YOKOGAWA

Co-innovating tomorrow™

Industry Insights Resources

Yokogawa Australia & New Zealand

Yokogawa Australia & New Zealand

With a presence in the region for over thirty years, we have been improving the lives of everyday Australians and New Zealanders through the provision of high-quality products, software, engineering and service excellence.

Our reputation for quality, safety, reliability and locally based engineering expertise has provided the Resources sector with the type of surety required to underpin a successful business in an environment presented with widespread challenges. Our dedication to building a safe and sustainable future through emissions monitoring, raw materials reduction and process optimisation has also been rewarded with global recognition.

Our resilient transformation approach to improving your operations not only utilises our fit for purpose technology but delves into the best-in-class expertise which is the foundation for some of the region's most successful projects.

Where fluctuating commodity prices, new mineral demands and declining ore grades present an ongoing challenge, Yokogawa's ability to co-develop solutions to the most complex of challenges consistently delivers agile and purpose-built solutions. Environmental responsiveness, demographic change, safety, security and more recently Covid-19 are challenging the way Resources companies operate.

> *We're inherently resilient and proud that our business is founded on providing service and safety 24 hours a day, 7 days a week, 365 day a year*
>
> **Russell Palmer**
> **Managing Director**
> **Yokogawa Australia & New Zealand**

Australian minerals output supported by Yokogawa products & services

70% Gold
80% Copper
95% Nickel
80% Zinc
85% Lead
80% Cobalt
70% Lithium
90% Rare Earths
70% Iron Ore

Local capability

At Yokogawa our people are not only our strength, but your assurance of the highest levels of engineering and support. With over 2000 years of accumulated service within the regional organisation our emphasis in on personal and professional development. Not only do we build and retain the best minds, we also develop next generation and graduate engineers in parallel to ensure knowledge retention within the business.

For over 30 years, Yokogawa have been recognised as providing the highest standard of engineering and service within the region, complemented by market leading product quality and reliability. Our Australian Technical Excellence group further enhance our offering with specialist technology and application expertise, providing highly innovative solutions to even the most challenging of issues

Our 24/7, 365 approach to supporting your business ensures you get the most out of your investment, while realising ongoing growth potential. Supporting Resources clients from regionally based offices, including local stock, allows us to build an additional layer of resilience into your business model creating the type of surety which allows you to focus on other aspects of your process.

- Engineering & Design
- Project Management
- Agile Project Execution
- Consulting Services
- Lifecycle Services
- Training & Development
- Local Stockholding

> *Taking an Agile approach to implementing the project provided the ability to respond quickly to change or improvement requests, which is extremely important in a dynamic start-up environment.*

YOKOGAWA

WIDE RANGING PROJECT DELIVERY CAPACITY with >$2 MILLION LOCAL STOCK

SERVICE & SUPPORT STAFF IN EVERY STATE

SUSTAINABILITY

ENVIRONMENTAL | **SOCIAL** | **ECONOMIC**

- Achieve **net-zero emissions**
- Ensure **well-being**
- Make transition to **circular economy by 2050**

RESILIENCE BUILDING

7 REASONS TO CHANGE

- **Performance**
- **Agility**
- **People**
- **Technology**
- **Trust**
- **Resilience**
- **99.999999% Reliability**

95% CUSTOMER SATISFACTION

OVER 105 YEARS CONTINUOUS INNOVATION

OUR EMPLOYEES

Over **300** employees in Aus/NZ

23 Languages

Over **2,000** years cumulative service

60 Post Grads
Over **200** Under Grads

OUR REGION

KEY:

- **OFFICE LOCATIONS**
- **REGIONS SERVED**
  Including the Pacific Island nations of Papua New Guinea, Solomon Islands, New Caledonia, Vanuatu, Samoa, Tonga & Fiji.

Gruyere Gold Project

Local Presence, Industry Expertise

Establishing new mine and processing facilities at one of the largest undeveloped gold deposits in outback Australia just over five years after discovery requires careful planning and support from industry experienced partners. It was with this goal in mind that joint venture partners Gold Road Resources and Gold Fields Ltd selected Yokogawa's CENTUM DCS as the control system of choice for their key Gruyere Gold project, with Yokogawa's long track record of similar applications in the region being crucial.

