

The logo features the word "AMPCONTROL" in a bold, white, italicized sans-serif font. A registered trademark symbol (®) is positioned to the upper right of the text. An orange graphic element, consisting of two curved lines that form a partial loop, is positioned behind the text, with one line curving above and the other below. Below the logo is a solid white horizontal line.

**AMPCONTROL**®

---



# Why Ampcontrol?

Ampcontrol is Australia's largest privately-owned electrical engineering company leading advanced global manufacturing of award-winning innovations, products, solutions and service to the resources, infrastructure and energy sectors.

Drawing on our extensive research, development, engineering and manufacturing capabilities, Ampcontrol is solving the world's most complex problems by developing solutions that help businesses reach net zero targets.

We operate an integrated model that delivers high value solutions and services that help support optimum operational performance, safety and efficiency. Drawing on extensive engineering and manufacturing capabilities, Ampcontrol's customers are able to leverage a sophisticated internal network of products, capabilities and service support all via one single source.

From the custom design, manufacture and delivery of power and control distribution equipment such as substations and switchrooms through to fit-for-purpose engineered applications engineering and field service support. Ampcontrol prides itself on our unique approach that puts safety and solving customer problems at the very core of what we do.

We understand the operational challenges faced by our customers, which is why we have some of the most experienced technical staff in their fields working across our global operations to ensure we can solve these challenges with engineering driven solutions.



# Core Competencies



Advanced Manufacturing



Gas Detection, Monitoring  
& Communications  
Systems



Digital Solutions



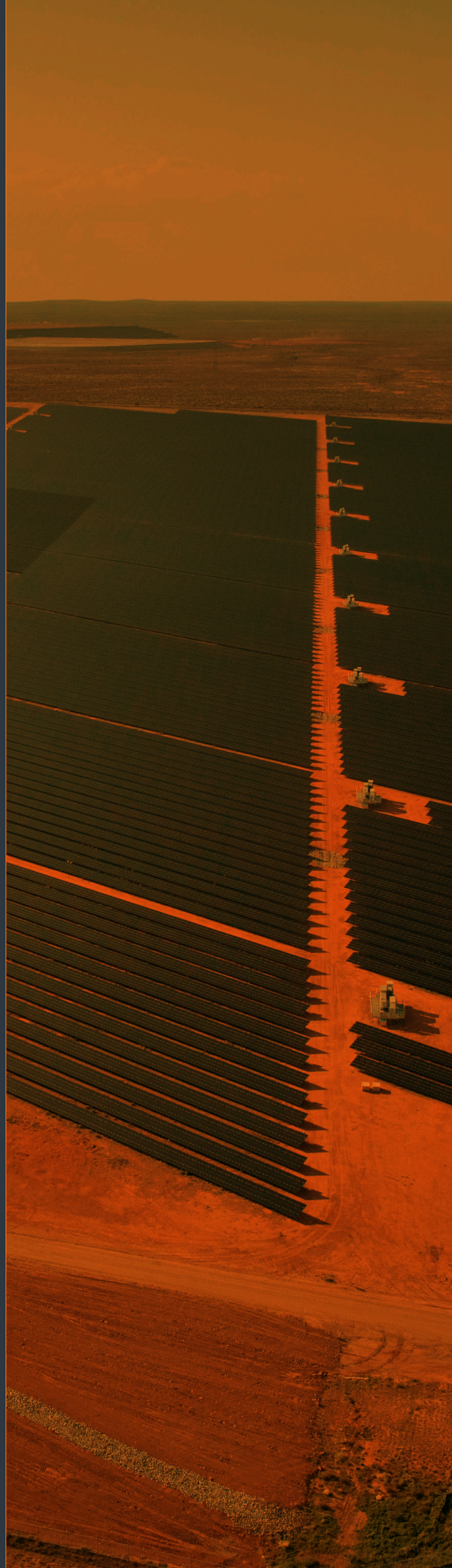
HV & Asset  
Management Services



Power Generation &  
Reticulation



Cable Supply,  
Services & Solutions



# Global Reach & Local Presence

Our global network spans eight countries and more than 25 locations to give you access to world's best technology and expertise. Ampcontrol is also dedicated to offering the absolute best products and services to the Australian market. We are located in key regional centres to provide service and support, when and where our customers need us, ensuring local assistance and fast turnaround.

Visit [ampcontrolgroup.com](http://ampcontrolgroup.com) for a complete listing of Ampcontrol operations across the world and around Australia.





