envirada

CAPABILITY STATEMENT

Mining & Mineral Processing

AUSTRALIAN MADE

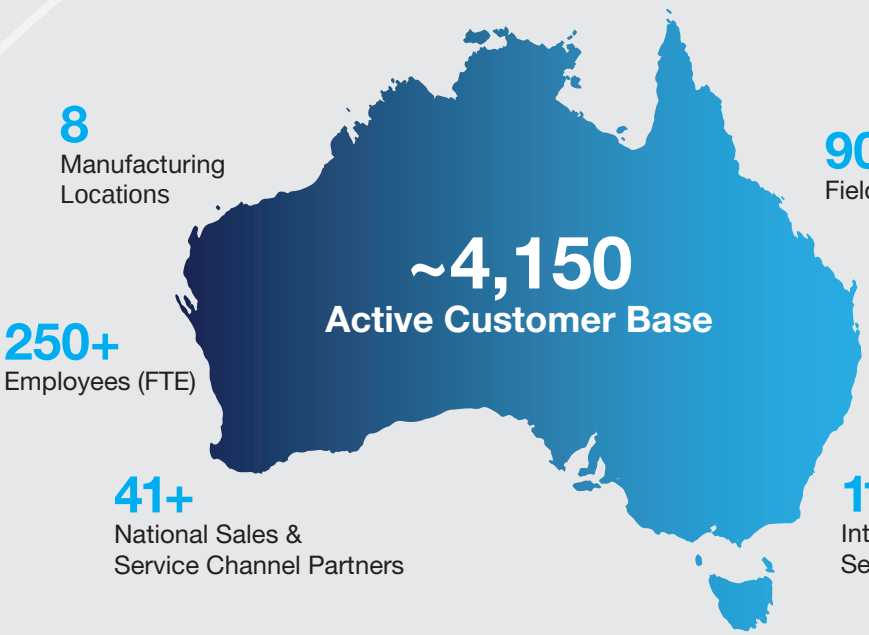
Licence ID: 15075

Measure Monitor Master

Who are we?

Envirada is dedicated to minimising environmental impacts for Miners, Contractors, Governments and Corporates, while also improving industry productivity and community resources. We do this using our market leading hardware and technology platforms to engage directly with local customers and globally via our channel partner network.

Through our end to end solutions, Envirada provides the hardware, monitoring, connectivity and smarts that enable effective water management and environmental stewardship.



Envirada Industry Leading Brands

AQX Solutions

ELPRO Technologies

electrical systems engineering

water dynamics Irrigating Australia

AQUAMONIX

pump engineers

AUSTRALIAN MADE

Measure

FLOW METERING & MANAGEMENT
Resource management is a core concern for any business of which water, we believe, is the most crucial resource to all mining and related or processing operations. Our Flowmeters allow you to diagnose upstream and downstream, by collating live flow data, which in turn can diagnose pressure, supply, leaks and overall efficacy throughout operational infrastructure.

BOREFIELD & AQUIFER MANAGEMENT
We believe that Consistent reliable access to water is critical to any remote operation. Managing access to this resource, coupled with live data and historical data compilation, increases accuracy of forecasting and increases efficacy of bore extraction. In turn this allows for long term viability of any remote operation, camp, or processing facility.

ESE CORE PLATFORM
Sometimes quantitative data isn't enough. You actually need to see what's going on. This can be done simply, quickly and economically through the eseCore. The eseCore dashboard uses simple widgets, big colour coded gauges, trend lines, and status blocks for instant comprehension.

Monitor

ENVIRONMENTAL MONITORING
WQI, soil pH, soil composition and weather condition monitoring supports the global mining commitment to environmental preservation and containment of inorganic chemicals and or waste products. Weather stations, pHsensors(water), pH probes (soil) and other sensors combine to provide an overview of overall mine site health and conditioning. Diagnosis of leaks, hazardous spills and reducing risk is at our core. We uphold an operational commitment to preserve the natural environment.