Discovered by Gold Road Resources in October 2013 on the South Dorothy Hills Trend, 25 kilometres north-east of the company's original Yamarna Belt discovery, Central Bore. The Gruyere Gold project, in Western Australia was fast tracked to ensure its immense potential was quickly realised. The site consists of a large-scale open pit mine feeding a 7.5 million tonnes per annum processing plant, which produced almost 322,000 ounces of gold in 2023.

The control system was engineered out of Yokogawa's Belmont office in Western Australia, using a team of experienced engineers who have been involved in some of Australia's largest Gold mines over the last 20+ years. A crucial element of the control system design was to build a highly reliable and adaptable solution which could scale up as the mine grew. Providing the capacity for a high level of data insight was also important to allow the team at Gruyere the opportunity to utilise the advanced levels of diagnostic information built into the system as standard. This will be especially important where changes in ore grade are concerned, where the process needs to adapt to lower grades or harder rock.

Maximum reliability mining

> *It's bullet-proof. Means I don't have to worry about the control system and can spend my time working on other areas of the process which need my attention.*

As with all industrial processes, measurable mine performance in underpinned by throughput. The more efficiently you can run your plant, the more you can produce.

Yet the harsh operating conditions experienced in mining processes has a detrimental affect on the equipment which defines your plant. Too often, equipment which is not fit for purpose become the source of a Mine Manager's angst. On the other hand, equipment designed to work in such conditions, combined with mining specific engineering expertise provides the certainty desired for reliable operations.

Yokogawa products are widely recognised for quality and reliability. Operating in some of the most remote and harsh processes, they frequently last well beyond their design life. Industry hardened and designed to meet the most demanding criteria, they underpin exceptional operational effectiveness.

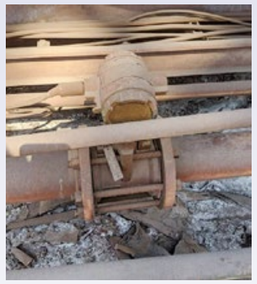
SEVEN 9'S RELIABILITY

Yokogawa released the world's first Distributed Control System in 1975, CENTUM. Since that date, many in the Resources sector can attribute their ongoing reliability statistics to CENTUM. Now in it's the ninth generation of innovation, the CENTUM series is synonymous with benchmark high availability (99.99999%), lifetime backward compatibility and tight integration between the controller and human machine interface. With over 27,000 installations across 100 countries these features alone have been providing a high degree of re-assurance of zero unplanned downtime, ease of migration and clear visibility and control.

CENTUM 50th ANNIVERSARY

ROBUST IN THE FACE OF THE HARSHEST OF CONDITIONS

Yokogawa field instruments are designed to deliver precision measurement even in the harshest operating conditions. Our range includes field wireless, pressure, flow, temperature, liquid and gas analysers. Since developing our first magnetic flowmeter for industrial use in 1953, Yokogawa has provided a wide range of quality measurement solutions for the manufacturing and process industries. All our products are designed to the highest levels of accuracy, stability, reliability and safety standards. Our deep understanding of process instrumentation and reputation for quality and reliability provides a surety of measurement accuracy which can underpin your plant performance goals.



Evolution Mining

Zero unplanned downtime

The unprecedented reliability and availability of the system ensured zero unplanned downtime, since the site was commissioned over 10 years ago. This allowed our site engineers to focus on continuously enhancing the system and ensure the maximum can be extracted from the process plant. Which directly contributed to the year-on-year increase in production.

As one of Australia's largest gold producers, Evolution Mining has five wholly owned mines in Australia and Canada producing over 716,700 ounces in FY24. Of those mines, the Cowal gold mine located in West Wyalong is a flagship site producing around 312,644 ounces of low-cost gold per year. Commissioned in 2006, the Cowal gold processing plant consists of crushing, two stage grinding, sulphide flotation, regrind and Carbon In Leach (CIL) recovery.

At the Cowal Gold site, the complete gold processing plant from the primary crusher through to the gold refinery is controlled and monitored using distributed control system technology, specifically Yokogawa's CENTUM VP. With multiple high availability CPU pairs processing almost 5000 hardwired IO points plus a multitude of peripheral field devices and switchgear integrated through numerous protocols, the plant is fully visualised via CENTUM's Human Interface Stations for complete insight into operations.

Engineered and supported from the Yokogawa Sydney office, the performance of the plant is underpinned by the impressive reliability of the products deployed, which continues to allow Evolution Mining to focus on growing and optimising their business still further.

