



# **UON SMART™** **ENERGY SOLUTIONS**

**ENERGY FOR EVERY FUTURE**  
[uon.com.au](http://uon.com.au)





# SOLUTIONS - Innovation

UON has a proud history of innovation, developing and delivering integrated off-grid power solutions.

Creating complete turnkey solutions, UON has built its products specifically for operation in the harsh Australian environment.

- **UON SMART™** products provide renewable and decarbonising solutions for mining operations and remote industry, including agriculture.
- Developed to manage renewable energy sources, UON's hybrid energy solution has changed fossil fuel to being only a back-up.
- Power solutions are applicable to both operational equipment and built facilities, including mine camps, workshops and administration services.
- UON can help reduce capital and operational costs, while assisting in decarbonising operations.
- Remote monitoring further optimises operation, reducing physical inspections and required maintenance.

- **POWER SECURITY**
- **CLEAN ENERGY**
- **REDUCED MAINTENANCE**
- **DECARBONISATION**
- **CO<sub>2</sub> SAVINGS**
- **CAPEX & OPEX SAVINGS**

Solar array installation and expansion at Carosue Dam



ENERGY FOR EVERY FUTURE

that creates green energy

**The name is a promise.  
We will keep you **U ON**,  
we will keep you  
operational.**





# SCALABLE - suits change

Renewable energy solutions developed by UON enable clients to increase their energy efficiency and realise operational expenditure savings, without risking energy reliability.

**UON SMART™** energy solutions are Scalable, Modular, Automated, Renewable and Temperature-controlled – delivering flexible and efficient energy solutions to WA resources companies.

Renewable solutions can be added to existing energy supplies to supplement power and support a transition to greater renewable energy utilisation.

A hybrid energy solution of a photovoltaic array and battery storage can be coupled with UON's Generator Motor Controller (GMC), changing remote operations only needing fossil fuel as a back-up.

Mining operations vary dramatically across the mine's life and UON has a redeployable solar solution. This means as operations move, so can the renewable power.

Flexibility also means the size of the renewable inputs can be expanded.

UON Hybrid Solution for pumping applications, installed at Rio Tinto Hope Downs 4

# UON SMART™



Scalable



Modular



Automated



Renewable



Temp-controlled



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# BATTERY, SOLAR & WIND

Harnessing the power of the sun and wind is now a viable option for powering mining operations and remote industry.

Decarbonising operations with clean energy, UON can fully integrate solar, wind and battery technology at scale.

Built for mining environments, transitioning to renewable technology does not mean sacrificing reliability.

Scalable technology supports clients' investment and operations schedules to deliver the individual solutions needed.