WATER STORAGE
Collecting data in the field is one thing but making it available to downstream departments who use it to make decisions, then data becomes valuable. We bring data to a desktop, tablet or mobile phone. Our automation technology, monitors any sensor and takes action to protect and control infrastructure

COMPLIANCE & REPORTING
Using our cloud based time-series databases, we can customise reports, alarms and alerts to save you time and maximise your ability to respond to the dynamic nature of the water balance on your Mine, site or processing facility.

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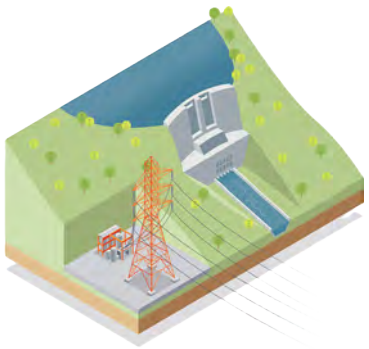

Master

SCADA
Our renowned Gatekeeper control system is capable of delivering water to up to, and beyond, 1000 distribution destinations on any remote mine or processing site. It manages upstream and downstream pipelines, storage tanks, valves, pump sites, tailings and processing infrastructure and , bore field assets.Our core platforms of choice being Ci-tech and GeoSCADA. Perth based team of engineers to support you.

PUMP SYSTEMS
Pump Engineers is long established premium supplier of pumping equipment across many industries, mining, and chemical processing. Pump Engineers endeavours to provide the most effective, smart and energy efficient solution for all pumps and situations. This is achieved by partnering with local and international brands that share the same values. Repair, Rewind & Refurbishment services are available.

RADIO & COMMUNICATIONS
At ELPRO Technologies, we prioritise our customers and their challenges, delivering a range of innovative, high-end custom-engineered products that provide market-leading solutions for both traditional and emerging industrial wireless I/O markets. Our products are distributed globally throughout our partner network and brings over 40 years of experience and success in providing secure industrial communications across various applications and industries, including water, wastewater, oil and gas, mining, environmental, utilities and industrial automation, to name a few.

NEOFLOW
NeoFlow, the combination of a flow meter, transmitter and Neo data0-logger powered by eseCore, connects to all communications protocols and methodologies where an active CAT-M1 connection is available. Additionally it can be connected to radio infrastructure. All powered by the eseCore online dashboard. This versatile product brings your instrumentation, mechanical equipment and plant assets into the IoT age.

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AQUAMONIX
Measure Monitor Master

Flowmeters & Transmitters

Aquamonix's Emflux series of electro-magnetic flow meters are designed and manufactured in Australia by an Australian owned company, purpose built for the Australian climate & conditions. Our team of Australian based engineers, technical support and field service technicians, are on hand to diagnose, customise and/or commission our technology.

Aquamonix has over 50 years of continuous operation, aproven track record and an installation base of that comprises of more than 40,000 individual sites.

Aquamonix will tailor a flow meter to suit your requirements and personalised specification to resolve your flow monitoring concerns.

- DN50 to DN1200
- Flow rates <5000 L/s
- Custom linings, flange connections and electrode material
- Linings - 3mm Hard Rubber, 6mm Rubber, 12mmRubber, Polyurethane and Basalt
- Electrodes - SS316/316L, Hastelloy C276, TungstenTipped(W-Tip)
- Flange Pattern - AS2129 Table D/E, AS4087, DIN1092-1, ASME B16.5 (ANSI150/300/600), AWWA, Custom
- Applications range from Fe-watering, Bore-field, Tailings, Process infrastructure, Potable water, Raw water, Thickeners & Clarifiers, Pump stations, Electrical and Instrumentation (E&I).

Upstream, Downstream, Mid-stream? Need to measure it? Aquamonix has you covered...Measure, Monitor, Master.

electrical systems engineering

Control Panels

ESE specialises in the following automated utility systems: programmable logic controllers (PLCs) and human machine interfaces (HMIs) to help you to increase your output without compromising on quality and industry safety requirements – and at the same time, decrease cost and be in accordance with Australian Standards. The best method of achieving this is with a PLC. Electrical Systems Engineering designs, builds and installs turn-key solar power and pump solutions throughout Australia.With a reputation as one of the country's best custom control panel manufacturers.
Features include but not limited to:

- Soft starting
- Avoiding "no flow" or "shut-off" conditions
- Protection against dry-running due to a motor that has stopped because of power-speed ratios falling below a predetermined value
- Warnings against minimum flow and tripping associated with sub-optimal flow rates
- Best Efficiency Point (BEP) calculation
- An inertia-secure start function that allows oneto loosen a blocked shaft with alternating torque
- Automatic initiation of cleaning sequences that dislodge any material that is clogged
- Stage-on and stage-off functions for differentiating load conditions in multiple pump installations

Radio & Communications

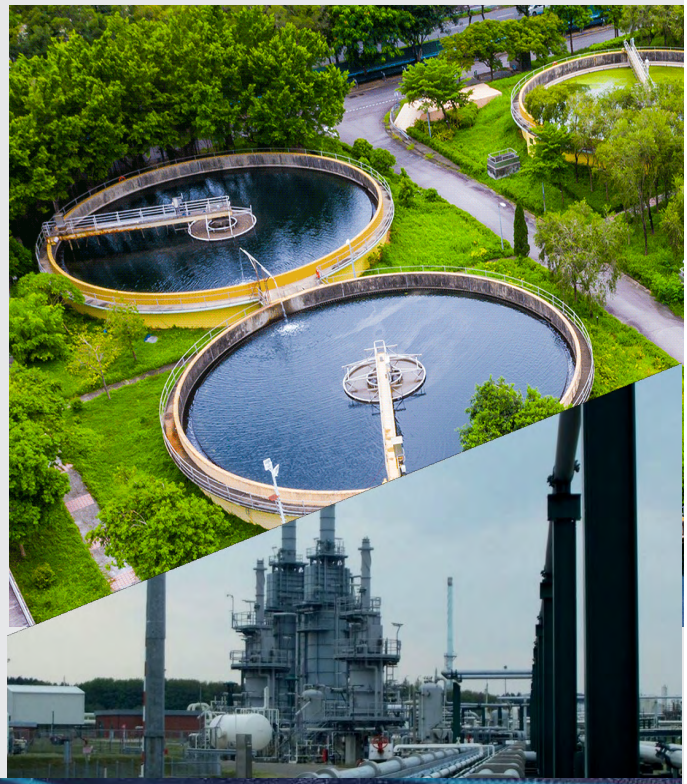
ELPRO Technologies is a global leader in industrial wireless I/O connectivity with full engineering design, manufacture, supply and support of secure and flexible wireless solutions.

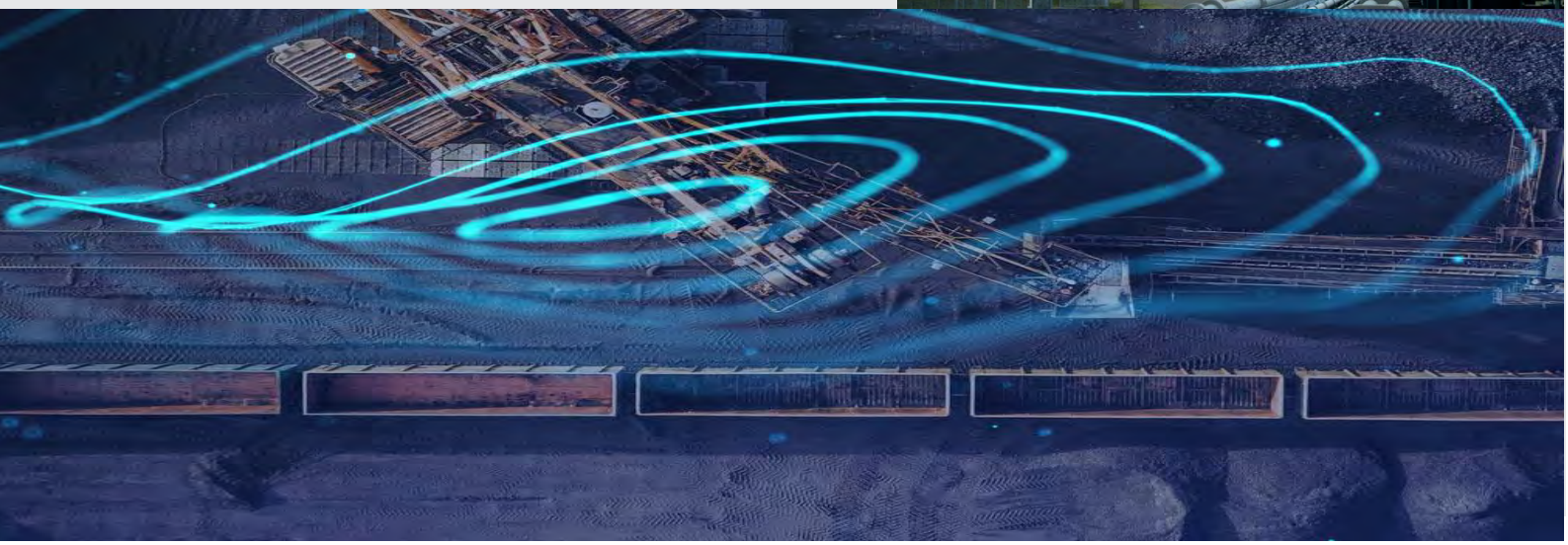
We have over 35 years of experience and success in providing secure industrial communications.

