

**TIER/  
SIXTEEN**

CONSULTING | AUTOMATION SOFTWARE | INFRASTRUCTURE | OPERATIONAL DATA | ENGINEERING SUPPORT

# OPERATIONAL TECHNOLOGY EXPERTS



# OVERVIEW

Founded in 2016, Tier Sixteen is a **specialist engineering and automation** services company, delivering expert consultation and advisory solutions across a full spectrum of industrial operational technologies.

We help clients **select, design, and implement** robust industrial automation systems spanning hardware, software, and digital infrastructure.

Our expertise lies in **engineering seamless, integrated OT environments** that connect with corporate IT systems to enhance reporting, connectivity and data flow. From compute and storage architecture to connectivity and management platforms, we design industry solutions that empower intelligent automation and drives operational efficiency.

## OUR MISSION

Is empowering businesses to enhance productivity and drive business growth through operational technology digitalisation, industrial automation and workforce development.

## OUR VISION

We **harness the transformative potential of automation** in operational technologies and **build engineering capabilities** to shape the future technology leaders.

## OUR VALUES

Of **leadership, integrity, innovation, accountability, teamwork and personal development**, we champion a culture of creative engineering excellence.



# INDUSTRIES & CLIENTS /



## MINING

PROCESS PLANT / NON-PROCESS INFRASTRUCTURE / MATERIALS HANDLING  
DEWATERING / UTILITIES / HYDROCARBON SYSTEMS



## ENERGY



BESS / SOLAR / WIND / POWER  
GENERATION / GAS TRANSMISSION



Our business is built on **five core pillars** that work in concert to transform industrial operations - from strategy and infrastructure to automation, data, and ongoing engineering excellence. Together, these pillars deliver end-to-end solutions that **drive innovation, resilience, and results**.

# 5 SERVICE PILLARS /

Empowering Industry Through Smart OT Automation Systems and Expert Support



## CONSULTING SERVICES

/ We guide clients with expert architecture, technology evaluations, governance, risk assessment, and compliance strategies to ensure their OT systems are future-ready, secure and aligned with long-term goals.

## AUTOMATION SOFTWARE

/ From PLC programming to advanced SCADA, alarm management and configuration solutions, we create smarter control environments that elevate performance and reduce operational complexity.

## INFRASTRUCTURE DELIVERY

/ We bridge IT/OT domains with infrastructure that is virtualised, secure, cloud-enabled and communication rich, laying the groundwork for seamless and resilient operations.

## OPERATIONAL DATA SERVICES

/ We turn operational data into a strategic asset, providing centralised, real-time dashboards, historians, and reporting tools that empower smarter decisions and continual optimisation.

## ENGINEERING SERVICES

/ From owners engineering and commissioning to production support and service-level agreements, we sustain client operations with hands-on expertise, assurance and ongoing service excellence.

Through our **Consulting Services**, we equip organisations with the frameworks and expertise to evolve confidently and compliantly in a fast-changing environment. Together, these services empower clients to build a **robust, future-ready** enterprise that's both **compliant and competitive**.

# CONSULTING SERVICES /



## KEY FUNCTIONS

- / **Strategic clarity and scalability** via enterprise data architecture and technology roadmaps that align IT and OT systems with long-term business goals.
- / **Strong governance and standards** to ensure consistency, accountability, and performance across operations and technology decision-making.
- / **Informed investment decisions** through technical product evaluations and feasibility studies that de-risk choices and drive ROI.
- / **Operational safety and compliance** with OT cyber security governance and SOCI gap assessments to meet industry regulations and safeguard critical infrastructure.
- / **Resilience and risk mitigation** via CHAZOPS / CRAWS analysis and system resilience planning that minimise downtime and prepare for contingencies.
- / **Optimised asset utilisation** through effective lifecycle management of software and hardware, increasing efficiency and cost-effectiveness.

## SUMMARY OVERVIEW

- / Enterprise Data Architecture
- / Technology Roadmaps
- / Business Governance and Standards
- / Technical Product Evaluations
- / OT Cyber Security Governance
- / SOCI Act Compliance Gap Assessments
- / Feasibility Studies
- / CHAZOPS / CRAWS
- / System Resilience
- / Asset Management (software/hardware)

We specialise in end-to-end **Automation Software** that empowers clients to manage complex operational environments with precision, reliability, and insight. Together, these services create smarter industrial ecosystems that **optimise performance, minimise downtime, and reduce operational risk**.

# AUTOMATION SOFTWARE



## KEY FUNCTIONS

- / **Streamlined control systems** with expert PLC/RTU programming that ensures responsive, efficient field automation.
- / **Real-time visibility and interaction** through SCADA/HMI development that enables intuitive monitoring and control across all assets.
- / **Consistency and quality assurance** via software standards development that unifies code practices and minimises system variability.
- / **Actionable data intelligence** with Historian configuration that unlocks long-term operational trends and performance insights.
- / **Robust, secure connectivity** through network configuration that supports scalable, resilient OT communications.
- / **Design integrity and traceability** using OT design and test documentation that safeguards project continuity and compliance.
- / **Configuration precision and efficiency** with tailored configuration management solutions that track, version, and govern software assets.
- / **Safer, smarter operations** through alarm management and rationalisation that reduce alert fatigue and prioritise actionable events.

