollens down to two microns, turning results into risk alerts within 24 hours. Good Design Australia named the technology a world-first in airborne disease tracking, awarding it the 2023 Good Design Award of the Year in Product Design.

Growers cannot see fungal disease risk in real time. Traditional spore trapping means sending samples to a laboratory, taking days or weeks to return a result, by which point the infection window has closed. Growers therefore spray on a fixed calendar rather than on actual risk, wasting chemical and money — one vineyard case study found 97% of its fungicide budget targeted disease that was not even present. Australian grain growers alone lose $470 million a year to foliar disease despite heavy fungicide spending.

Units sit in the field capturing spores on a rolling microscope slide, with AI identifying pathogens against a library of more than 40 known threats. Results reach the grower's dashboard within 24 hours as a spray-or-wait risk score for each block, combined with live weather data, allowing growers to spray only when real disease pressure exists. The network now spans 15 countries and five continents, including a 60-unit GRDC-funded surveillance network monitoring five major grain pathogens across three Australian grain-growing regions.

40+ pathogens identified | **2 microns** detection resolution | **30–70%** fungicide use | **15** countries

Sectors

Agriculture

Key Capabilities

AgTech and Precision Farming

Address

HQ 6 Sloane Street, Marrickville, Sydney, New South Wales

Contact

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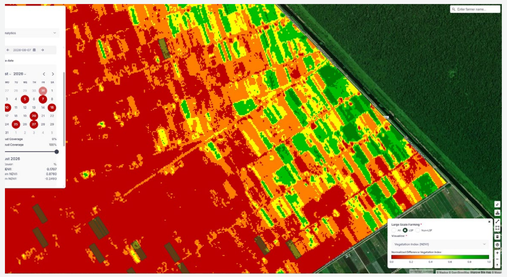
What BioScout delivers

SporeScout sensor units supplied as hardware with an annual subscription covering the grower dashboard, spore-risk alerts, live weather data and disease mapping, with higher tiers adding dedicated agronomic support. Regional distribution is licensed to agribusiness partners who resell subscriptions to growers.

Selected clients

GRDC · Treasury Wine Estates · Syngenta · Elders · Bayer · Wageningen University & Research · UC Davis Trouillas Lab · a top-tier vertically integrated potato processor

Scan to connect



LC60 AI (LatConnect 60)

Satellite analytics for governments and businesses to monitor agriculture and verify carbon outcomes

LC60 AI is Australia's only Earth-observation satellite company offering direct tasking, data collection and real-time downlink. It converts multi-sensor Earth-observation data into operational intelligence at national scale, combining satellite imagery, AI, field data and web and mobile delivery for crop monitoring, yield forecasting, soil moisture, methane detection and carbon digital MRV.

National agriculture agencies and carbon programme operators must manage vast areas and hundreds of thousands of smallholders, yet farm data is often fragmented, delayed or too coarse for field-level decisions. LC60 AI fuses optical, SAR and SWIR satellite data with cadastral records, IoT and ground-truth data in one AI-enabled platform, delivering alerts, forecasts, reports and audit-ready records through dashboards, APIs or on-premises systems.

Since April 2023, its Agrow60 platform has supported BERNAS, Malaysia's national rice company, scaling to more than 125,000 smallholder farmers. EONET60 has delivered 900,000 km² of high-resolution optical data for the Western Australian Government, and LC60 AI is an approved Capture WA imagery supplier. Its next-generation SWIRSAT constellation, supported by $5.8 million from the Australian Space Agency, is in development, with the first two satellites planned for early 2027.

125,000+ farmers supported | **900,000 km** imagery delivered | **$5.8M** Australian Space Agency

Sectors

Agriculture

Key Capabilities

AgTech and Precision Farming

Address

HQ Level 9, 1 William Street, Perth, Western Australia
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Contact

Dr Rueben Rajasingam, Chief Operating Officer and Co-Founder
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LinkedIn: **linkedin.com/company/lc60-ai**

What LC60 AI delivers

SaaS subscriptions or managed deployments of Agrow60, CarbonX60, eMission60 and EONET60, satellite imagery, custom mapping and AI analytics, secure API or on-premises delivery, and SWIRSAT tasking, reserved capacity and direct-access programmes.

Selected clients

Western Australian Government · BERNAS (Malaysia) · PT BIGNET and PT Len Defence (Indonesia) · EDGE Group/FADA (UAE) · PETRONAS (Malaysia)

Scan to connect



AGRITRIX

AGRITRIX

AI-powered agricultural systems delivering real-time intelligence for smarter resource use, asset performance and farm operations

Agritrix is an AgTech company integrating AI, IoT, advanced analytics, smart sensing and automation to enable connected, measurable and data-driven agricultural operations. Its multi-parametric approach combines agricultural, environmental and operational intelligence to support predictive farm management.

Agricultural operators often lack a central, real-time view of farm operations because critical systems run on fragmented technologies. For large, remote and dispersed operations, manual monitoring and disconnected systems can result in inefficient resource use, reactive intervention, higher operating costs, avoidable downtime and increased production risk.

Agritrix brings fragmented farm information together in a central operating view, continuously analysing conditions across energy, water, assets and production to identify patterns and emerging issues. Its technology stack spans IoT sensing and low-bandwidth communications, edge and cloud computing, satellite and weather data, precision irrigation, soil and crop intelligence, equipment condition and livestock monitoring, and agricultural microgrids, and is designed for connectivity-constrained environments.

What Agritrix delivers

Modular, configurable AgTech solutions that integrate with existing agricultural infrastructure, including design and deployment of connected systems for monitoring, operational intelligence, analytics, automation and control, configured to suit different farm sizes, production systems and connectivity conditions.

Sectors

Agriculture

Key Capabilities

AgTech and Precision Farming · Sustainable Agriculture

Address

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Scan to connect





BEANSTALK

BEANSTALK AGTECH

Innovation advisory and venture building for the agriculture sector

Beanstalk AgTech is an advisory and venture-building firm dedicated solely to the agricultural sector in the Indo-Pacific, with a highly specialised team of agricultural sector knowledge and experience. It specialises in assessing technologies and their ability to scale into a supply chain, with core capabilities in commercialisation, commercial negotiation, IP structuring and business model innovation.

Beanstalk convenes complex multi-stakeholder initiatives that balance the impact and commercial outcomes different stakeholders require. It supports leading scientists and innovators to move through the 'valleys of death' and bring their solutions to market in a scalable way, helps bring proven technologies into key supply chains to drive widespread adoption, and works with policymakers, agribusinesses and NGOs to develop and implement initiatives that consider the food system as a whole.

This work is delivered through venture building and venture studios, landing pads, and strategy and roadmap development. Programs include the Drought Venture Studio under a A$10 million Commonwealth Government contract, the five-year Elevate Dairy program for the Gardiner Foundation and the two-year Monsoon Ventures program for the Singapore Government, alongside published research for DFAT, the IFC and the Gates Foundation.

A$10M Drought Venture Studio | **5-year** Elevate Dairy program | **2-year** Monsoon Ventures program

What Beanstalk delivers

Commercialisation and venture-building services, together with programmatic services such as landing pads and venture studios.

Selected clients

DFAT · DAFF · ACIAR · Agriculture Victoria · Enterprise Singapore · Gates Foundation · World Bank · Asian Development Bank · IFC · Kagome · Elders · MLA · Dairy Australia

Sectors

Agriculture

Key Capabilities

AgTech and Precision Farming

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Scan to connect



Green innovation & skills

Australia's green economy is supported by world-class research, a skilled workforce and a strong culture of innovation. Australian organisations are transforming new ideas, knowledge and emerging technologies into commercially relevant solutions that help businesses, industries and communities thrive in a lower-emissions future. From workforce development and industry training to advanced research, digital technologies, artificial intelligence and environmental market services, Australian organisations are helping accelerate technology adoption, improve decision-making and build future capability.

Australia's leading education and research institutions are advancing solutions that support the green transition while helping communities and industries respond to the impacts of climate change. Australia also delivers high-quality workforce development and training programs that help address critical skills needs associated with the global energy transition.

Strong collaboration between industry, research institutions, training providers and technology developers enables new ideas to move more rapidly from concept to commercial application. This collaborative approach helps organisations adopt emerging technologies, attract investment, strengthen workforce capability and respond to evolving market demands.

The organisations featured in this section showcase Australia's expertise in innovation, skills development and knowledge transfer. They offer international partners access to specialist capabilities, technologies and training that can strengthen workforces, accelerate commercialisation and create new opportunities for sustainable growth.

Green innovation & skills development subsectors

R&D and innovation

Research, technologies and advisory capabilities that accelerate the transition to a Green Economy.

Adaluma Tech
PKF Parvate Sustainability
Veritas Tech
Climate Ltd
Fair Supply
HILT CRC (Heavy Industry Low-carbon Transition Cooperative Research Centre)
Flame Security International
Avarni
NIER
NEM Australasia
Pacific Legal Network
Pacific Action for Climate Transitions (PACT)
Diversity Arrays Technology (DArT)

Education

Tertiary education institutions (both university and vocational education) that create environments to enable Green innovation.

University of Tasmania
TAFE Queensland

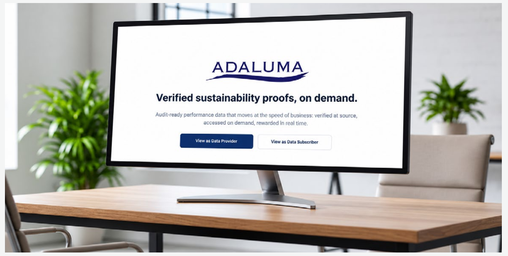
Workforce training

Workforce training and employment for the Green transition.

Elephant in the room consulting
Lacave & Partners



Solar farm installation



ADALUMA

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

Address

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Contact

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LinkedIn: **linkedin.com/company/adaluma-tech**

Scan to connect

ADALUMA TECH

Verified value-chain data feeds for enterprise automation, accelerating decarbonisation and unlocking sustainable finance at scale

Adaluma makes performance beyond organisational boundaries visible, trusted and actionable. Its infrastructure converts supplier and partner data that is typically delayed and self-reported into recurring, verified, machine-readable evidence feeds that enterprises and financial systems can use to automate decisions and respond to real-world performance, while the underlying value-chain evidence remains locally controlled.

Organisations are increasingly accountable for performance beyond their operational boundaries but lack visibility and control over the underlying data. Information from suppliers, customers and partners is often delayed, incomplete or incorrectly formatted, creating a heavy manual processing burden and weakening trust. Adaluma connects directly to value-chain data sources and applies proprietary capture and verification logic, preserving provenance and source evidence, while data providers retain control and are rewarded according to data quality and use.

Adaluma's core verification infrastructure has been technically validated through a proof-of-concept developed with CSIRO Data61, demonstrating how real-world performance data can be verified, converted into trusted evidence objects and used in downstream digital and financial workflows with full auditability. The infrastructure is now progressing to enterprise pilot deployment, with Scope 3 verification as its first production capability and emerging applications in resilience verification and sustainability data for Digital Product Passports.

What Adaluma delivers

Enterprise subscription access to Adaluma's verification infrastructure, configured for use cases such as Scope 3 emissions, resilience or product-level sustainability data, with managed value-chain onboarding, recurring verified data feeds, evidence artefacts and audit packages integrated into existing systems, plus pilot engagements to validate new use cases.