Maximising technological resources

Commitment to new ways of working and technologies which address both demographic change and human resource constraints is critical. Doing so using a technology platform designed to meet the needs of miners today and in the future requires experience and foresight.

Yokogawa provides greater visibility of processes while actively capturing operator best practice to enhance situational awareness. Through our agile CENTUM VP and CI Server solutions we maximise technological resources, linking inputs from traditional measurement devices to digital assets for a whole of mine operational view.

> *We needed a platform which not only provided us with accurate and reliable real-time operational information, but one which was simple to use and highly intuitive. Although our operations and maintenance team are highly skilled, running lean requires tools to support their activities in the most efficient way.*

Industrial Automation to Industrial Autonomy (IA2IA)

Yokogawa foresees the technological future as the transition from Industrial Automation to Industrial Autonomy. Currently, all Resources organisations are at some stage of automated operations and looking to technology to provide that next level boost to productivity, profitability, reliability, safety, and environmental compliance.

Autonomous operations can be defined as assets and operations that have human like learning and adaptive capabilities that allow them to respond without operator interaction to situations within a secure bounded domain that are not pre-programmed or anticipated in the design and is responsible for all safety-critical functions. In a fully autonomous operation (no human intervention required), the cognitive system performs all aspects of the operation. The transition from industrial automation to industrial autonomy requires sensing and a digital infrastructure that spans the entire operation and integrates data, smart devices at the edge, bulletproof hardware and software to deliver the required level of flexibility, adaptability, resilience, and eventually, autonomy.

Yokogawa is leading the way for a future in which the Resources sector can safely transition from industrial automation to industrial autonomy through a range of smart manufacturing solutions and digital consultancy services that will help digital transformation journeys. Recognised and rewarded on a global stage for our many firsts in this area, Yokogawa provide the means to using technology to drive process excellence.

ENTERPRISE OPERATIONS MANAGEMENT

CI (Collaborative Information) Server provides an integrated operations environment that supports wide-area communications and allows assets to be monitored and controlled from a central location. Incorporating multiple assets across a wide geographical area while integrating a multitude of third-party monitoring and reporting packages is standard practice for CI Server.

Configuring and expanding CI Server using its enterprise operations capability significantly reduces engineering time while avoiding tag replication. Graphical interfaces and engineering modules can automatically deploy changes made on a single server to all CI Servers on the network. Changes are downloaded via an encrypted link which is also used to share tag and other system information. The outcome is a single, high speed, highly intuitive operational and performance management solution. CI Server is the ideal platform to facilitate cognitive learning and embracing best practice principles from experienced team members, while presenting the latest technology to staff.

> *Usually you find operations centres managed from a technology or operations perspective, but we recognise that the visibility and control gives us a crucial commercial and strategic advantage. We are able to respond faster to changes, accommodate demand fluctuations, improve the integration of new assets, and ultimately make better business decisions*

Securing your critical infrastructure

The process of digital transformation creates notable growth and optimisation opportunities for industrial organisations. With it comes with the potential of increased cyber security risk as hostile actors look to identify and exploit holes in system protection.

To address the ongoing and evolving cyber threats to OT environments, Yokogawa have replaced solution thinking with service thinking. We actively support operators over the plant's entire life cycle, continually working on improvements in close partnership. Not only do we offer a range of cyber security products and services, but our portfolio continually evolves to ensure current and next generation threats are addressed rapidly.

Our consultancy services provide access to a highly qualified and experienced Technical Excellence team who can undertake plant, or companywide assessments. This allows you to address challenges individually or holistically as required providing safeguards in line with overall IT and OT directives and best practice.

- Multi Factor Authentication
- Cyber Incident Recovery
- Deep Asset Inventory & Monitoring
- OT Security Operations Centre (SoC)
- Managed Security Services
- Security Incident and Event Monitoring (SIEM)
- Security Orchestration, Automation and Response (SOAR)

CYBER RISK ASSESSMENT

Protecting your organisation from cyber threats is essential in today's digital age. The IEC 62443 cyber security standard provides a comprehensive framework for assessing and mitigating risks in industrial automation and control systems (IACS).

Our Cyber Risk Assessment service, based on the IEC 62443 standard, offers a comprehensive approach to identify, analyse, and prioritise cyber risks to your organisation's operational environments. Our team of OT cyber security engineers will conduct a thorough review of your system's security posture, evaluate vulnerabilities, and assess the potential impact of cyber-attacks on your operations.