ELPRO products allow customers to gain control of their assets and improve operations with scalable solutions from basic point-to-point, or meshing, to large scale infrastructure deployments. They cover all applications from the sensor to the control room.

We have a clear focus on the customer and solving their problems by delivering a range of innovative, high-end custom engineered products that provide best in market, leading edge solutions into traditional and emerging industrial wireless I/O markets.

ELPRO Technologies solutions and products are distributed in over 180 countries.





AQUAMONIX
Measure Monitor Master

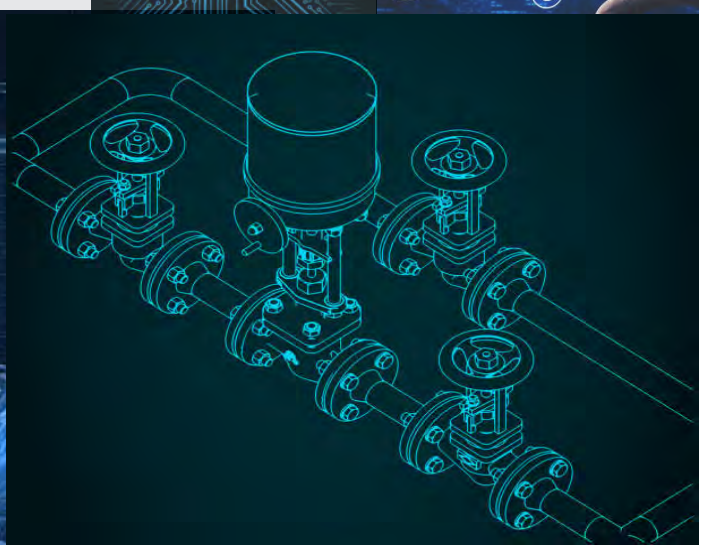
SCADA

The Aquamonix Gatekeeper Central is a powerful PC or cloud based management system that provides advanced process management, mechanical control and/or autonomy, compliance monitoring, cost reporting and user defined water delivery schedules.

GateKeeper Central is a highly developed centralized control platform with cloud based management system techniques that networks to the Aquamonix range of products.

The Gatekeeper FlowManager module system automatically coordinates and controls the operation of equipment and instrumentation, ie: valves, pumps, blowers, within the existing SMP infrastructure. Supported by a cloud based management system to ensure on-time delivery at required location, improving overall system efficiency. General Applications:

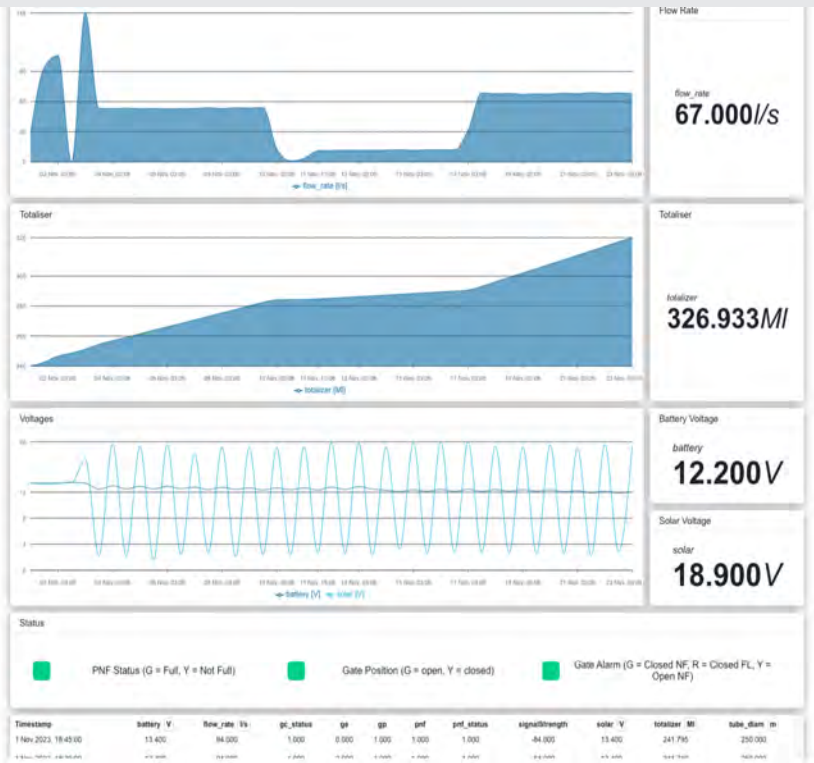
- Flow Reporting
- Dam Level v Capacity Monitoring
- Delivery Volume Monitoring
- Pressure or Level derived controls
- Compliance Reporting
- Event & Alarm Logs



Seamless Data-logging

Staying connected to remote equipment is essential. Our Neo family of IoT devices empowers users regardless of technical background to monitor and control pumps, sensors, and valves from anywhere. Using simple, intuitive interfaces, you can:

- Remotely start and stop pumps to manage water without trekking to the field;Monitor pressure in pipelines, tanks, or bores;
- Track soil moisture to optimise irrigation schedules and conserve resources;
- Measure and log flow rates for pumps to ensure accurate usage data;
- Extend range with optional high-gain antennas for reliable connectivity in remote locations;
- Receive real-time alerts or generate reports.