PKF

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

Address

HQ Hay Street, Perth, Western Australia
Melbourne · Sydney · Newcastle · Adelaide

Contact

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Scan to connect

PKF PARVATE SUSTAINABILITY

Helping boards, CEOs and CFOs navigate climate risk, sustainability reporting and regulatory change through practical advisory

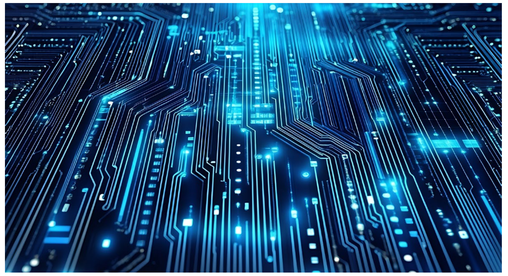
PKF Sustainability partners with organisations to manage the commercial impacts of sustainability, climate and regulatory change. It helps leaders understand risk, meet reporting obligations, prepare for assurance, strengthen governance and identify opportunities that support long-term business performance, with a practical, evidence-based and outcomes-focused approach that turns sustainability obligations into informed business decisions.

Entities reporting under Australia's mandatory sustainability reporting standards can find it hard to get started and to report in a timely and cost-efficient way. PKF Sustainability draws on its team's experience as risk, sustainability and finance professionals to simplify reporting and execute it, adding value beyond compliance.

Its work includes efficient benchmarking, simplified carbon accounting and consulting on sustainability reporting readiness and execution. PKF Sustainability has supported more than 50 Group 1, 2 and 3 reporting businesses, including full reports for several Group 1 businesses.

What PKF Sustainability delivers

Consulting on sustainability reporting readiness and execution, efficient benchmarking and simplified carbon accounting.



VERITAS TECH

Investment readiness and continuous monitoring for climate projects, accelerating investor decisions

Veritas Tech's ANGE platform specialises in investment readiness and continuous monitoring for climate projects. It creates one continuous, standardised and independently verified project record that tracks milestones, risks and delivery, giving developers and investors consistent evidence from due diligence through project execution.

Climate project developers face fragmented evidence and repeated due diligence for each investor, resulting in longer diligence cycles and higher financing costs, while investors lose visibility as projects progress. ANGE structures project data, independently verifies evidence and continuously monitors milestones and risks, so developers avoid rebuilding diligence materials and investors receive current readiness scores, milestone verification, risk updates and an audit trail.

ANGE is at the development stage, building a platform that standardises climate-project data, supports independent verification and continuously tracks delivery in one auditable record. The company is targeting three to five initial live projects and first paid engagements, and has taken part in the University of Cambridge Impulse Programme for innovation and commercialisation development.

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

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What Veritas Tech delivers

Investment readiness assessments producing standardised, investor-ready project records; a continuous monitoring subscription with milestone verification, risk updates and audit trails; and enterprise data licensing of portfolio-level project intelligence for funds and lenders.

Scan to connect



CLIMATE LTD

Agentic AI software unifying carbon accounting, climate risk, and disclosures on one continuous platform

Climate Ltd delivers an agentic AI climate intelligence platform that uses 16 specialised AI agents on a single data spine to connect emissions accounting, physical and transition financial risk, priced abatement and automated disclosures. It turns complex operational and financial data into continuous, audit-ready sustainability disclosures and strategic investment decisions.

Enterprises and financial institutions spend three to six months per reporting cycle stitching together fragmented tools and spreadsheets for emissions accounting, climate risk and disclosures. This produces unverified Scope 3 data, isolated risk reports and disclosures that can fail under strict regulatory assurance, without showing the line-item financial impact of climate exposure. Climate Ltd automates data ingestion from ERP, utility and supply-chain systems and continuously calculates Scope 1–3 emissions.

The platform models physical and transition risks against NGFS and IPCC scenarios, translates exposure into line-item financial impacts, and dynamically prices abatement and adaptation options. It maps data into more than 15 reporting frameworks, including AASB S2, IFRS S2, CSRD, PCAF and the GHG Protocol, with end-to-end lineage from source record to regulatory filing and human-in-the-loop governance for audit assurance.

16 specialised AI agents | **15+** reporting frameworks

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation · Energy Systems and Management · Smart Urban and Climate Risk

Address

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Contact

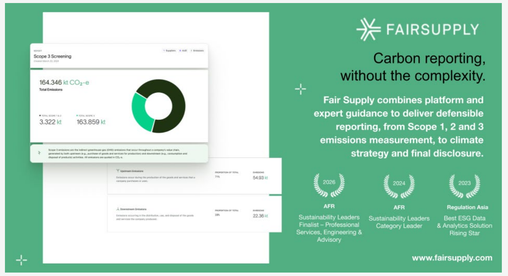
Jag Walia, Managing Director
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What Climate Ltd delivers

An enterprise SaaS subscription structured by entity complexity and module requirements — GHG accounting, climate risk and financial impact, dynamic abatement and adaptation planning, PCAF financed emissions and automated multi-framework disclosures — plus jurisdictional overlay configuration and advisory partner enablement.

Scan to connect



FAIRSUPPLY

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

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Scan to connect

FAIR SUPPLY

Mapping emissions and modern slavery risk across supply chains for accurate regulatory disclosure and risk management

From organisation-supplied spend data, Fair Supply models the Scope 3 emissions embedded across an organisation's entire supply chain, extending into upstream tiers, countries and sectors that direct supplier surveys never reach. It models emissions risk across 60 billion global supply chains up to tier 10, using a multi-regional input-output methodology backed by independent limited assurance, and a separate module adds audit-ready Scope 1 and 2 figures.

Under mandatory climate reporting regimes such as Australia's ASRS, the EU's CSRD and other IFRS S2-aligned standards, companies must disclose their emissions. Scope 3 is usually the largest and most complex part of the footprint — for some organisations 70 to 90% of their total climate impact — and the hardest to assess, often relying on expensive, time-intensive consulting.

Companies upload procurement spend data, which the platform automatically classifies against Fair Supply's global supply-chain model and overlays with emissions data, in line with the GHG Protocol. This maps emissions hotspots across suppliers, categories and countries without needing detailed supplier data upfront, so teams can focus on the material areas and the biggest levers for decarbonisation. Fair Supply has more than 150 customers, primarily large enterprises across mining, utilities, financial services, healthcare, government, real estate, construction and insurance.

60 billion supply chains modelled | **Tier 10** supply-chain depth | **150+** customers

What Fair Supply delivers

SaaS subscription access to the platform, available stand-alone or, more commonly, as an end-to-end package in which the platform automates most of the work and consulting completes the reporting obligations.

Selected clients

AustralianSuper · APA · Air New Zealand · Jemena · Isuzu · Seek · Ausgrid · Transgrid · Auckland Transport · Sobeys · Export Development Canada



HILTCRC

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

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Staff based in Melbourne · Perth · Brisbane

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Scan to connect

HILT CRC (Heavy Industry Low-carbon Transition Cooperative Research Centre)

HILT CRC accelerates and de-risks decarbonisation for heavy industry, including iron and steel, alumina and cement

HILT CRC gives its industry, research and government partners access to a collaborative R&D ecosystem connecting more than 75 organisations across heavy-industry operations, technology, research, policy and markets. It builds multidisciplinary, industry-defined programs that take decarbonisation options from concept through modelling, laboratory validation and pilot preparation.

Heavy-industry producers must make long-lived, capital-intensive investment decisions while many low-carbon technologies remain unproven at industrial scale, and a poor choice can lock in high costs, disrupt production or strand assets. HILT CRC forms project consortia around an industry-defined problem, combining experiments, advanced modelling and techno-economic analysis to test performance, integration, cost and emissions, and translating the results into validated models, pilot plans and decision tools.

By mid-2026 HILT CRC had completed 30 projects and had more than 25 underway, with an active portfolio valued above A$40 million. Capabilities span iron-ore beneficiation, hydrogen direct reduction and electric smelting; low-carbon alumina calcination and steam recovery; high-temperature thermal energy storage; hydrogen combustion; carbon capture, utilisation and storage; and economic, infrastructure, policy and certification analysis. Its work has been recognised with a 2025 Net-Zero Industries Award.

75+ organisations | **30** projects completed | **25+** underway | **A$40M+** active portfolio

What HILT CRC delivers

Partnership and co-investment in collaborative, industry-led R&D, through defined research projects or broader strategic partnerships — covering technology assessment and validation, modelling and experimental programs, techno-economic and life-cycle analysis, pilot and scale-up planning, policy and market analysis, certification research, and specialist education and workforce development.

Selected partners

Fortescue · South32 · Hydro · BHP · Rio Tinto · Alcoa · POSCO Holdings · Emirates Global Aluminium · Primetals Technologies · CSIRO · Adelaide University, Curtin University, Swinburne University, University of Newcastle, Grange Resources, OneSteel, State and Commonwealth Governments



FIRECOAT®
Paint on Protection

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

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Keysborough, Victoria · Nashville, Illinois, USA · Torpshammer, Sweden

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LinkedIn: **linkedin.com/showcase/firecoat-fire-protection**

Scan to connect

FLAME SECURITY INTERNATIONAL

Australian university-invented, certified wildfire products that are painted or sprayed on to protect the environment and structures

Flame Security International (FSI) makes FIRECOAT, the only fire protection product to achieve BAL 40 for exterior walls and USDA Qualified Products List certification for ground cover in extreme wildfires. Invented with UNSW, FIRECOAT is a paint-on and spray-on fire protection designed to protect people and the natural and built environment.

Climate change is contributing to an alarming increase in wildfire outbreaks and fire intensity globally. The UNSW and FSI products are environmentally friendly, cost-effective and certified to the highest Australian, US and EU standards for fire protection, and can be painted or sprayed onto structures and vegetation without harm.

The FIRECOAT range is available in Australia, the USA and Sweden, with Türkiye to follow, supported by AXA Türkiye. Its performance is backed by multiple independent certifications and building-scale fire field tests in Australia, the USA and Sweden. FSI has received three Australian Government Cooperative Research Centres Projects grants since 2018, won the Australian Financial Review 2024 Research Commercialisation Award, and was a 2026 Australian Museum Eureka Prize finalist.

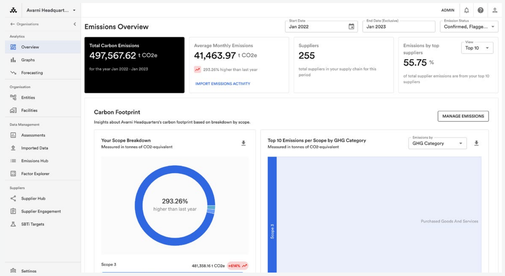
BAL 40 exterior wall rating | **USDA QPL** ground cover | **3** countries on sale

What FSI delivers

FIRECOAT fire protection coatings to paint or spray on homes, sheds, fences, schools and other structures and their surrounding vegetation, available through homeware and paint retailers and distributors.

Selected clients

Bunnings · ACE Hardware (USA) · Disney Studios California · Master Painters Australia · local government initiatives



AVARNI

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation · Energy Systems and Management

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Scan to connect

AVARNI

AI carbon accounting software that delivers audit-ready climate disclosures in 2–3 months, not 8

Avarni is an AI-powered carbon accounting platform purpose-built for Australia's mandatory climate disclosure regime (AASB S2/ASRS). It ingests emissions data directly from existing ERPs and spreadsheets, calculates full Scope 1, 2 and 3 emissions across more than 65,000 emission factors, and produces audit-ready reports with complete data traceability — without a multi-year IT project.

More than 6,000 Australian companies must now report Scope 1, 2 and 3 emissions under mandatory climate disclosure laws, with audit assurance required from year one. Most finance teams have no dedicated ESG function, no emissions data pipeline and no way to trace a reported number back to source, while engaging a large consultancy typically takes four to eight months and leaves the client without ownership of the methodology.