With our Cyber Risk Assessment service, you will have a clear understanding of your system's vulnerabilities and be equipped to make informed decisions about mitigating cyber risks. We provide you with a detailed report outlining the risks, potential impact and recommended mitigation strategies, which will enable you to prioritise your cybersecurity efforts and allocate resources effectively.

Our Cyber Risk Assessment service is tailored to meet the unique needs of your operations. We work closely with you to develop a customised plan that aligns with your business objectives and risk tolerance. Our approach ensures that you have a practical roadmap for improving your cybersecurity posture and reducing the risk of cyber-attack.

A cyber security risk assessment includes detailed reviews of:

- Physical security
- Network security
- Host based security
- Access and use control
- Disaster recovery
- Organisational security
- Asset identification
- Threat identification
- Vulnerability assessment
- Risk analysis
- Risk mitigation strategy

Maximising asset health

Organisations are increasingly seeking innovative solutions to enhance productivity, ensure safety, and drive sustainability. Yokogawa is at the forefront of this transformation, leveraging cutting-edge technologies such as Artificial Intelligence (AI) and Generative AI (GenAI) to unlock new possibilities in asset management and operational excellence.

Increasing mine output is often defined by expansion. Alternative thinking around improving the performance of existing assets also creates opportunity, although only when viewed holistically. Doing more with what you have through deployment of effective asset management tools opens the door to greater productivity and associated profitability.

Yokogawa's asset health performance solution deploys critical aspects of the Total Productive Maintenance methodology for proactive and preventive techniques designed to improve equipment reliability and overall production efficiency.

- Equipment failure: Prevention of equipment downtime or loss of functionality
- Process failure: Prevention of plant shutdown due to changes in raw material or physical properties of process materials, operational errors, or other disturbances
- Transition losses: Prevention of problems during start-up, shutdown, and switchovers in plant processes
- Idle time: Prevention of abnormalities or failures that result in process slow-downs or under-performance

Automation of routine tasks and enhanced process control with AI also free up scarce human skills and resources to focus on more strategic activities, allowing organisations to do more with less, while ensuring operational continuity and performance.

Asset & Operations Management (AOM)

Yokogawa's Asset & Operations Management (AOM) is a no-code platform that empowers industrial businesses to optimise operations through real-time data, AI, and digital twin technology. Its features include predictive maintenance, process optimisation, and automation, while integrating Generative AI and Large Language Models (LLM) for advanced knowledge management. With real-time digital twins, users can monitor, simulate, and optimise processes, improving asset performance and efficiency.

PREDICTIVE MAINTENANCE & ASSET OPTIMISATION

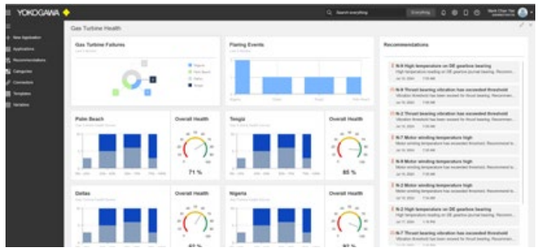
AOM's AI-driven predictive maintenance tools analyse equipment performance to forecast potential failures. This minimises downtime, reduces maintenance costs, and extends the lifespan of critical assets.

REAL-TIME PROCESS OPTIMISATION

With AI and GenAI capabilities, AOM enables real-time adjustments to process parameters, optimising production efficiency. This results in reduced energy consumption, lower waste, and maximised throughput with fewer resources.

ENHANCED DECISION SUPPORT

AOM provides operators with event intelligence and actionable insights and recommendations by analysing historical and real-time data. This enhances decision-making, reduces operational risks, and improves overall system performance. AOM integrates GenAI and LLMs to process vast amounts of technical documentation and historical data, providing contextualised responses and insights and allows operator interaction with the system in natural language. This improves knowledge accessibility, accelerates troubleshooting, and empowers operators to make faster, informed decisions.



DIGITAL TWIN INTEGRATION

AOM's digital twin technology creates virtual models of physical assets, allowing for real-time monitoring and simulation. This enables operators to test and optimise processes virtually before applying changes in the physical environment, minimising risks and operational costs.

AUTOMATION OF ROUTINE TASKS

By leveraging AI, AOM automates routine tasks such as data entry and process monitoring. This frees up skilled workers to focus on higher-value activities, improving operational efficiency and workforce productivity.