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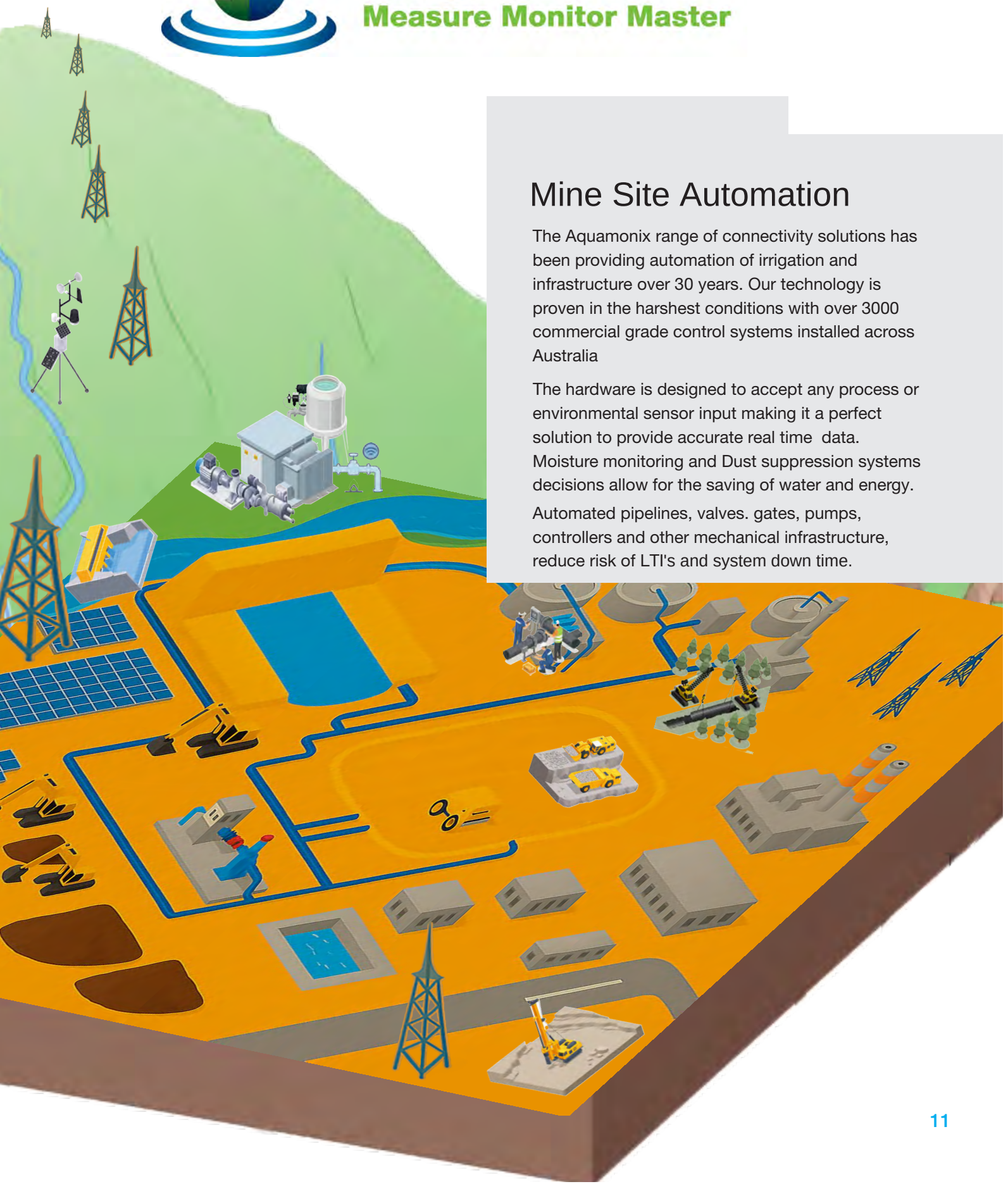

Mine Site Automation

The Aquamonix range of connectivity solutions has been providing automation of irrigation and infrastructure over 30 years. Our technology is proven in the harshest conditions with over 3000 commercial grade control systems installed across Australia

The hardware is designed to accept any process or environmental sensor input making it a perfect solution to provide accurate real time data. Moisture monitoring and Dust suppression systems decisions allow for the saving of water and energy.

Automated pipelines, valves. gates, pumps, controllers and other mechanical infrastructure, reduce risk of LTI's and system down time.