Avarni connects to more than 1,000 ERP, accounting and reporting systems, including SAP, Oracle, NetSuite, Workday and Power BI, and uses machine learning and OCR to match invoices and general ledger lines to the right emission factor across all 15 Scope 3 categories. Commercially deployed since 2021, it has processed more than $473 billion in enterprise accounting data and analysed $1.58 trillion in supplier spend across more than 311,000 suppliers. Avarni was named an AFR Sustainability Leader in 2023 and 2026.

$473B+ data processed | **311,000+** suppliers | **65,000+** emission factors | **1,000+** integrations

What Avarni delivers

A SaaS subscription for Scope 1, 2 and 3 emissions measurement, target-setting and audit-ready regulatory reporting, adaptable to other GHG Protocol-aligned regimes, with structured onboarding, data integration support and a dedicated account manager, plus support for consultants delivering climate reporting to their own clients.

Selected clients

99 Bikes · BDO · Cement Australia · COG Financial Services · Green by Nature · Latitude Financial · Marubeni-Itochu Tubulars Oceania



NEWCASTLE INSTITUTE FOR ENERGY AND RESOURCES

Australia's industry-facing translation and demonstration partner for green economy innovation

The University of Newcastle's Newcastle Institute for Energy and Resources (NIER) helps industry translate research into commercially relevant solutions for the green economy. It provides a pathway from research to commercial deployment through integrated access to multidisciplinary researchers and industrial-scale pilot facilities within a single innovation ecosystem.

Organisations pursuing decarbonisation, resource efficiency and sustainable growth face substantial technical, financial and operational risk when deploying new technologies. NIER helps overcome the 'valley of death' between research and commercial implementation, bringing together researchers, industry and government to co-develop, test and demonstrate technologies under real-world conditions before large-scale investment.

Based within a 3.8-hectare research precinct, NIER's capability spans energy systems, critical minerals, resource productivity, advanced materials, water and environmental sustainability. Its network includes more than 360 researchers and PhD candidates, 19 research centres and groups, and 195 industry partners working on clean energy, decarbonisation, circular economy and resource security.

360+ researchers | **19** research centres | **195** industry partners | **3.8 ha** research precinct

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation · Sustainable Mining Technologies · Waste-to-Value Solutions

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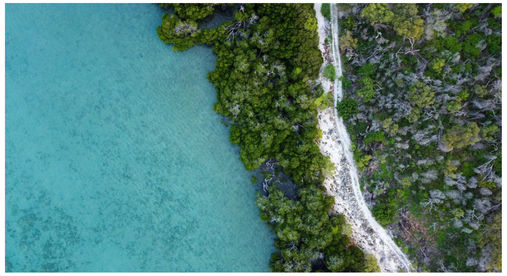
Website: **newcastle.edu.au/research/centre/nier**
LinkedIn: **linkedin.com/showcase/nier**

What NIER delivers

Collaborative research and development, technology validation and pilot-scale demonstration, specialist technical consulting, industry-focused innovation programs, workforce development and access to advanced research infrastructure.

Scan to connect





NEM AUSTRALASIA

Australia and Pacific advisory services delivering climate-resilient infrastructure and sustainable development projects

NEM Australasia specialises in end-to-end management of complex infrastructure and sustainable development programs, from feasibility, procurement and commercial structuring through to implementation and operational readiness. Its strength is bringing together governments, development partners, technical specialists, contractors and local stakeholders to deliver projects in challenging and remote locations.

Governments and development partners face significant delivery risk when implementing infrastructure in small and remote markets, where limited local capacity, complex procurement, multiple funding partners and constrained logistics can cause delays and cost escalation. NEM establishes a practical delivery framework around each project — integrating project management, procurement, commercial and financial management, governance, risk and logistics — and acts as the interface between clients, funders, technical advisers and contractors.

Drawing on more than 25 years of Australian and Pacific project delivery, NEM provided project management services for Palau's first international submarine cable and continues to support the Palau cable program, including the approximately US$30 million PC2 project. For the US$93 million East Micronesia Cable System, spanning Kiribati, Nauru and the Federated States of Micronesia, it provided project coordination and commercial and financial management, with the project completed in June 2026 on time and within budget.

25+ yrs Pacific delivery | **US$93M** East Micronesia Cable | **~US$30M** Palau PC2

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation · Energy Systems and Management · Smart Urban and Transport Systems

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What NEM delivers

Program and project management, PMO services, procurement and contract management, commercial and financial management, infrastructure advisory and feasibility support, governance and risk management, logistics and implementation planning, and project supervision and delivery assurance — as individual assignments or an embedded delivery team.

Selected clients

DFAT · Government of Palau and Belau Submarine Cable Company · Government of Timor-Leste · Government of Tuvalu · project entities in Kiribati, Nauru and the Federated States of Micronesia

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Pacific Legal Network
est. 2000

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation · Energy Systems and Management · Green Infrastructure

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Melbourne · Brisbane · Adelaide · Suva · Port Moresby · Honiara · Port Vila · Apia · Singapore · Jakarta

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Scan to connect

PACIFIC LEGAL NETWORK

Cross-border climate, infrastructure and litigation legal services for projects across 21 Pacific jurisdictions

Pacific Legal Network provides coordinated legal and regulatory advice for climate, infrastructure, energy and development projects across the Pacific. Through a network of local firms and lawyers in more than 21 jurisdictions, from Singapore to American Samoa, it helps governments, investors, development banks and businesses deliver complex cross-border projects with confidence.

Organisations investing in Pacific climate, energy and infrastructure projects face fragmented legal systems, regulatory uncertainty and high transaction costs when operating across multiple countries, which can delay approvals, financing and implementation. Pacific Legal Network provides a single point of coordination backed by trusted local lawyers, advising on project structuring, financing, regulatory approvals, climate funding, corporate governance and cross-border transactions.

With more than 25 years supporting investment, infrastructure and climate-related projects across the Pacific, the network advises governments, development banks, financial institutions, corporations, NGOs and not-for-profits. Its climate-positive practice covers renewable energy projects, climate finance arrangements, Green Climate Fund-related initiatives, regulatory reform and disaster recovery funding mechanisms, and it is accredited as a Green Climate Fund observer organisation.

21+ jurisdictions | **25+ yrs** Pacific experience

What Pacific Legal Network delivers

Cross-border legal advisory engagements, climate finance advisory, renewable energy and infrastructure project support, banking and project finance legal services, regulatory and governance advisory, and corporate, investment and transaction support across Pacific jurisdictions.



MONASH University

MONASH BUSINESS SCHOOL

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation

Address

HQ Pacific Action for Climate Transitions (PACT), 900 Dandenong Road, Caulfield East, Victoria
Clayton, Victoria · Malaysia · Indonesia · USA · Italy

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Scan to connect

Pacific Action for Climate Transitions

Natural capital and climate finance, adaptation and policy-oriented solutions that turn Pacific priorities into real interventions

Monash University's Pacific Action for Climate Transitions (PACT) turns Pacific climate and nature priorities into finance-ready, implementable programs, combining climate and economic analysis, policy and institutional design, climate-finance structuring, adaptation interventions and local capacity building. Its Pacific-led model, underpinned by a foundational partnership with Fiji National University, connects governments and regional institutions with Monash expertise and international climate-finance mechanisms.

Pacific governments and institutions face a persistent implementation and financing gap: limited institutional capacity, complex funding requirements and fragmented project pipelines can stop priorities becoming funded projects, with the Pacific adaptation financing gap estimated at roughly $1 billion a year. PACT co-designs climate and natural capital policies, investment strategies and finance-ready project pipelines with Pacific partners, then builds the capability to implement them.

Delivery includes Green Climate Fund readiness and National Adaptation Planning for SPREP and Nauru, forest bioeconomy and Papua New Guinea's National Forest Inventory for FAO, and a National Climate Finance Strategy for Papua New Guinea with Expertise France. Team members have developed proposals securing more than US$160 million in adaptation funding, with a further US$174 million in the pipeline, and Monash is a pre-qualified GCF Readiness and Project Preparation Facility provider.

US$160M+ adaptation funding secured | **US$174M** in the pipeline | **6** Pacific countries

What Pacific Action for Climate Transitions delivers

Consulting, technical assistance, research and capacity-building across climate-finance strategies and readiness, National Adaptation Plans, GCF and other climate-fund project preparation, economic and financial analysis, carbon markets, natural capital, loss-and-damage finance, and executive and practitioner training.

Selected clients

SPREP · FAO · Expertise France · DFAT · Green Climate Fund



DIVERSITY ARRAYS TECHNOLOGY

Genomics, biodiversity data and AI that improve agricultural productivity and nature outcomes

Diversity Arrays Technology (DArT) combines proprietary genomics technologies, biological data platforms and advanced analytics to deliver integrated solutions across agriculture, ecology and biodiversity. Building on more than 20 years of genomics development, it integrates data management, machine learning and AI to deliver biological intelligence for agriculture, ecology and the emerging nature-positive economy.

Farmers and breeders need reliable genetic information to improve productivity and climate resilience, researchers need affordable genomic data and analysis, and organisations managing land and natural assets need better evidence to understand risks and evaluate the impact of their decisions. DArT turns biological samples and environmental data into actionable information, while its NatureIQ platform lets organisations track natural assets and model the outcomes of planned actions.

DArT's DArTseq and DArTag technologies are commercially deployed across agriculture, forestry, biodiversity and environmental applications, delivered from two Australian facilities and accredited facilities in Mexico and Kenya. Its KDDart breeding and agronomy platform has been in production for more than a decade with around 800 users globally, and more than 15,000 scientific publications reference research using DArT technologies. Its dartR software package won the 2025 ARDC Eureka Prize for Excellence in Research Software and in 2026 DArT was ACT Exporter of the Year.

3,000+ customers | **100+** countries served | **15,000+** publications | **~800** KDDart users

What DArT delivers

Genomic testing and high-throughput DNA data production, bespoke genomics and bioinformatics services, data management and analytical solutions, technology licensing and specialist consultancy, supported by software including KDDart, Ecologue, Universal Test Bench and the NatureIQ and OneDArT SaaS platforms.

Customers

Universities, research institutions, breeding organisations, seed companies, governments and environmental organisations · 9 of the 13 largest seed companies

DArT diversity arrays technology

Sectors

Green Innovation and Skills Development

Key Capabilities

R&D and Innovation · Sustainable Agriculture · AgTech and Precision Farming

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Scan to connect



UNIVERSITY of TASMANIA

Sectors

Green Innovation and Skills Development

Key Capabilities

Education

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Scan to connect

UNIVERSITY OF TASMANIA

Research and education that develop skills and solutions for a sustainable future

The University of Tasmania delivers research, education and industry collaboration in areas where Tasmania offers a global advantage, including Antarctic and Southern Ocean science, renewable energy, sustainable agriculture, health and maritime innovation. It is home to the Institute for Marine and Antarctic Studies and the Australian Maritime College, Australia's national centre for maritime education, training and research.

Industry and governments face complex workforce, productivity and sustainability challenges but often lack the specialised skills, research capability and evidence to respond. The University helps organisations close that gap through collaborative research, testing, modelling, training and industry-engaged education, reducing the risks associated with skills shortages, emerging technologies, environmental change and evolving regulatory requirements.

The University has been ranked first in the world for Climate Action in the Times Higher Education Impact Rankings from 2022 to 2026, and sits in the top 300 of the 2026 Times Higher Education World University Rankings. It maintains more than 400 active partnerships across industry, government, community and research organisations, with its capabilities operating at scale through recognised research institutes, specialist facilities and long-term partnerships.