Yokogawa Cloud

Yokogawa Cloud is a secure, scalable platform designed to enhance industrial operations by integrating data, analytics, and AI-driven insights in real time. With Yokogawa Cloud, businesses can connect and monitor assets from anywhere, streamlining decision-making and optimising performance across operations.

The platform offers advanced capabilities such as predictive maintenance, process optimisation, and remote monitoring, all powered by cloud-based intelligence that enables data-driven decisions. By centralising and analysing data in the cloud, Yokogawa Cloud provides greater operational visibility, reduces downtime, and helps organisations respond swiftly to changing conditions.

Designed with security and scalability in mind, Yokogawa Cloud supports digital transformation initiatives, allowing organisations to modernise their processes and achieve operational excellence. Several of Yokogawa's applications such as AOM can be hosted in Yokogawa Cloud.

Examples for methods of data ingestion into the cloud platform include:

- Edge Systems - hardware or software devices (such as the e-RT3) controller, gateways, and servers that provide data buffering, computation, monitoring, and control functions near to the field.
- IIoT network integration for smart sensing technologies such as Sushi Sensor where equipment data monitoring is crucial to plant performance.
- Cloud to cloud connection via API - Yokogawa Cloud is ready to connect to cloud data sources (e.g. weather data, IoT data) and client business system (e.g. SAP Hana)
- Data analysis and interpretation to provide insightful operational improvements such as; Pump degradation and performance optimisation; Granular Activated Carbon (GAC) filter optimisation; Leak detection and acceleration rate; Reduction in fouling of aeration elements.

E-RT3 EDGE CONTROLLER

The e-RT3 solution from Yokogawa is a new module for the FA-M3 PLC, an open-source Linux based controller with direct backplane access to the I/O modules. FA-M3 with e-RT3 creates the perfect platform to develop custom edge applications, build micro databases, perform machine learning analytics, and reduce your system decision time. FA-M3 is an ultra-high-speed PLC with basic instructions performed in nano seconds. The flexibility offered by this controller enables users to not only create conventional control logic, but also support custom applications allowing you to apply machine learning analytics to field equipment at the edge, operating at speeds cloud services cannot hope to match. These analytical tools can work to optimise asset performance, monitor health, assist in emissions monitoring, and effectively manage energy usage.

SUSHI SENSOR

Sushi Sensor is a wireless IIoT solution that monitors the trend of equipment condition. Multiple factors affect the performance and life of plant equipment, to which Sushi Sensor provides valuable insights

- Mechanical deterioration (shock and vibration from rotary machines)
- Thermal degradation (conduction and radiation from heat sources)
- Environmental degradation (environmental conditions such as corrosive gas and dust, and climate conditions such as desert and extreme cold)

Sushi Sensor can be deployed in the field to measure vibration, temperature and pressure of equipment which may be a concern. It has numerous features which makes installation and maintenance simple and effective, communicating over long distances using the internationally recognised LoRaWAN protocol.

DISTRIBUTED TEMPERATURE SENSING

Yokogawa's fibre-optic distributed temperature sensing system (DTSX) provides a compact and low power solution for extended temperature and fire sensing requirements. DTSX provides integrated automation connectivity with DCS, PLC, SCADA and field instruments, offering high speed and accurate measurement for up to 50kms. Data can be analysed locally or in the cloud, for detailed temperature profiling providing insights which can be turned into actionable outcomes.

DTSX has a wide range of applications for the Resources sector including conveyor friction monitoring, high voltage cable temperature monitoring, pipeline leak detection, ventilation and mine shaft temperature monitoring and many others. The flexibility, speed and reliability of DTSX provides cost effective insights into many previously hard to measure aspects of the process improving operational performance and safety.

Decarbonisation

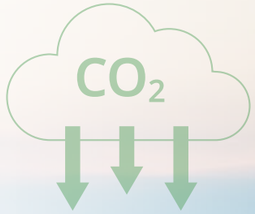
Yokogawa is dedicated to leading the journey toward a decarbonised future by delivering innovative solutions that help industries measure, reduce, and manage their carbon footprint, optimise energy efficiency, and implement sustainable practices. Recognising decarbonisation as one of the greatest challenges of our time, Yokogawa is committed to supporting industries as they face growing pressure to meet ambitious climate targets. Our advanced technologies transform sustainability from a complex challenge into a profitable, achievable reality.