## POWER OUTPUT CONFIGURATIONS

### OUTPUT RANGE

- 5kW to 500MW

### OPERATING TEMPERATURES

- +5°C to +50°C

### TYPICAL BATTERY CAPACITIES

- 0.5C to 2C

### REDEPLOYABLE EQUIPMENT

### SUITED APPLICATIONS

- Dewatering and Borefields
- Power Stations



- Mining - Non-Production Infrastructure and Camps
- Hybrid Power



# DESIGN - quality support

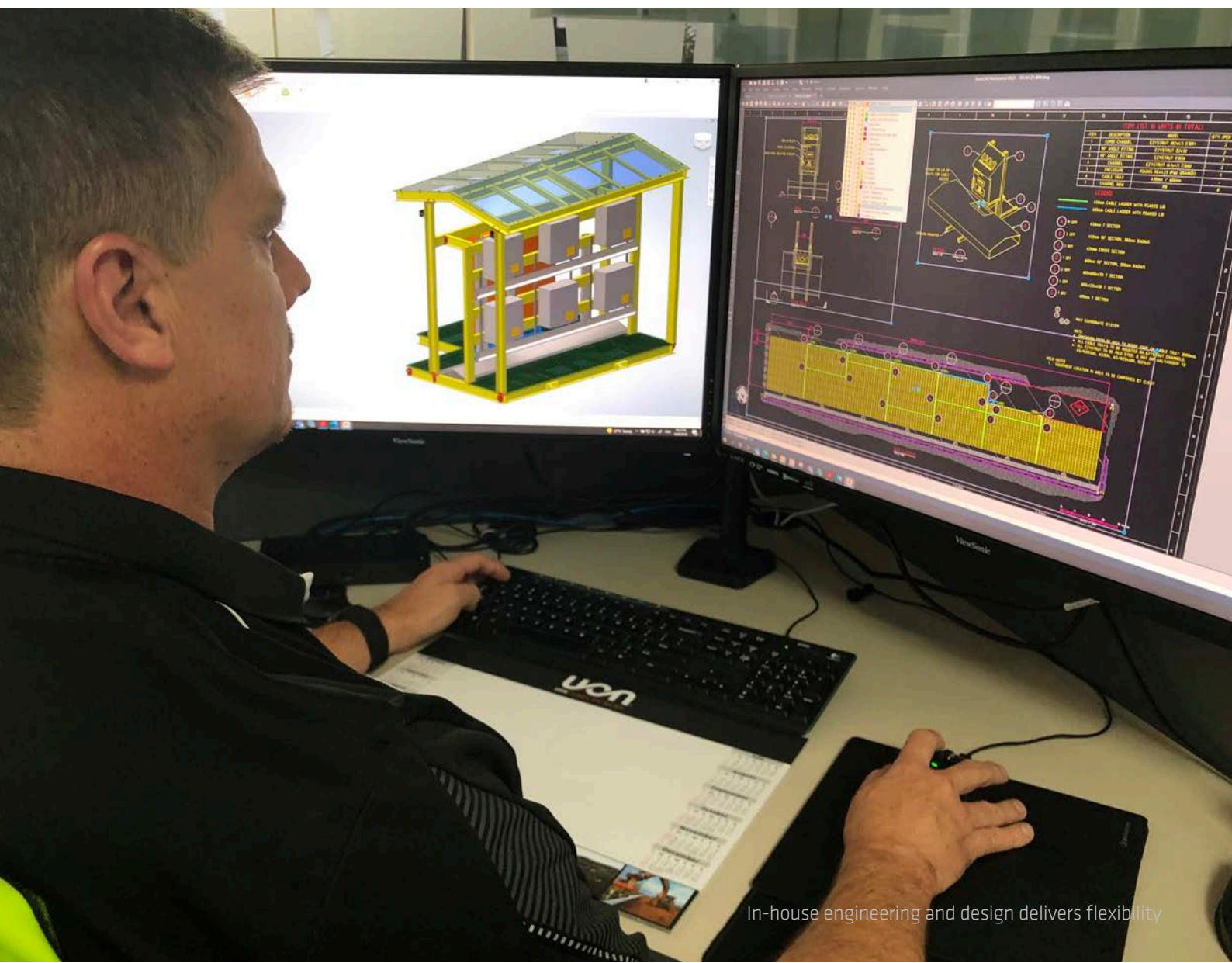
UON's modelling design and engineering capabilities deliver an extensive range of leading products to meet the specific needs of operating in Australia's remote and harsh environments.

With remote operational control systems and monitoring, UON creates innovative solutions that improve the safety, operational flexibility, reliability and performance of installed equipment, UON develops the best solutions to support clients.

Investing in the people and technology means UON can support customers across all areas of a project, manufacturing to specific needs and delivering to the highest standards.

Local manufacturing and assembly facilities enables UON to manage supply chain requirements to support timely project delivery.

UON also combines the efficiency of providing product uniformity with ability to incorporate the specific needs of a project's operational needs.







# RESEARCH - Fresh ideas

UON's commitment to innovation includes a dedicated Research and Development team, innovating and testing new solutions.

A range of patented technologies deliver customers with solutions that are fit-for-purpose, relevant to their needs and proven in the field.

Founded in 1998, developing innovative solutions have always been at the heart of the company - merging hardware and software to create energy.

UON's solutions are manufactured, monitored, maintained and supported end-to-end.





**UON** is a Western Australian integrated energy company providing turnkey solutions to the mining and resources sector and beyond.

**UON**  
ENERGY FOR EVERY FUTURE

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