#1 Climate Action, THE Impact | **400+** active partnerships | **Top 300** THE World Rankings

What the University of Tasmania delivers

Research partnerships, contract research, specialist consulting, workforce training, and access to expertise and facilities across the Antarctic, marine, energy, agriculture, health and environmental sectors.



MAKE GREAT HAPPEN tafe Queensland

Sectors

Green Innovation and Skills Development

Key Capabilities

Education

Address

HQ Level 2, A Block, Mt Gravatt Campus, 1030 Cavendish Road, Mount Gravatt, Queensland
60+ campuses across Queensland · SkillsTech, Acacia Ridge · Southbank, South Brisbane

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Scan to connect

TAFE QUEENSLAND

Training in renewable energy, battery technology and sustainable industries for green economies

TAFE Queensland delivers industry-led training and workforce solutions in renewable energy, battery technologies and sustainable industries. Working closely with employers and industry partners, it keeps training aligned to workforce needs and emerging technologies, and builds scalable pathways for the skilled workforce a low-carbon economy requires.

Clean energy, battery and critical minerals projects are expanding rapidly, and Australia's clean energy sector is expected to need an additional 40,000 workers by 2030. Without a pipeline of job-ready workers, organisations face project delays, higher labour costs and difficulty adopting new technologies. TAFE Queensland designs targeted training, apprenticeships and upskilling programs with industry, government and education partners.

Its expertise spans solar PV systems, battery energy storage, electrotechnology, electrical engineering and workforce development for energy and utilities. TAFE Queensland leads the TAFE Centre of Excellence Clean Energy Batteries, backed by a A$20 million Australian and Queensland Government investment, which is developing and piloting workforce solutions in battery storage, renewable energy, electric vehicles and grid-connected systems.

60+ campuses | **A$20M** Centre of Excellence investment

What TAFE Queensland delivers

Nationally recognised qualifications, customised workforce training, micro-credentials, train-the-trainer programs, educator capability development and industry skills partnerships for governments, industry and education providers.



ELEPHANT IN THE ROOM CONSULTING

Building sustainable supply chains, workforce capability and Indigenous participation outcomes worldwide

Elephant in the Room Consulting is a First Nations-owned consultancy that helps governments, infrastructure providers, energy companies and major organisations build sustainable supply chains, strengthen workforce capability and deliver measurable social procurement, ESG and Indigenous participation outcomes. Its Indigenous-developed frameworks combine leadership, stakeholder engagement and procurement systems to create lasting economic and community impact.

Many organisations have sustainability, ESG, reconciliation and social procurement commitments but struggle to translate them into measurable outcomes, creating reputational risk, workforce capability gaps and missed procurement targets. The consultancy works alongside clients to assess capability gaps, engage stakeholders, co-design strategies and build practical systems that turn commitments on paper into measurable action.

Since 2017 it has supported more than 350 organisations. Since mid-2023 it has facilitated more than $15 million in contracts and grants for Indigenous businesses and contributed to a benchmark $45 million Indigenous procurement outcome through advisory support to BMD Group. It has trained more than 350 procurement professionals through Supply Nation programs, and its work has been recognised with a Gold Stevie® Award for Building Sustainable Supply Chains and as Queensland Premier's First Nations Exporter of the Year.

$15M+ Indigenous contracts & grants | **$45M** procurement outcome | **350+** organisations supported

Sectors

Green Innovation and Skills Development

Key Capabilities

Workforce Training · Education and Innovation

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What Elephant in the Room delivers

Strategic consulting, sustainable procurement and supplier diversity advisory, workforce capability and training programs, leadership development, Indigenous and stakeholder engagement, and Reconciliation Action Plan development, delivered through consulting engagements, facilitated programs and digital learning platforms including Empire Builders and Cultural Learning Academy.

Selected clients

BHP · Shell Australia · Anglo American · Thiess · AGL Energy · Alinta Energy · CBRE · BMD Group · Woolworths Group · Powerlink Queensland · Port of Brisbane

Scan to connect



LACAVE & PARTNERS

International business representation, climate and sustainability advisory, talent search and training

Lacave & Partners helps organisations accelerate growth and business development globally, strengthen capability through international talent search and training, and navigate sustainability and climate obligations. It acts as one embedded partner rather than four separate vendors, bundling commercial representation, climate and sustainability advisory, training and talent search into a single flexible relationship. Working through its global C-suite business network and select partners, including an international AI-powered climate SaaS provider for automated emissions inventories and product life cycle assessments, an Accredited Certificate Provider, an ISSB reporting consultancy and a global certification and verification bureau, Lacave & Partners delivers faster market access, reduced reporting burden and compliance risk, and data-driven climate and investment decisions.

Sectors

Green Innovation and Skills Development

Key Capabilities

Workforce Training

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What Lacave & Partners delivers

International business development support; access to partners for climate, nature and sustainability advisory; global talent search and training solutions for team cohesion and business transformation.

Selected clients

Unravel Carbon · EC Focus · Climate & Decisions

Scan to connect

Circular economy

Australia is developing innovative solutions that keep materials in use for longer, recover value from waste and create new opportunities from underused resources. Drawing on expertise in advanced recycling, remanufacturing and resource recovery, Australian businesses are helping industries reduce waste, strengthen supply chains and unlock new value from existing materials.

Australian organisations offer capabilities across advanced recycling, remanufacturing, waste-to-value technologies, resource recovery and sustainable materials that support the circular economy. From plastics, textiles and metals to organic waste, industrial by-products and carbon-rich feedstocks, Australian innovators are transforming waste streams into valuable products, energy and new commercial opportunities. These solutions help businesses reduce costs, improve sustainability outcomes and unlock additional value from existing resources, while supporting more resilient and efficient industries.

The companies featured here showcase Australia's circular economy capability. Their commercially proven technologies and services are ready to help customers and partners in global markets recover resources, strengthen supply chains and create new value from waste.

Circular economy subsectors

Waste-to-value solutions

Resource recovery solutions that transform waste streams into energy, materials, products and other sources of value.

Membrane Transporter Engineers
Woodlane Pantry
Airbridge
HydGene Renewables
Taurus Mats
Earth Systems
EVOCRA
ENTX
Broth of Life
Platform Zero
GreenSky Optimal
MCi Carbon
Clean&Recover
Verterra
NCI Packaging
Pacific Bio
Pyrocal
Wildfire Energy

Recycling and Remanufacturing

Solutions to support businesses to reduce waste, improve resource management, recover materials, and reuse resources.

The Udder Way
Premier Metals
Sims Metal
ElecSome
Samsara Eco
BlockTexx
Future Forgeworks
Regain
ConstructAmesh
Vaulta



Recycled plastics inspection



MEMBRANE TRANSPORTER ENGINEERS

Technology for harvesting critical metal, nutrient and clean water resources from industrial wastewater for reuse

Membrane Transporter Engineers (MTE) has developed BERST — Bioderived Element Resource Separation Technology — inspired by the way plants separate and recycle critical resources. Rather than relying on conventional, energy-intensive separation methods, BERST adopts the natural selectivity and efficiency of plant proteins to target specific resources and harvest them from complex wastewater.

Conventional wastewater treatment destroys valuable resources instead of recovering them. Agricultural and urban wastewaters lose ammonia that could be reused as fertiliser, while critical metals such as copper in mining tailings are lost rather than reclaimed. BERST uses biomimetic membranes and biological transport proteins to selectively capture metals, nutrients and clean water, achieving high selectivity at lower energy cost than conventional systems.

BERST systems are at TRL 4, with initial laboratory prototypes enabling significant target resource recovery. Several systems are being developed simultaneously, for critical metal harvesting from mining wastewater and nutrient harvesting from agricultural and urban wastewater. Founded by Professor Caitlin Byrt, Dr Annamaria De Rosa and Dr Samantha McGaughey at ANU's Research School of Biology, the team has validated the technology at lab scale and is manufacturing prototypes for field testing with industry partners.

Membrane Transporter Engineers

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions

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Scan to connect

What MTE delivers

Bespoke waste-to-value consulting and technology-development partnerships, with BERST membranes tailored to each customer's wastewater stream, from waste-stream characterisation through prototype design, pilot testing and field deployment.



WOODLANE PANTRY

Shelf-stable meals that reduce food waste while helping older Australians eat well and stay independentt

Woodlane Pantry turns quality surplus and second-grade produce into commercially viable, shelf-stable foods, including simple meals for older Australians. Its circular model extends ingredient life, creates new markets for growers and turns challenging produce into high-value products — an approach recognised with the 2025 SA Rural Women's Award.

Australian growers lose income when surplus or second-grade produce has no viable market, while still carrying harvesting, handling and disposal costs. At the other end of the supply chain, older Australians need affordable, nourishing meals they can prepare safely without shopping, peeling or extensive cooking. Woodlane Pantry connects the two, dehydrating and formulating underused produce into lightweight meals that need only water and 10–15 minutes of cooking.

The business runs a commercial-scale dehydration and product-development capability, combining a 160-tray air-drying system that completes two to three production runs a day with targeted freeze-drying for ingredients needing greater colour, flavour or nutritional retention. Products are packed in home-compostable pouches and sold through retail, wholesale and online channels across Australia, with production of around 4,000 packets a month. Since launching, it has rescued more than 170 tonnes of surplus produce, developed over 70 products, produced more than 75,000 meals and returned over $1 million in value to farmers and growers.

190+ t produce rescued | **87,000+** meals produced | **$1M+** returned to growers | **70+** products innovated

Woodlane Pantry

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions

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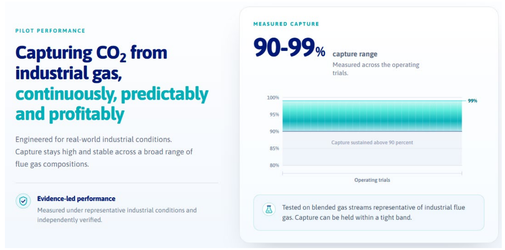
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Scan to connect

What Woodlane Pantry delivers

Shelf-stable meals, snacks and value-added food products through wholesale or distribution agreements, plus surplus-produce innovation consulting, product formulation, dehydration trials, small-batch processing and bespoke product development for producers, food businesses, care providers and distributors.



airbridge
steps toward a cleaner planet

AIRBRIDGE

Airbridge captures industrial flue-gas CO_2 and turns it into profitable, low-carbon products for global markets

Airbridge combines carbon capture and conversion in a single modular process. Its internationally patented reactor treats industrial exhaust gases containing 2–100% CO^2 at ambient conditions, capturing more than 90% of the CO^2 and converting it into over 15 value-added, low-carbon products, including limestone, fertilisers and industrial chemicals. The result is product revenue at a net profit per tonne of CO^2 removed, without reliance on carbon credits.

Industrial emitters face a costly choice: pay to capture and permanently store CO^2, or vent it and face rising carbon costs, tighter baselines and customer pressure for lower-carbon products. Conventional carbon capture and storage requires concentrated, clean CO^2 and adds cost without creating revenue. Airbridge instead produces a flexible mix of saleable products for construction, agriculture and chemical markets, avoiding reliance on a single product market.

Airbridge connects directly to the stack of a cement plant, fertiliser manufacturer or waste-to-energy facility, capturing CO^2 even at low concentrations. The company operates a pilot plant in Perth, and its reactor has been validated at TRL 5 with Curtin University, the University of Western Australia and Lycopodium Process Industries. Pre-FEED is complete, with commercial-scale demonstration progressing to TRL 6+ through a government-backed project with Yara Pilbara Fertilisers.