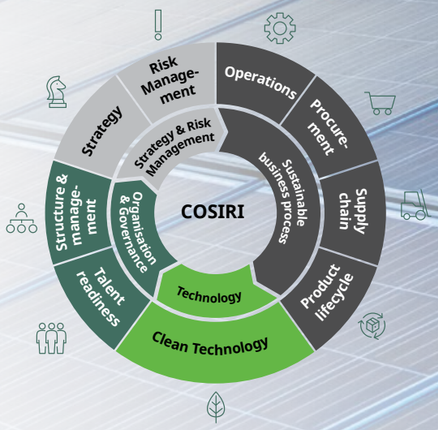
With a comprehensive portfolio of solutions, Yokogawa empowers organisations to make meaningful progress in decarbonisation. This process starts with establishing a baseline and conducting an initial assessment through our Consumer Sustainability Industry Readiness Index (COSIRI) evaluations, guiding businesses on the initial steps of their sustainability journey. Using smart monitoring tools and process optimisation technologies, we enable precise measurement and efficiency improvements at every stage. Our green technologies, including renewable monitoring and control systems, further facilitate the transition by supporting the replacement of carbon-intensive energy sources with low or zero-carbon alternatives.

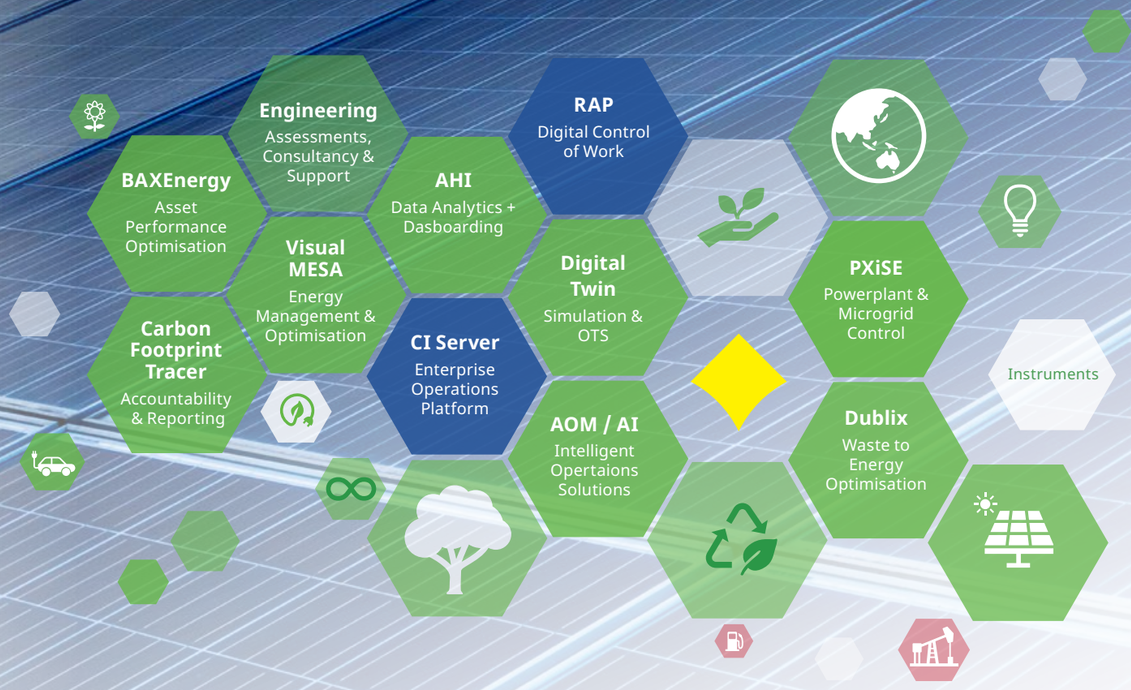
The final phase of the decarbonisation journey focuses on transparent reporting, compliance, and the ability to capitalise on sustainability efforts. Effective accountability transforms these initiatives into competitive advantages, enhancing both business performance and environmental impact. At Yokogawa, we believe that with the right tools and strategies, sustainability is not just a goal but a catalyst for growth and innovation.

Visual MESA – Real-time Monitoring and Optimisation for Reducing and Reporting Carbon Footprint

Visual MESA® GHG Emissions Management software is certified emissions reporting that gathers and filters data, runs a model of energy sources, calculates the corresponding emissions, and optimises alternative scenarios to reduce energy consumption and emissions to meet sustainability targets. It provides actionable recommendations for operations.