# Advanced Manufacturing

Technology is central to Ampcontrol's business model. We leverage our engineering expertise and investment in research and development to deliver market leading products and engineered-to-order solutions.

Ampcontrol takes a holistic approach to how we operate. We apply a high level of technology and expertise to everything we do and add value every step of the way along the value chain.

We've been the recipient of multiple engineering accolades including National Engineers Australia Excellence Awards and Good Design Awards, supplier awards from Joy Global and the NSW Mining Council, and several competitive research grants from ACARP and ARENA.

Many of Ampcontrol's technology solutions have established themselves as industry benchmarks, and we constantly innovate to add value for our customers.

We offer unique access to experienced R&D engineers who combine contemporary and fundamental knowledge with extensive expertise in a range of fields. We can offer product proof of concept experimentation, prototyping, pilot builds and pre commercialisation activities, along with scientific consultancy and technical engineering services to our customers.

# Gas Detection, Monitoring & Communications Systems

We understand the legislative and operational requirements to ensure environmental conditions are safely managed. Using our engineering expertise along with our own technology, we design systems that help deliver safer operating environments.

## Gas Detection and Environmental Monitoring

We are a full lifecycle solution provider of gas, flame and environmental monitoring instruments and systems. Our member company Austech manufactures a range of products that include air quality monitors, industrial gas detectors, hazardous area gas detectors and a suite of specialist controllers.

## Communication Systems

Backed by our decades of experience designing integrated communications systems, we can support a range of industrial mining and infrastructure applications to ensure vital communication can happen during both daily operations and in emergencies.

## Networking

To support our Automation and technology integration services we developed H3RO, a flexible reticulated fibre optic distribution network for industrial applications. This plug and play network solution is simple, portable, robust and cost effective.



# Power & Services

Ampcontrol has extensive experience in the design and delivery of HV infrastructure such as switchrooms, substations, switchyards and transformers across various sectors.

Our safe and flexible power distribution systems are highly reliable and designed specifically for demanding environments.

## Transformers

Ampcontrol's Australian designed and manufactured oil and dry type transformers are known for their quality and customised for purpose designs. We continue to support our customers throughout the transformer lifecycle with a range of engineering, testing and maintenance services.

## Switchrooms

Ampcontrol has supplied modular electrical switchrooms to a variety of industries and environments. We work closely with our customers to develop solutions that are unique, safe and compliant for their applications.

Our cost-effective modular electrical switchrooms are manufactured to meet Australian standards and can have up to a 100-year design life. They are fabricated in Australia to meet structural demands, site requirements, fire ratings, environmental considerations and transportation requirements across a variety of industries and environments.

## Switchyards

Ampcontrol's modular switchyards are a proven and viable alternative to building concrete, brick and mortar substations. These modular substations are designed, manufactured, assembled, wired and operationally tested in our





# Field Services

We offer high voltage (HV), onsite and engineering support to ensure compliant management of your electrical infrastructure and electronic systems. From HV compliance audits and safety management plans to repairs, maintenance, upgrades and testing, we have the experience and accreditations to ensure safe and compliant completion of your electrical infrastructure projects and management of your electrical assets.

## Field Services

Our onsite service teams are located in key regions to provide scheduled and on-call support when and where it's needed 24 hours a day, seven days a week, and are backed by our strategically positioned regional service centres and in-house engineering resources.

## Cable Supply, Services & Solutions

Ampcontrol provides comprehensive locally based cable services to ensure the smooth, uninterrupted supply of HV electricity via cables supplied, serviced or terminated from our cable workshops in Queensland and New South Wales. workshop before being shipped as a packaged system ready for assembly on site. This minimises site works and offers significant cost savings.

# Stand Alone Power Systems (SPS)

Ampcontrol are delivering sustainable power solutions for remote and distributed applications.

We design and manufacture off-grid and stand-alone power systems (SPS) that cater for differing load and infrastructure requirements. Our SPS provide a self-sufficient, continuous and reliable power supply to an isolated consumption source, utilising an array of technology including solar PV panels, inverters and battery storage.

## Solar Qube™

Solar Qube™ was borne out of the need to address mounting concerns regarding ageing power distribution infrastructure. Delivered by Boundary Power, a partnership between Ampcontrol and Horizon Power, Solar Qube™ is a self-sufficient power generation unit that incorporates solar photovoltaic panels, inverter, battery storage technology and a back-up generator. Rapidly deployable in under 90 minutes, Solar Qube™ is a utility grade solution incorporating the latest in design and technology, to offer scalability, growth and transport efficiency.