90%+ CO_2 captured | **2–100%** CO_2 flue gas | **15+** low-carbon products | **TRL 5** validated

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Clean Energy · Agriculture

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What Airbridge delivers

Modular carbon-capture-and-conversion plants supplied as engineered equipment packages or developed with host partners, together with feasibility studies, process design, technology licensing and project-development partnerships.

Selected clients

Yara Pilbara Fertilisers · an Australian-owned and operated anaerobic digestion waste-to-energy facility

Scan to connect



HydGene Renewables

HYDGENE RENEWABLES

Renewable hydrogen for fuels and fertilisers from biomass

HydGene Renewables produces renewable hydrogen from biomass, offering an economical alternative to electrolysis. Cost-effective green fuels and fertilisers have been beholden to the price of renewables until now — HydGene's catalyst offers an alternative method for low-carbon hydrogen production that integrates with conventional methanol or ammonia synthesis infrastructure to produce green chemicals.

HydGene can deliver low-carbon hydrogen at scale, competitive with grey hydrogen when using feedstocks that would otherwise incur gate fees.. Ammonia manufacturing operations that integrate the HydGene catalyst decrease energy consumption by up to 95%, dramatically reducing carbon impact.

The HydGene biocatalyst is a long-lived, durable material that converts sugars derived from biomass into hydrogen — a cost-effective route to green chemical manufacturing, fuels and biogas supplementation. Biogenic CO2 is a versatile co-product that complements methanol and sustainable aviation fuel production, and the technology is ready for integration into any project requiring low-carbon, renewable hydrogen. It sits at TRL 6–7, with a pilot plant in western New South Wales using wheat straw as feedstock reaching production of up to 50 kg per day by January 2027.

95% ammonia energy | **TRL 6–7** readiness | **6** deployments planned

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Agriculture · Emerging Fuels

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What HydGene delivers

Licensing opportunities for chemical manufacturers, project developers and plant operators to adopt and integrate the HydGene biocatalyst into projects for methanol, ammonia and sustainable aviation fuel.

Scan to connect



TAURUSMATS

TAURUS MATS

Taurus Mats repurpose end-of-life tyres into durable high-value matting for civil and ag applications

Taurus Mats re-engineers the properties that make tyres a waste burden — extreme durability, high tensile strength and weather resistance — into heavy-duty woven matting, without energy-heavy mechanical destruction. Its decentralised, low-energy "Business-in-a-Box" upcycling model addresses waste, supply-chain and social challenges at the source.

Harsh Australian weather, unsealed roads, high-traffic drainage channels and intensive cattle movements cause rapid ground degradation, soil erosion, bogging and livestock injuries. Taurus Mats' flexible, high-performance ground barrier stabilises unsealed roads, controls high-traffic erosion and provides safe, non-slip footing that protects livestock and reduces mud.

Rather than shredding tyres into crumb rubber with energy-intensive, capital-heavy machinery, Taurus Mats directly upcycles discarded tyre treads, weaving high-tensile rubber strips into flexible, industrial-grade matting held together with heavy-duty stainless steel fasteners, for agricultural, civil and remote infrastructure applications.

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Workforce Training

What Taurus Mats delivers

Heavy-duty woven rubber matting for agricultural, civil and ground-stabilisation infrastructure; turnkey portable manufacturing equipment and IP licensing for regional operators, government bodies and communities to manufacture matting locally; and on-site deployment, integration and community workforce training.

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Selected clients

Smithfield Cattle Company · Reiland Angus

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Scan to connect





EARTH SYSTEMS
Environment · Water · Sustainability

EARTH SYSTEMS

Patented pyrolysis technology that converts organic waste into valuable carbon products and carbon credits

Earth Systems has a world-leading patented pyrolysis technology, the CharMaker, that can convert any organic waste into valuable carbon products. The process is carbon negative and therefore generates carbon credits, creating significant additional income alongside the carbon products themselves.

Many businesses generate significant amounts of organic waste as a by-product of production, and this waste often becomes costly to dispose of. The CharMaker takes these traditional organic waste streams and turns them into commercially valuable, stable carbon products such as biochar and activated carbon, converting a disposal cost into income-generating opportunities.

The CharMaker is one of only four pyrolysis technologies endorsed globally by Puro Earth, following a rigorous vetting process that requires the applicant to prove the technology works as intended and does not negatively impact the environment. Earth Systems has numerous operating CharMaker reference sites at different scales across Australia, New Zealand, Malaysia, Thailand, Hong Kong and Sweden.

1 of 4 Puro Earth-endorsed pyrolysis technologies | **6** countries with reference sites

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Clean Energy · Sustainable Agriculture

What Earth Systems delivers

Equipment supply, EPC delivery, facility operation, product sales and consulting for CharMaker pyrolysis projects.

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Vientiane · Hanoi · Shanghai · Hong Kong · Colombo · Kigali · Dakar · Abidjan · Bristol · Medellín

Selected clients

Australia's largest agricultural co-operative · Environmental Protection Department, Hong Kong · Skanska

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Scan to connect





evocra
WATER SOLUTIONS:EVOLVED

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Water and Waste · Waste Free Mine / Smart Water Mine

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Scan to connect

EVOCRA

Water treatment providing cost benefits and water resources with near-zero waste generation

EVOCRA's patented Ozofractionation process removes PFAS, heavy metals, organics and suspended solids in one continuous-flow stage, without the multi-stage pretreatment required by competing technologies. Its standout capability is speed and scale: EVOCRA built and commissioned a plant that treated 20 million litres of PFAS-contaminated water at Brisbane Airport within eight weeks.

Airports, utilities, mines and industrial sites treating PFAS and other contaminated water face escalating hazardous-waste costs, with spent treatment media and clarification sludges costing more than $1,000 a tonne for landfill disposal, while discharge limits continue to tighten. EVOCRA eliminates these costs with its Ozofractionation process and destruction technology partnerships. Ozofractionation removes most contaminants by oxidation, flotation, sedimentation or a combination of all three, typically producing more than 99.5% clean water by volume and less than 0.5% that can be destroyed, enriched or sent for disposal.

Originally developed in 2011 to treat acid mine drainage at MMG's Rosebery mine in Tasmania, the process has since treated industrial sewage at Brisbane Airport, fire-training run-off for Airservices Australia, landfill leachates and industrial liquid wastes. When coupled with destruction, 100% of the water is cleaned and more than 99.9% of PFAS removed. North American licensee E2METRIX is deploying the technology at flow rates of 1,000,000 litres a day and beyond.

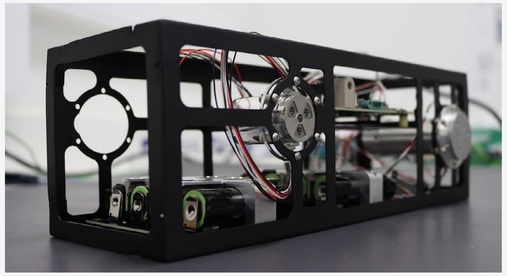
20 ML treated in 8 weeks | **>95%** clean water by volume | **>99.9%** PFAS removed

What EVOCRA delivers

Water treatment for priority pollutants through Build Own Operate & Maintain arrangements for mobile plants, or Design Build Commission Transfer & Technical Services for fixed plants, together with technology licensing and partnership opportunities outside of Australia and North America.

Selected clients

Airservices Australia · Qantas · Brisbane Airport · Cleanaway · SITA Waste (now Veolia) · Hatch · Arcadis · Tassal



entX

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · R&D and Innovation · Sustainable Mining Technologies

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Scan to connect

ENTX

Nuclear technologies that turn underutilised resources into medical isotopes, energy and advanced power systems

entX combines nuclear science, resource recovery and advanced manufacturing to develop commercially scalable technologies across healthcare, energy, space and defence. It recovers value from underutilised resources and converts them into commercially useful products, with capabilities spanning isotope recovery and processing, advanced radioisotope manufacturing, nuclear batteries, and radioisotope power and heating systems for demanding applications.

Customers face growing pressure to secure critical materials, reduce reliance on constrained supply chains and extract greater value from existing resources. In nuclear medicine, shortages of key isotopes can restrict access to targeted cancer therapies, while conventional power sources can require frequent maintenance, refuelling or large batteries, limiting operations in remote or extreme environments. entX recovers isotopes and resources from unconventional feedstocks and applies nuclear science and advanced manufacturing to create new supply and long-duration power solutions.

Its IsoMedica program has achieved end-to-end production of commercially relevant quantities of Pb-212 precursors, with optimisation underway for production readiness, and entX is developing an Advanced Radioisotope Manufacturing Facility in South Australia. Its Radioisotope Heating Unit has produced and validated fuel pellets and completed structural, vibration and thermal-vacuum testing, with a flight-heritage demonstration planned from Spaceport America in early 2027. Its GenX nuclear battery has moved into prototype manufacturing, supported by a $1.8 million collaboration with the Additive Manufacturing CRC and Adelaide University.

$1.8M AMCRC collaboration | **$1M** Australian Space Agency grant | **2027** RHU flight demonstration

What entX delivers

Technology development and commercialisation partnerships, process technology and supply opportunities across medical isotopes, resource recovery and advanced nuclear power, including isotope recovery and processing technologies, Pb-212 supply-chain solutions, GenX betavoltaic power systems and RHU radioisotope heating systems.



BROTH OF LIFE

Transforming organic food by-products into high value human and pet nutrition through circular manufacturing

Broth of Life combines certified organic food manufacturing with a circular process that creates human and pet nutrition products from the same agricultural resource, with residual material returned to agriculture as fertiliser. Its standout capability is extracting maximum value from certified organic animal by-products through a cascading production model.

Food manufacturers struggle to create value from animal by-products that are often underutilised or directed into low-value waste streams, while international buyers seek traceable, clean-label and sustainably produced ingredients. Broth of Life first uses certified organic bones to manufacture human bone broth powders; suitable recovered materials then go into pet nutrition products, with a bone meal product in development, and remaining organic material is recycled into blood and bone fertiliser.

The circular model is commercially operational at the company's certified organic manufacturing facility on Queensland's Sunshine Coast, which processed approximately 9.5 tonnes of certified organic bones in 2025. Using dehydration and freeze-drying, it produces shelf-stable broth powders with a two-year shelf life, sold across Australia through retail, wholesale and distribution channels.

~9.5 t organic bones processed, 2025 | **2 yrs** shelf life

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Sustainable Agriculture

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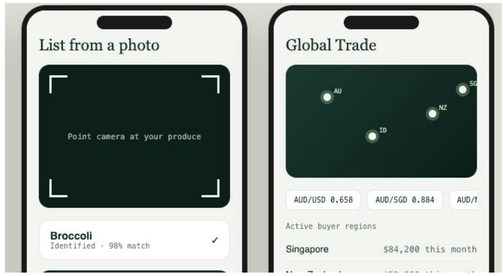
What Broth of Life delivers

Certified organic bone broth powders, bulk ingredients, pet nutrition products, bone-derived nutritional products, and contract and private-label manufacturing using circular food production processes.

Selected clients

BioLiving · HealthyLife · Honest to Goodness

Scan to connect



PLATFORM ZERO

PLATFORM ZERO

Digital marketplace giving produce sellers a wider buyer network and payment within hours, not weeks

Platform Zero digitises the fresh-produce trade cycle end to end. Sellers list stock on a live Trading Floor that gives them a wider network of direct buyers, nationally and through a global export gateway, and payment settles within hours through its embedded fintech, ZeroPay, with payment risk shifted to the buyer.