Renewables energy management

PXiSE – Linking & optimising grid operations

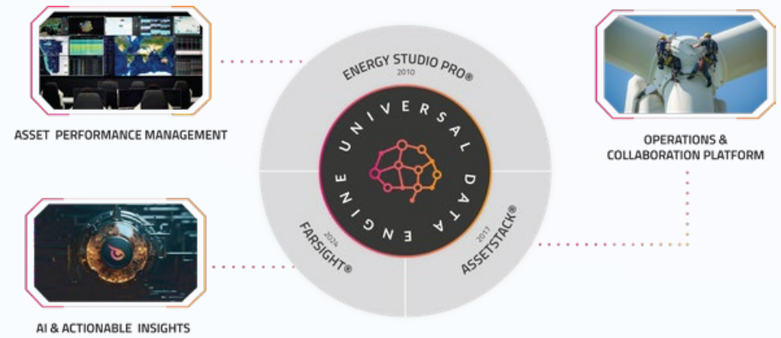
PXiSE (pronounced 'pice') solutions from Yokogawa provide next generation grid control technology. PXiSE Microgrid and Powerplant controllers adopt a renewable first approach enabling the grid of the future with 100% renewables. The advanced high speed controls unlocks the potential of distributed generation to improve reliability and increase renewable energy output while ensuring system balance and power quality. With decades of utility management, field engineering and software development skills, our grid control solution solves today's problems and creates a technology roadmap for the future.

PXiSE's Active Control Technology (ACT) is a real-time control solution that leverages innovative patents to maximise the efficiency and production of energy generation from solar, wind and energy storage to deliver advanced control functionality and economic optimisation in real time. Combined with the PXiSE DER Optimisation & Coordination (DOC) algorithms the entire solution provides a continuous 24 hour rolling optimised output schedule to maximise the renewable potential and increase the longevity of energy storage. The combined solution independently balances real and reactive power and efficiently dispatches the resources for resiliency, power quality, and economic benefit. It provides energy shifting, and ancillary services in grid connected mode and can support microgrid islanding where resilience is the primary objective

- One platform, many solutions
- Maintains consistent power quality
- Optimises for site economics
- Eliminates need to overbuy assets, like batteries, to hedge against interruptions
- Decreases reliance on fossil fuels
- Mitigates intermittency of unreliable energy sources
- Maintains seamless power delivery, even in the event of main grid outage
- Increase hosting capacity of renewables

A Yokogawa Company
PXiSE Energy Solutions

	Renewable Power Plant Controller	Hybrid Microgrid Controller
PRODUCT	Controls for large-scale transmission assets	Controls for co-located distributed energy resources
END USERS	• **Developers** • **Large asset owners** • **Storage + PV/Wind**	• **Utilities** • **Retailers** • **Communities** • **Large campuses (commercial, industrial, defense, government** • **Mining & Remote Communitites**



BAXEnergy – Transforming data into profitable insights

BAXEnergy is a leading provider of innovative software solutions tailored to the renewable energy sector, offering advanced platforms for the visualisation, analysis, and optimisation of cross-technology renewable energy power plants. By utilising a unified interface and focusing on a Key Performance Indicator (KPI)-first approach, BAXEnergy helps maximise operational efficiencies and overall value. Their solutions are designed to streamline performance across various renewable energy technologies, enabling operators to enhance asset management, reduce operational costs, and boost plant productivity.

With over 120 GW of installed capacity across more than 50,000 generation units, BAXEnergy's suite of applications offers a comprehensive connector and value stream for any modern renewable energy power plant. The company's platforms are designed to integrate with existing infrastructure, providing real-time data analytics and actionable insights that empower energy operators to make informed decisions. This focus on data-driven optimisation supports the global transition to renewable energy, making BAXEnergy an essential partner for the growth and efficiency of renewable energy assets worldwide.

Functionality includes:

- Geographic Information System (GIS)
- Power Forecasting
- Power Control
- Weather Forecast
- Alarm & Remote Notifications
- Executive Dashboards
- Availability
- Analytics
  - XY
  - Downtime
  - Wind
  - Power Curve
- SCADA with Editor
- Events Management
- Portfolio Views
- Advanced PV Maps
- Ticketing System
- CMMS

BAXENERGY

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