## Mine Site Ready Stand Alone Power Systems

Our modular, portable, mine site ready stand alone power systems use a combination of solar arrays, battery bank and optional inverter (for AC applications). They can be easily deployed in remote applications where reliable power is required for communications and control.

## Remote Unmanned Diesel Fuel Station

Supplying fuel in WA's remote Pilbra Region was improved through the development of a solar powered retail outlet with 24-hour access to diesel.

## Large Scale Renewable Power Solutions

Backed by our extensive experience designing, manufacturing and commissioning large-scale electrical infrastructure solutions, Ampcontrol works in partnerships with leaders in solar, battery, diesel and alternative energy technology to offer system components or complete electrical packages for renewable power projects.



# Electrification

Ampcontrol are partnering and collaborating with industry leaders from business, industry and education to develop electrification solutions that support the transition to a net-zero carbon environment.

There is a growing, immediate industry demand for low emissions technology. By partnering and collaborating with industry leaders from business, industry and education we are able to develop and deliver innovative technology solutions to our customers, that support decarbonisation.

Our Intrinsically Safe Battery Electric Vehicle (BEV) DRIFTEX, for use in underground mining, was born from our customer's strategic focus on decarbonisation and industry regulation improvements around reduced diesel emissions.

DRIFTEX was developed in collaboration with our joint venture with The University of Newcastle, ResTech, where a team of dedicated R&D engineers worked together to create a more environmentally conscious solution for the mining industry.

## Electric Vehicle Charging Solutions

Ampcontrol's underground and surface mine DC fast chargers are powered by Tritium.

Our compliant next generation DC chargers are durable low maintenance units designed to the latest safety standards.

Both the underground and surface mine chargers are liquid cooled, IP rated and 3rd party certified.



# DRIFTEX

Introducing our Battery Electric Vehicle (BEV) DRIFTEX. Purpose designed for underground coal mine sites, DRIFTEX is built for tough environments.

Offered as a conversion package to DriftRunner personnel carrier vehicles, DRIFTEX enables sites to meet regulation targets in reducing diesel particulates and pollution, running costs and environmental noise.

Engineered for fast charging, DRIFTEX charging protocols are vehicle agnostic, with base models charge flat to full in 40 minutes, and have fast charging capability of as little as 10 minutes.