Fresh produce is still traded by phone and through a handful of known contacts, which limits access to buyers once existing relationships are exhausted. Food waste is the third-largest driver of global emissions, much of it A-grade produce that never reached a buyer in time, while sellers lose 20+ hours a week to manual bookwork and spend weeks chasing unpaid invoices.

The platform is commercially live, not a pilot, operating with growers and wholesalers across Australia, and its Trading Floor connects more than 5,000 sellers with buyers. Platform Zero reports that sellers cut 20+ hours of weekly bookwork and lift revenue by up to 40%. For export, it guides sellers on how to trade with each country and what that country's import requirements are, with no language barrier.

5,000+ sellers connected | **Hours** to payment | **Up to 40%** revenue uplift | **20+ hrs** saved a week

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Sustainable Agriculture

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What Platform Zero delivers

A SaaS subscription for global trade: one platform to manage everything from supplier communications to buyer sales, connecting sellers to more international buyers and guiding them through each country's import requirements.

Scan to connect



GreenSky® Optimal Greens

GREENSKY OPTIMAL

Freeze-dried whole-vegetable sachets made from surplus and off-spec Australian produce, with no cold chain required

GreenSky processes whole Australian vegetables — skin, seed, stem and rind included — into freeze-dried, single-serve sachets, without the grading or trimming most vegetable processing requires. Crops rejected on looks alone go through the same high-pressure processing and freeze-drying as any other batch, at full nutritional value.

According to ABS data, 94% of Australian adults do not meet the recommended daily vegetable intake, a gap linked to higher long-term risk of cardiovascular disease, diabetes and certain cancers. Fresh greens are expensive per usable gram, perishable and easily skipped. GreenSky's sachets rehydrate in seconds with no washing, chopping or cooking, and a two-year ambient shelf life means they are still usable when the customer needs them.

GreenSky combines high-pressure processing with freeze-drying on whole produce, owning the formulation and process IP while production runs through two contracted Australian manufacturers. Its first commercial production run, at pilot scale in June 2026, processed 1.53 tonnes of vegetables into 12,300 sachets across three formulations. Food-safety validation is complete, with all three blends testing below the pH 4.6 threshold for shelf-stable acidic foods, and nutritional validation is under way through a University of Queensland simulated digestion trial.

1.53 t produce processed | **12,300** sachets, first run | **2 yrs** shelf life

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Sustainable Agriculture · R&D and Innovation

What GreenSky delivers

Optimal Greens freeze-dried whole-vegetable sachets, sold direct to consumers by subscription or one-off purchase, with supply and private-label arrangements available to retailers, food manufacturers and food-service operators, scoped per enquiry.

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Scan to connect





MCi® CARBON

MCI CARBON

Mineral carbonation plants turning $CO2_2$ from hard-to-abate industries into materials for manufacturing and construction

MCi Carbon runs mineral carbonation plants that take CO^2 directly from industrial flue gas and react it with magnesium or calcium silicate feedstock in a low-temperature, low-pressure process. The carbon is chemically locked into solid carbonates and silica, so it needs no ongoing monitoring or storage licence, and the output can be sold or returned to the customer's own supply chain.

Hard-to-abate industries such as steel, cement and refractories have process emissions that electrification cannot remove. At its Myrtle demonstration plant, MCi Carbon runs structured campaigns: a customer sends its own flue gas profile and mineral feedstock and receives carbonate product samples, abatement data and a techno-economic model built on its own inputs.

Myrtle opened in Newcastle in June 2026 and mineralises about 2,500 tonnes of CO^2 a year into around 10,000 tonnes of carbonated materials. RHI Magnesita, its first commercial customer and an investor, is working with MCi Carbon on an industrial-scale plant at Hochfilzen, Austria, designed to process about 50,000 tonnes of CO^2 a year. MCi Carbon holds 10 patent families.

2,500 t CO_2 a year, Myrtle | **~10,000 t** materials a year | **50,000 t** planned, Austria | **10** patent families

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Sustainable Mining Technologies · Green Infrastructure

What MCi Carbon delivers

Paid demonstration campaigns at Myrtle, technology licensing and plant deployment with EPC partners, joint development and FEED studies, and supply of carbonate and silica materials for customer qualification.

Selected clients

RHI Magnesita · Mitsubishi UBE Cement · Transport for NSW · Boral

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Scan to connect





Clean & Recover

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Sustainable Mining Technologies

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Scan to connect

CLEAN&RECOVER

Cleaning acid mine drainage while recovering metals, sulphates and clean water at lower cost than lime treatment

Clean&Recover cleans acid mine drainage to a standard where it can be reused or released to the environment, and captures the dissolved metals and sulphates. Rather than treating drainage as a waste, it commercialises it, recovering metals, sulphates and clean water at a lower treatment cost than existing methods such as lime or caustic soda adjustment.

Its patented technology uses electricity to drive the sulphate out of the drainage, which raises the pH and causes the dissolved metals to precipitate. The method involves no chemicals and is lower cost and more controllable than traditional drainage management. It gives miners water resilience through an additional water source, supports rehabilitation of closing mines and saves the carbon emissions associated with using lime.

The technology is at TRL 7. Clean&Recover has treated multiple acid mine drainages and installed a pilot plant at Boliden's plant in Sweden, and has strong supplier relationships and fully developed plans for a large-scale plant. Boliden supported the technology at the 2026 International Mine Water Association conference in South Korea, highlighting the favourable settling and volume characteristics of its metal sludges. Two peer-reviewed journal articles cover its ability to capture rare earths and critical metals from acid mine drainage.

What Clean&Recover delivers

Treatment of acid mine drainage to a standard for environmental release or reuse at the customer's preferred pH. Clean&Recover builds and operates the plant and shares the revenue from the metals and sulphates it produces.

Selected clients

Boliden

PROVE
MEASURE. MONITOR. IDENTIFY.
IMPROVE
REHABILITATE. RESTORE. OPTIMISE.
VALUE
RECOVER. REUSE. CAPITALISE.

Verterra
ECOLOGICAL ENGINEERING

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Landscape Rehabilitation

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Scan to connect

Verterra Ecological Engineering

Nature-based systems that turn waste streams and degraded landscapes into productive assets

Verterra designs and delivers nature-based systems that convert degraded landscapes wastewater, biosolids and industrial by-products into productive resources. Its PROVE, IMPROVE, VALUE Performance Ecosystem connects proprietary science-based solutions in environmental measurement, landscape rehabilitation, resource reuse and natural capital, giving clients a streamlined pathway from environmental liability to beneficial reuse.

Utilities, mines and industrial operators manage large volumes of wastewater, biosolids and residual materials that are costly to treat, store or dispose of. Verterra characterises waste streams, soil, water, land capability and regulatory pathway, then designs and implements fit-for-purpose systems. These may include agricultural irrigation, constructed wetlands nutrient management, soil amendment and land application. VerterraPROVE - Verterra's proprietary environmental performance intelligence platform - establishes baselines and monitors ongoing performance to generate verifiable data demonstrating reportable outcomes.

Verterra's ReValue Nutrients service and BYV Organics joint venture manage the beneficial reuse of over 37,000 tonnes of biosolids each year. The service includes transport, crop nutrition, data management and regulatory compliance. In addition, its ReValue Water solution has assessed and designed reuse pathways for projects managing up to 1.8 million litres per day of saline and sodic coal seam gas water. Verterra-designed natural water systems also treat up to 925kL of effluent each day.

100,000+ t biosolids reused a year | **~ 1.8 ML/day** CSG water reuse designed | **≤ 925 kL/day** effluent treated

What Verterra delivers

Technical consulting, feasibility and regulatory planning; detailed design of water, nutrient and land reuse systems; project implementation and on-ground operations; forestry; ecosystem markets; and environmental monitoring, verification and performance reporting, through ReValue Water, ReValue Nutrients and VerterraPROVE, supported by ReVive and ReVert soil and landscape rehabilitation.

Selected clients

Unitywater · Seqwater · Queensland Urban Utilities · Origin Energy · Santos · Anglo American · Peabody · Glencore · Great Barrier Reef Foundation



NCI
shaping the future

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions

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Scan to connect

NCI PACKAGING

Oceania's first and only digital printing on metal tinplate, reducing packaging waste and obsolete stock

NCI Packaging offers sustainable metal and plastic packaging that helps customers reduce waste, improve flexibility and meet their sustainability goals. It is the only company in Oceania offering commercial digital printing directly onto metal tinplate, and it incorporates post-consumer recycled (PCR) plastic into selected products.

Digital printing reduces minimum order quantities, so customers order exactly what they need. With no traditional printing plates, it speeds product launches, shortens lead times, supports short-run, versioned and seasonal packaging and reduces obsolete packaging inventory. Recyclable metal packaging and PCR plastic help customers increase recycled content and support circular economy initiatives.

The digital print technology is fully commercialised and deployed within NCI's Australian manufacturing operations, serving customers across the paint, coatings, industrial and consumer goods sectors. NCI exports packaging products to its operations in New Zealand, Fiji and Papua New Guinea, and supports multinational and regional manufacturers across the paint, coatings, food and industrial sectors.

What NCI Packaging delivers

Metal tinplate packaging with digital printing, and plastic packaging with post-consumer recycled content, supporting short-run, versioned and seasonal orders for manufacturers across Australia, New Zealand, Fiji and Papua New Guinea.



Pacific Bio

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Water and Waste · Hydrogen, ETS and Emerging Fuels

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Scan to connect

PACIFIC BIO

Turning wastewater into cleaner water and valuable products using macroalgae

Pacific Bio integrates wastewater treatment with biomass production and downstream value creation. Its RegenAqua platform passes wastewater through macroalgal bioreactors, where native macroalgae absorb nutrients as they grow. Treated water returns to the environment while the harvested biomass becomes agricultural products and a feedstock for renewable fuels.

Water utilities and industries face rising costs and regulatory pressure to reduce nitrogen and phosphorus in wastewater, and conventional upgrades can need significant capital, energy and chemicals. RegenAqua is a lower-cost, nature-based alternative: ABC reported a project cost of about $8 million for the Burdekin facility, against $30 million for a conventional treatment facility.

The flagship facility at the Ayr-Brandon plant in Queensland, operating since 2024, treats up to 2.4 ML of wastewater a day and has demonstrated nutrient-load reductions of up to 90%. It has generated its first 1,189 Reef Credits, with about 5,000 a year forecast at full performance, and won the 2025 Australian Water Association Queensland Infrastructure Project Innovation Award (Regional). Harvested macroalgae feeds its PlantJuice agricultural products.

2.4 ML wastewater a day | **Up to 90%** nutrient reduction | **1,189** Reef Credits

What Pacific Bio delivers

Design, engineering, construction, operation and maintenance of RegenAqua facilities, including DBOM and BOOT models, plus PlantJuice agricultural products and Reef Credits for eligible facilities in Great Barrier Reef catchments.

Selected clients

Burdekin Shire Council · Sydney Water



PYROCAL

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Agriculture · Water and Waste

Address

HQ 4 Environmental Drive, Wellcamp, Queensland

Contact

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PYROCAL

Biosolids/Biomass carbonisation technology with 93% PFAS & 80% microplastics destruction, disposal savings & emissions reduction

Pyrocal's Continuous Carbonisation Technology has evolved over a decade of development, optimisation and operational learning to transform challenging organic waste such as biosolids and biomass into biochar, recover heat and cut carbon emissions. Its Toowoomba R&D facility has tested a diverse range of feedstocks, allowing Pyrocal to quickly assess new materials and give clients greater confidence in project viability, plant performance and expected outputs.