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pump engineers

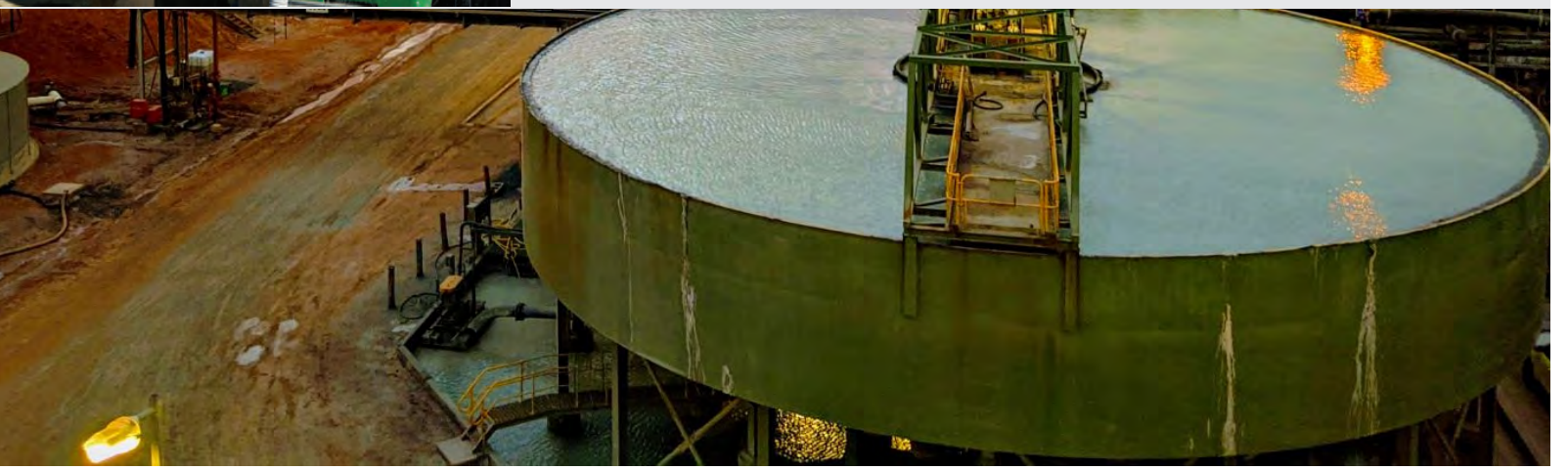
Pump Systems

Reliable pumping systems ensure water is available
on demand mineral extraction & processing needs. Pump Engineers supplies, services and repairs premium pumping equipment across multiple industries.

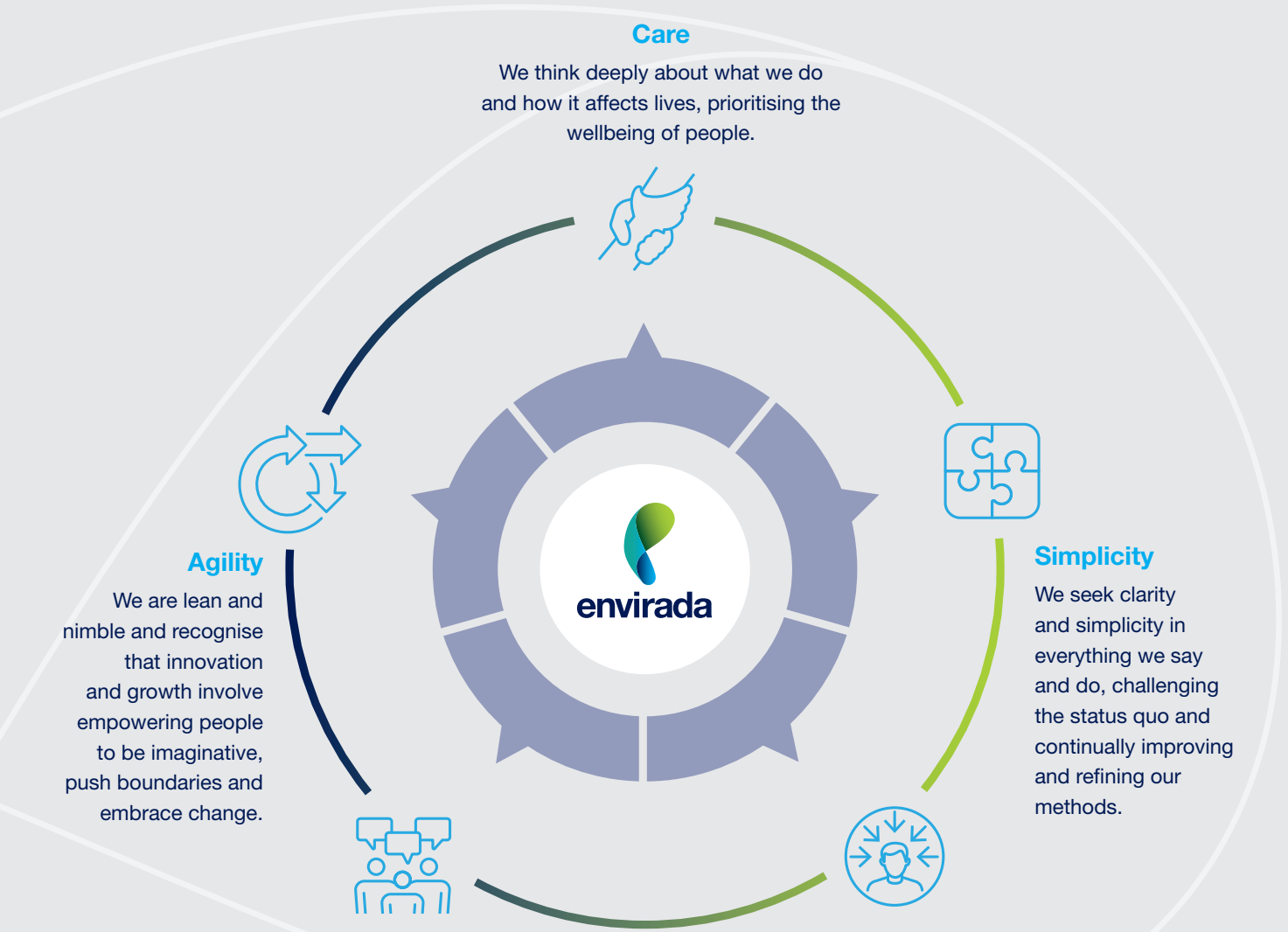
Pump Engineers' service division offer a wide range of services to ensure the efficient and reliable
operation of pumping equipment.