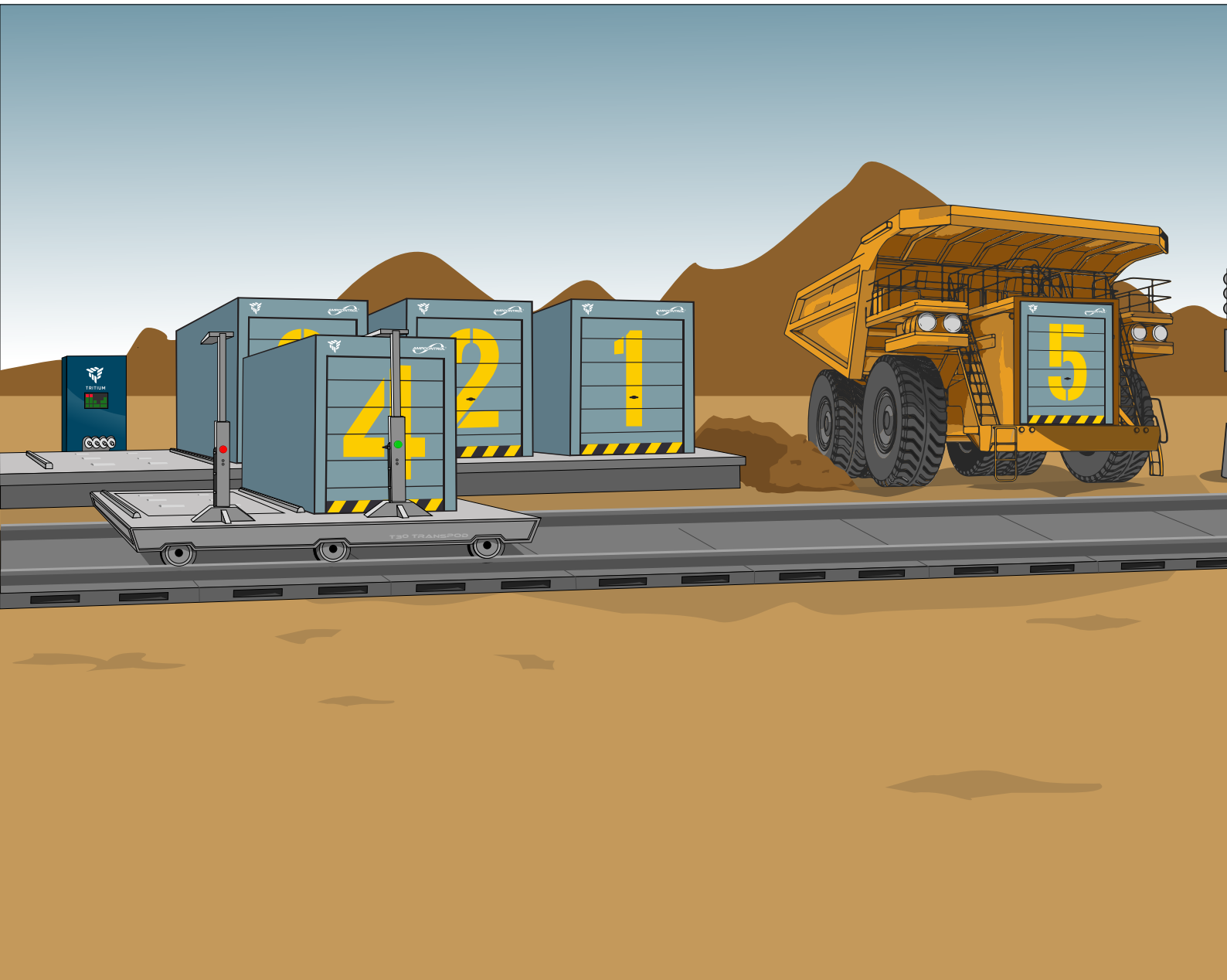




# Charge On Innovation Challenge

Ampcontrol and Tritum's end-to-end haul truck battery swap solution has been selected along with eleven other technology innovators as winners of the Charge On Challenge. Our end-to-end solution is able to swap batteries in 90 seconds through a fully automated, relocatable, scalable and cell agnostic solution.

The global challenge, launched by BHP, Rio Tinto and Vale aims to accelerate the commercialisation of effective solutions for charging large electric haul trucks, while simultaneously demonstrating there is an emerging market for these solutions in mining.





# Hybrid Diesel-Electric Boat

In a collaboration with The University of Newcastle and Steber International we've developed a hybrid diesel-electric boat prototype.

The hybrid diesel/electric propulsion system allows the boat to be power efficient and quiet, while being significantly more emission friendly without suffering any loss of cruising range. The application of batteries and an electric motor facilitates a reduction in the size of diesel engines required while maintaining the same, or higher, power ratings for the vessel.