Operators of difficult waste streams carry disposal costs and landfill reliance. Pyrocal's process dries and carbonises feedstocks continuously into stable, valuable biochar, capturing and thermally oxidising gases to control emissions and recovering heat for drying or other operational needs. This reduces waste volumes, landfill reliance and disposal costs, while creating potential revenue from biochar and carbon credits.

The technology is commercially deployed at the Loganholme Wastewater Treatment Plant in Queensland, where a full-scale $28 million facility opened in April 2022 and reduces biosolids volumes by approximately 90%. A CCT20 system at Stahmann Webster's Leeton facility in New South Wales is designed to process up to 5,000 tonnes of walnut shell waste a year, producing biochar for orchards and projected to sequester approximately 3,000 tonnes of CO^2-e annually.

~90% biosolids volume reduction | **5,000 t** walnut shells a year | **~3,000 t** CO_2-e sequestered a year

What Pyrocal delivers

End-to-end carbonisation solutions for biosolids and biomass — feedstock assessment, process design, equipment supply, installation, commissioning and operational support — delivered as complete EPC projects or modular CCT systems, alongside feasibility studies, testing and consulting.

Selected clients

Logan City Council · Stahmann Webster · Capital Regional District (Canada)



WILDFIRE ENERGY

Sectors

Circular Economy

Key Capabilities

Waste-to-Value Solutions · Water and Waste · Green Infrastructure

Address

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Contact

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Jamie.Roodenrys@wildfireenergy.com.au

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WILDFIRE ENERGY

Energy and biofuels from municipal waste

Wildfire Energy has invented, proven and patented technology that allows large towns and small cities to cost-effectively and environmentally convert their landfill waste into an energy resource. Its MIHG technology allows energy-from-waste projects to be commercially viable at far smaller scale than existing incineration processes.

Previous energy-from-waste technologies have relied on processes invented for other purposes, and have failed. Wildfire developed MIHG specifically to process municipal solid waste without the extra cost and challenge of pre-processing or sorting feedstock, dramatically reducing the cost of goods sold and increasing the availability and throughput of the facilities constructed.

Wildfire has operated and evolved its pilot plant in Brisbane for six years, proving the technology on a wide range of problematic feedstocks. The technology can be deployed at a process scale of between 30,000 and more than 500,000 tonnes a year, providing reliable energy and biofuels-from-waste solutions where no option previously existed. Having raised funding and secured environment and development approvals, Wildfire is constructing its first commercial-scale project in 2027. Its recognition includes the IChemE Global Sustainability Award (2025) and the Hitachi Global Innovation Award for Circular Economy.

30,000–500,000+ t a year process scale | **6 yrs** pilot plant operation | **2027** first commercial project

What Wildfire Energy delivers

Energy and biofuels-from-waste solutions based on its MIHG technology, with Wildfire seeking early project investigations in new markets and potential delivery partners.

Selected clients

Mitsui Kinzoku · Honeywell UOP · BP · Queensland Urban Utilities · Unitywater · Queensland local government entities



THE UDDER WAY

Reusable milk keg system eliminating single-use plastic packaging from foodservice, at commercial scale

The Udder Way operates Australia's largest reusable dairy keg network — the only end-to-end reusable milk keg platform with per-keg digital traceability. Its 18-litre HACCP-certified kegs replace single-use milk packaging across more than 650 cafés, hotels and foodservice venues, each tracked by QR scan from dairy to venue and back, across five Australian states.

Australian cafés and foodservice venues discard millions of single-use plastic milk bottles each year, generating disposal cost, compliance liability and brand risk. A mid-size café handling 40 litres daily produces over 7,000 bottles annually, while hotel groups and corporate campuses face the problem at far greater scale. No scalable commercial reuse system for dispensed dairy existed before.

Milk is supplied in sealed kegs connected directly to tap dispensers — no bottles, no caps, no waste. Empty kegs are collected, washed to HACCP standard, refilled at the dairy and returned. Made from food-grade recycled plastic rated for more than 800 fill cycles, each keg carries a unique QR identifier scanned at every stage. Milk waste falls by around 15%, and a single dairy avoids approximately 1.4 million plastic bottles a year.

650+ venues served | **900+** kegs in fleet | **800+** fill cycles per keg | **~1.4M** bottles avoided

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

Address

HQ 67 Cromwell Street, Perth, Tasmania
Caldermeade, Victoria (dairy source and production facility)

Contact

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ed@theudderway.com

Website: **theudderway.com**
LinkedIn: **linkedin.com/company/the-udder-way**

What The Udder Way delivers

A keg supply and logistics subscription with no capital outlay, plus white-labelling of the keg fleet and tracking platform for dairies, and SaaS licensing for keg-fleet management, traceability and ESG reporting.

Selected clients

1 Hotel Melbourne · corporate campuses · university foodservices

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PREMIER METALS

Premier Metals recycles ferrous and non-ferrous metals, transforming waste into resources for a circular economy

Premier Metals specialises in the large-scale processing, recovery and export of ferrous and non-ferrous metals, supported by advanced recycling infrastructure and strong international market access. It turns high-volume scrap streams into quality recycled commodities ready for reuse in global manufacturing and steelmaking, and was named 2025 Australian Exporter of the Year and national Sustainability and Green Economy category winner in the Australian Export Awards.

Businesses generating large volumes of scrap face costly storage, transport, compliance and disposal challenges, while valuable metals can be lost through inefficient recovery. Premier Metals provides reliable high-volume collection, processing and resource recovery, converting metal waste into market-ready recycled commodities and reducing landfill, handling costs and environmental risk.

Operating commercial-scale recycling infrastructure in Western Australia, the company collects, sorts and processes scrap through industrial material handling, segregation, shearing, baling and shredding, preparing metals to recognised commodity specifications for local and international manufacturers. Its facility is expanding to process up to 100,000 tonnes of material a year, recovering more metal from complex scrap streams and producing higher-quality recycled commodities.

2025 Australian Exporter of the Year award winner | **2025** Green Economy | **100,000 t** capacity target

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

Address

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What Premier Metals delivers

Processed ferrous and non-ferrous recycled metals, including shredded steel, HMS, aluminium, copper and brass, supplied to agreed specifications through containerised export, alongside scrap collection, processing and resource recovery services.

Customers

Steel mills, foundries, traders and extrusion manufacturers across India, Bangladesh, Southeast Asia and the Middle East · industrial, construction, automotive, demolition and government customers in Western Australia

Scan to connect





SIMS METAL

Sims recycles metals and technology globally, reducing emissions, conserving resources, and advancing circular economy solutions

Sims Metal is Australia's only national end-to-end metal recycling service provider, with a network of 40 facilities across every state and territory. Its purpose is to create a world without waste to preserve the planet for future generations — and while circularity is a relatively new concept, it has been at the core of the business for nearly 110 years.

Sims Metal supplies high-quality recycled metals to remanufacturers in place of virgin materials, avoiding the emissions associated with extracting and refining virgin ores. In the next few years, more new steel is expected to be made in Australia from processed ferrous scrap than from iron ore, and low-carbon steel produced from scrap is essential for infrastructure, manufacturing and the renewable economy of the future.

The company operates large-scale industrial metal shredders and non-ferrous processing and export sites in all of Australia's mainland capital cities, coupled with an extensive multi-modal domestic and export logistics supply chain. Sims Metal is the largest supplier of high-quality, furnace-ready ferrous scrap to Australia's sovereign steelmaking industry.

40 facilities nationwide | **Every** state and territory | **~110 yrs** of circular operations

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

What Sims Metal delivers

High-quality processed ferrous and non-ferrous recycled metals, including copper, aluminium, brass and stainless steel, for steelmakers and metal remanufacturers, backed by national collection, industrial-scale processing and multi-modal export logistics.

Address

HQ Level 9, 189 O'Riordan Street, Mascot, New South Wales

Customers

Australia's sovereign steelmaking industry · buyers of processed ferrous and non-ferrous metals across Chinese, South-East Asian, subcontinental and Middle Eastern markets

Contact

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ELECSOME

Upcycling end-of-life solar PV panels into high-value materials, reducing waste and replacing virgin resources

ElecSome has developed Australian technology for upcycling end-of-life solar PV panels, combining mechanical and advanced material recovery to turn solar waste into valuable resources for new Australian manufacturing. The process recovers up to 90–97% of panel materials, including glass, aluminium, copper, silicon and silver.

As solar PV panels reach end of life, managing that waste locally and recovering its high-value critical resources is a growing challenge. ElecSome separates and recovers each panel's materials and converts them into valuable feedstocks, including SolarCrete, a recycled solar-glass aggregate developed for construction materials — giving asset owners a higher-value end-of-life solution while reducing landfill and reliance on virgin resources.

The technology has progressed beyond laboratory development to commercial pilot stage, with an operational processing facility in Kilmany, Victoria, that has demonstrated mechanical processing of up to 5 tonnes an hour for aluminium and glass separation. It has been developed and tested with the University of Melbourne, RMIT and Monash University, and is supported by intellectual property and patents. The next stage is scaling into larger regional processing hubs across Australia.

90–97% panel recovery | **5 t/hr** processing capacity

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

What ElecSome delivers

Recovered glass as a direct replacement for natural sand in construction materials, together with recovered copper, aluminium, silicon and silver.

Address

HQ Unit 3, 67 Naxos Way, Keysborough, Victoria
Kilmany, Victoria · Stapylton, Queensland

Selected clients

Boral · Spark Infrastructure · InfraBuild · OneSteel

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SAMSARA ECO

Recycled plastics and textiles from traditionally unrecyclable waste streams for global brands

Samsara Eco returns plastic and textile waste to its original molecular building blocks and rebuilds it into new materials with no loss of quality, so the same material can directly replace virgin materials and be recycled again and again. It processes waste others cannot, including mixed, dyed and blended products, producing enzymatically recycled nylon that performs just like virgin material and is drop-in ready for existing supply chains.

Brands are moving to circular models for commercial as well as regulatory reasons, but the materials do not exist at scale: less than 1% of textiles are recycled back into textiles, and nylon 6,6 — used in performance sportswear, swimwear and outerwear — has no established commercial recycling route. Samsara Eco's AI-designed enzymes break waste down into monomers that are rebuilt into virgin-identical nylon 6,6, with a low carbon footprint and applications from textiles to automotive parts and electronics.

In four years the company scaled from bench research through pilot and demonstration to its first plant, opened at Jerrabomberra in September 2025. In 2024 it partnered with lululemon to create the world's first enzymatically recycled nylon 6,6 product, and it now holds a 10-year agreement to supply approximately 20% of lululemon's fibre portfolio. Its first commercial nylon 6,6 facility, engineered with KBR to process 20,000 tonnes a year, is scheduled to open in Asia in 2028.

~20% of lululemon fibre (10 yrs)

20,000 t a year facility, 2028 | **A$150M+** raised

What Samsara Eco delivers

Recycled nylon 6,6, supplied by working with partners and their supply chains to swap virgin materials for Samsara Eco's recycled materials, with a long-term vision to expand to other plastics, textiles and materials.

Selected clients

lululemon · LSKD · The LYCRA Company

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

Address

HQ 19 Wolseley Place, Jerrabomberra, New South Wales

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BLOCKTEXX

Textile recycling technology that turns clothing waste into recycled polyester and cellulose

BlockTexx is the first textile recycler in Australia to commercially recover both polyester and cellulose from mixed textile waste. Its technology separates cotton-polyester textiles into two reusable raw materials, helping manufacturers, brands and recycling partners convert textile waste into valuable inputs for new products.