These services include:

- Pump selection and sizing
- Pump installation and commissioning
- Troubleshooting and repairs
- Performance monitoring & Data Analysis
- Efficiency Upgrades
- Impeller Refurbishment
- Pump rewinding
- Mechanical Seal Replacement



Our Values



Care

We think deeply about what we do and how it affects lives, prioritising the wellbeing of people.

Simplicity

We seek clarity and simplicity in everything we say and do, challenging the status quo and continually improving and refining our methods.

Customer Focus

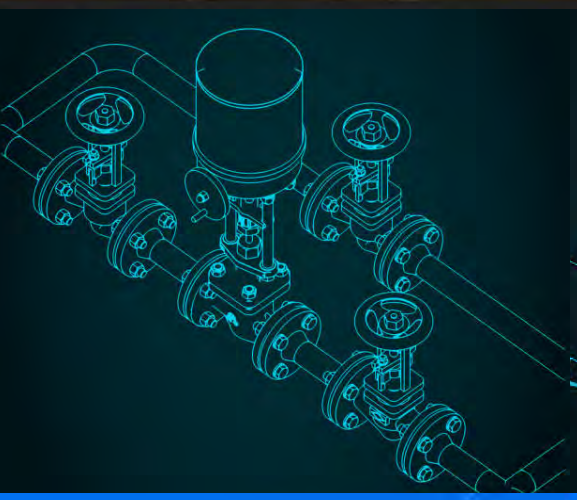
We value our customers as partners and approach each opportunity from the customer's perspective.

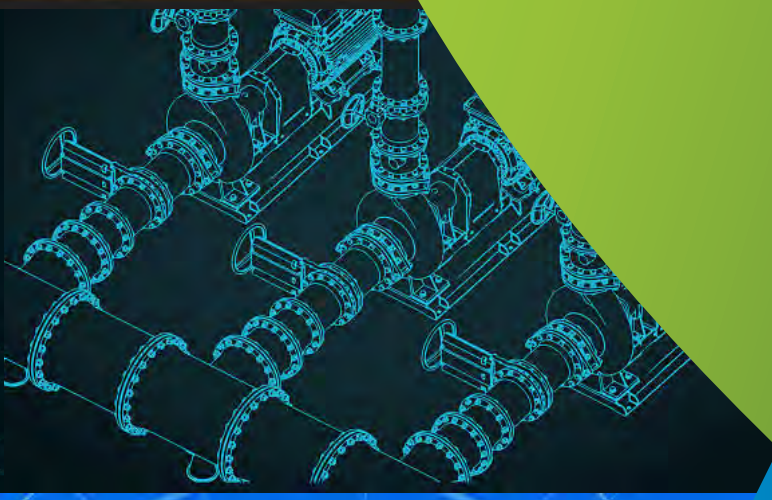
Collaboration

We encourage people to participate in open dialogue, give feedback and to inspire each other and foster a culture of collaboration.

Agility

We are lean and nimble and recognise that innovation and growth involve empowering people to be imaginative, push boundaries and embrace change.





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CONTACT US

Telephone: 1300 797 246 | Email: envirada@envirada.com | envirada.com