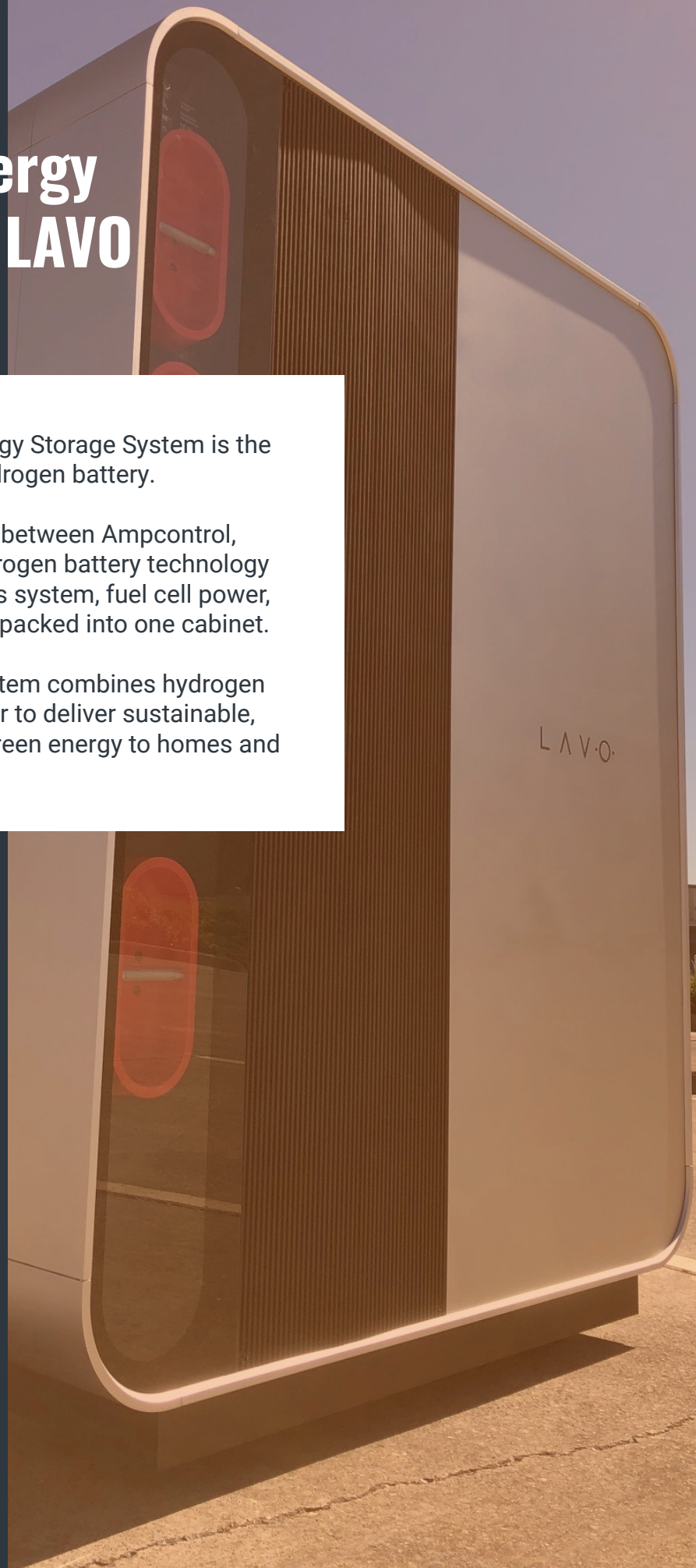
# Hydrogen Energy Storage with LAVO



The LAVO Hydrogen Energy Storage System is the world's first domestic hydrogen battery.

Developed in partnership between Ampcontrol, Varley and LAVO, the hydrogen battery technology consists of an electrolysis system, fuel cell power, and hydrogen storage array packed into one cabinet.

The integrated hybrid system combines hydrogen and existing rooftop solar to deliver sustainable, reliable, and renewable green energy to homes and businesses.



# Gilghi

Water supply in remote Australia is getting harder due to prolonged drought and aging infrastructure. At the same time Australia aspires to higher standards and better outcomes through commitments to United Nations Sustainable Development Guidelines on water and Closing the Gap for Indigenous equality.

To this end, Gilghi hosts a range of community and health benefits beyond simply supplying clean water using advance filtering technology and is a breakthrough water solution. The Gilghi unit is engineered as a standard or typical unit that allows for reconfiguration and scalability. With a range of configurations and a plug and play commissioning process, the Gilghi is a simple solution to a variety of applications.

The Gillen Bore water treatment unit is sponsored by the Northern Territory Government through the Department of Local Government, Housing and Community Development.



Scalable output.  
Base unit 28kL per day



Multiple power options



Delivered complete  
to site



Remote monitoring



Filtration, sterilisation,  
reverse osmosis



Customisable  
and scalable





# Our Partnerships and Member Companies

We leverage our member companies and key industry partnerships to develop and deliver innovative technology solutions for a net-zero carbon environment.



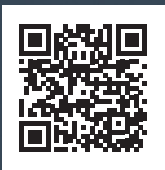
Ampcontrol are proud members of the Electric Mine Consortium (EMC); a growing group of highly regarded mining and service companies driven to produce zero-emissions products for their customers.

Ampcontrol is playing our part developing solutions to the growing, immediate demand for low emissions technology and see EMC as an emerging key vehicle for the decarbonisation of the mining industry.



Established in 2004 as a collaboration between the University of Newcastle and Ampcontrol, ResTech is a Research Service Provider (RSP no. 41278) which spans both academia and industry by providing clients with commercially viable solutions and intellectual capital.

ResTech can also assist customers in utilising R&D tax concessions and offsets which are offered in support of research and development in Australia.



1300 267 373

[ampcontrolgroup.com](http://ampcontrolgroup.com)