Cotton-polyester blended textiles make up a significant share of the global textile market but are difficult to recycle, so most blended garments are downcycled or sent to landfill, creating disposal costs, resource inefficiencies and growing regulatory risk. BlockTexx's proprietary S.O.F.T.™ (Separation of Fibre Technology) process separates blended fabrics into their original raw materials: PolyTexx® recycled polyester and CellTexx® microcrystalline cellulose, for use in textile, pharmaceutical and agricultural markets.

The technology has progressed from laboratory and pilot scale to commercial-scale operations in Queensland, with capacity to process up to 8,000 tonnes of post-consumer and post-industrial textiles a year. BlockTexx holds Global Recycled Standard certification, won the 2025 Banksia National Sustainability Gold Award, and received a strategic investment from EREMA Group, a global leader in plastics recycling technology.

8,000 t textiles a year capacity | **2** recovered raw materials

What BlockTexx delivers

Technology licensing, plant development partnerships and recycled material supply, giving international customers access to proven fibre-separation technology and to PolyTexx® recycled polyester and CellTexx® cellulose for new manufacturing applications.

Selected clients

Asia Pacific Fibers · Australia Post · Qantas · IKEA · Jetstar · Alsco · Woolworths · Suncorp · Linfox · Downer Group

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing · Waste-to-Value Solutions · Water and Waste

Address

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FUTURE FORGEWORKS

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing · Green Infrastructure · Waste-to-Value Solutions

Address

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Contact

Selena Turner, Chief People and Corporate Affairs Officer
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FUTURE FORGEWORKS

Low-emissions steel mill to produce 365,000 tonnes of rebar a year, cutting emissions by more than 70%

From 2028, Future Forgeworks will manufacture low-emissions reinforcing steel using electric arc furnace technology, sustainable energy and recycled steel as feedstock. Producing up to 365,000 tonnes of rebar a year at Swanbank, Queensland, it will help construction and infrastructure projects significantly reduce embodied carbon without compromising quality, performance, cost or supply reliability.

Construction companies face increasing pressure to reduce embodied carbon while maintaining quality and cost competitiveness, and traditional steelmaking is one of the largest industrial sources of greenhouse gas emissions. Future Forgeworks' rebar will give builders a practical way to cut the embodied carbon of each tonne of rebar used by more than 70%, helping them meet sustainability targets, procurement requirements and net-zero commitments.

The mill will be the first in Australia to use continuous mill technology developed by SMS group, which has been implemented in America, South-East Asia and Europe. The design omits billet reheating to reduce energy consumption and emissions, and is paired with a renewable-powered electric arc furnace and modern quenching. CPB-UGL is the construction partner, and MoUs are in place with Australian fabricators and distributors for up to 70% of offtake.

365,000 t rebar a year | **70%+** emissions per tonne | **2028** first production | **70%** offtake under MoU

What Future Forgeworks will deliver

Low-emissions rebar in straight and compact coil forms across a range of lengths, strengths, ductilities and diameters, from mid-2028,with the mill having provision for a wire rod line in future.



Regain

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

Address

HQ Unit G62, 63–86 Turner Street, Port Melbourne, Victoria
Tomago Smelter, New South Wales

Contact

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REGAIN

Recycling residual materials from aluminium smelting into products that save energy and emissions in cement manufacture

Regain turns hazardous aluminium-smelter waste into a safe, quality-controlled resource for cement manufacture — reducing waste liability for smelters and reducing energy use and emissions in cement production.

Regain provides aluminium smelters with a complete solution: technology to eliminate the key hazards in residual materials, refining to manufacture high-quality HiCAL products, regulatory approvals and an established market for the products with cement manufacturers. HiCAL enables more reactive cement clinker, allowing greater energy savings through a reduced clinker factor.

Regain recovers residual materials and uses its proprietary technology to detoxify and refine them, making them safe to handle and use. The refined material is used to manufacture a homogeneous chemical additive for cement manufacture. The technology is proven, with 25 years of experience and 700,000 tonnes of product used by cement manufacturers.

700,000 t residual material recycled | **25 yrs** proven technology

What Regain delivers

Full-service provision of process plant — technology, engineering, operations and maintenance — to recover and process aluminium-smelter waste materials, together with supply of cement clinker mineralisation product and technical support to make best use of it.



CONSTRUCTAMESH

Reusable scaffold encapsulation mesh, built for reuse not single use, that stops a 60 kg impact

ConstructAmesh closes the biggest gap in scaffold safety mesh: the structural weak point between grid sections where competitor products fail. Its single-layer HDPE design removes that gap while staying lightweight, fire retardant and built for reuse rather than single use.

Standard scaffold mesh has a weak point: a dropped tool or length of rebar that lands between grid sections can pass straight through, exposing workers and the public below to falling-object injury. ConstructAmesh has no secondary grid section, so any object dropped anywhere on the roll is stopped, giving consistent protection across the full surface, not just at structural joins.

The mesh is independently certified to stop a 60 kg impact — double the 30 kg interim AS 1576.7 minimum — and meets the Standard's flammability requirements. Commercially deployed since 2015, it has been in continuous use by Waco Kwikform since September 2016, and a roll retested after more than three years in active field service still met its original certified performance.

60 kg certified impact stopped | **2×** interim standard minimum | **2015** in commercial use since

Sectors

Circular Economy

Key Capabilities

Recycling and Remanufacturing

What ConstructAmesh delivers

Direct roll sales of certified scaffold encapsulation mesh, plus CAM Tough Covers — heavy-duty HDPE covers for trailers and waste bins — sold through Australian and New Zealand distributors with bulk and container-load pricing, and open to new distributor partnerships in other markets.

Selected clients

Waco Kwikform · BlueScope Steel · SRG Global Integrated Services · Melchor

Address

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Contact

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Website: **constructamesh.com**

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VAULTA

Repairable, recyclable batteries for critical infrastructure that stay in service, not in landfill

Vaulta designs and manufactures custom battery systems in Brisbane, engineered from the casing up to be repaired, re-celled and recycled rather than replaced. Its patented no-weld casing opens to individual cells without special tools, where sealed packs must be replaced whole, and its own platform monitors every cell remotely.

Fleet and critical-site operators buy battery packs that are welded, screwed and glued shut. When one cell or connector fails, the whole battery is replaced even though it may still hold 70 to 80 per cent of its capacity, adding cost and downtime and creating a disposal problem. CSIRO projects that Australia's lithium-ion battery waste, growing 20 per cent a year, will exceed 136,000 tonnes by 2036.

With Vaulta, only the failed cell or connector is replaced and the battery returns to service. In testing, repair time fell 52 per cent and 80 per cent of materials were recoverable through standard recycling. Both technologies are at commercial stage, with paying domestic and export customers since FY2022/23 and revenue growing from around $280,000 to around $1 million in two years, including about $425,000 from a New Zealand road safety program.

52% repair time | **80%** materials recoverable | **~$1M** revenue | **~$425K** NZ export contract

Sectors

Clean Energy

Key Capabilities

Storage and Firming · Recycling and Remanufacturing

What Vaulta delivers

Custom battery systems built in Brisbane, licensing of its patented designs and manufacturing processes, a cell-level monitoring subscription, and technical services including design, integration, commissioning, maintenance and repair, with a US licensing channel under development.

Address

HQ 53 Holland Street, Northgate, Brisbane, Queensland

Contact

Dominic Spooner, CEO
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LinkedIn: **linkedin.com/company/vaulta**

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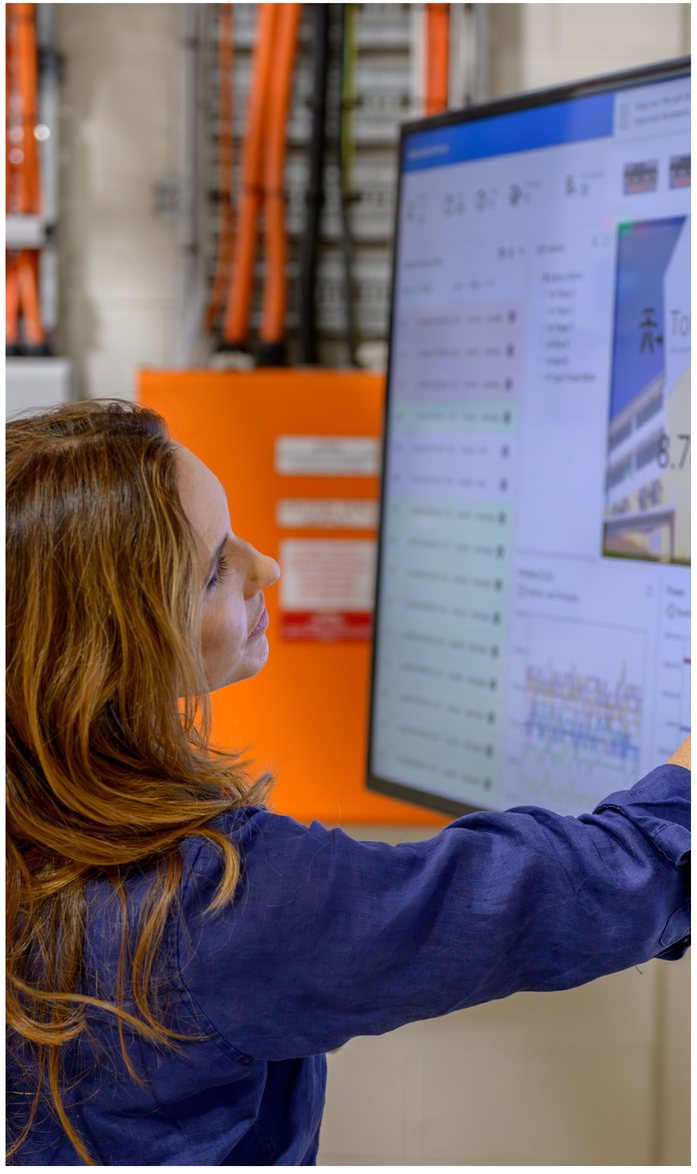
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CSIRO Newcastle Stored Energy Integration Facility 2.0

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Australian Innovation in Action

Discover Australian companies turning innovation into commercial outcomes across the green economy. These short case studies highlight the ingenuity, expertise and global ambition driving sustainable industry transformation, showcasing solutions that are helping industries reduce emissions, improve resource efficiency and build more sustainable futures.

From advanced recycling and electrified heavy freight to digitally verified clean cooking and genomics for resilient agriculture, these stories show how Australian businesses are turning innovation into practical solutions for climate and environmental challenges, and delivering value at scale.



ATEC: Clean Cooking, Measurable Impact



Janus Electric: Recharging Heavy Transport



Diversity Arrays Technology: Genomics Transforming Agriculture



Samsara Eco: Rethinking Plastic Recycling

About Austrade

Connect with Australia

The Australian Trade and Investment Commission (Austrade) is the Australian Government's trade and investment promotion agency. Working across international markets, Austrade connects buyers, investors and partners with Australian businesses and capabilities.

The Green Economy Directory highlights Australian organisations contributing to the global transition to a lower-emissions economy and supports new trade, investment and collaboration opportunities.

For enquiries relating to the Australian Green Economy Directory, Australian capabilities, or opportunities to engage with Australian companies featured in this publication:

Website: **international.austrade.gov.au/go-green**

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Great Ocean Road, Victoria, Australia

Acknowledgement of Country

In the spirit of reconciliation we acknowledge the Traditional Custodians of Country throughout Australia and their connections to land, sea and community.

We pay our respect to their elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples.

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