## SUMMARY OVERVIEW

- / PLC/RTU Programming
- / SCADA/HMI Development
- / Software Standards Development
- / Historian Configuration
- / Network Configuration
- / OT Design and Test Documentation
- / Configuration Management Software Solutions
- / Alarm Management, Rationalisation and Optimisation

Our **Infrastructure Delivery** services build the foundation for resilient, high-performing systems across IT and OT landscapes. We merge industrial and digital environments. This pillar enables organisations to modernise confidently - **reducing downtime, strengthening cyber resilience and accelerating digital transformation.**

# INFRASTRUCTURE DELIVERY



## KEY FUNCTIONS

- / **Unified IT/OT operations** through seamless convergence that bridges control systems and enterprise networks for improved interoperability.
- / **Stable, optimised platforms** with OS platform management and operating environment configurations tailored to your workload needs.
- / **Efficient resource use** via platform virtualisation that reduces hardware dependency and enhances scalability.
- / **Reliable connectivity** through expert network configuration, WAN/VPN design, and protocol connection that support enterprise-wide communication.
- / **Protected environments** with firewall configuration and security services that safeguard against threats and ensure compliance.
- / **Mobile and flexible access** via wireless communication setups that empower systems wherever they operate.
- / **Cloud-driven agility** through cloud deployment solutions that future-proof infrastructure and enable dynamic scaling.
- / **End-to-end infrastructure governance** with security and management services that ensure continual oversight, performance, and peace of mind.

## SUMMARY OVERVIEW

- / IT/OT Convergence
- / OS Platform Management
- / Operating Environment
- / Platform Virtualisation
- / Network Configuration
- / WAN/VPNs
- / Firewall Configuration
- / Protocol Connection
- / Wireless Communication
- / Cloud Deployment
- / Security and Management Services

We deliver powerful **Data Services** that transform operational information into actionable insight, helping organisations run smarter, faster, and with more confidence. This pillar empowers enterprises to unlock the full potential of their **operational data** - turning it into a **strategic asset** that drives **continual improvement** and **informed action**.

# OPERATIONAL DATA SERVICES /



## KEY FUNCTIONS

- / **Configuration consistency and control** via software configuration management that ensures accuracy, reduces risk, and streamlines updates.
- / **Seamless data integration** with Historian interfaces that collect and normalise time-series data for deep analysis and traceability.
- / **Real-time operational intelligence** through production management reporting that enhances visibility into processes, performance, and productivity.
- / **Intuitive visualisation tools** via dashboarding that translate complex data into meaningful, user-friendly insights for decision-makers.
- / **Secure centralisation of knowledge** with central data repositories that consolidate valuable information for access, governance, and scalability.

## SUMMARY OVERVIEW

- / Software Configuration Management
- / Historian Interfaces
- / Production Management Reporting
- / Dashboarding
- / Central Data Repositories

Our **Engineering Services** provide expert oversight, technical insight, and reliable execution across every stage of industrial operations. With this pillar, clients gain not only solutions but **sustained technical leadership** that keeps **operations safe, efficient, and productive**.

# ENGINEERING SERVICES /



## KEY FUNCTIONS

- / **Strategic alignment and technical integrity** through owners engineering that protects stakeholder interests from design through delivery.
- / **Optimised process performance** via process control and simulation that enables precision tuning, scenario testing, and system validation.
- / **Flawless execution** with commissioning support that ensures smooth handover, rigorous verification, and rapid readiness for operations.
- / **Reliable uptime and performance** through ongoing production support that resolves issues, enhances system output, and prevents disruptions.
- / **Clear expectations and accountability** using service level support agreements that ensure consistent service, measurable outcomes, and peace of mind.

## SUMMARY OVERVIEW

- / Owners Engineering
- / Process Control and Simulation
- / Commissioning
- / Production Support
- / Service Level Support Agreements

# PARTNERS & CERTIFICATIONS /

Tier Sixteen is an approved integrator of leading automation technologies, demonstrating a high level of commitment, professionalism, and competency.



## TECHNOLOGY PARTNERS

Our engineers received portfolio training, successfully passed the designated examination and demonstrated advanced technical expertise to design, program and commission solutions.

Tier Sixteen engineers have achieved:

- ✓ Schneider/Aveva EcoStruxure Plant Certified (Control Systems)
- ✓ AVEVA System Platform Certified
- ✓ Inductive Automation Ignition SCADA Gold Certified



# SOFTWARE PACKAGES /

## SCADA / HMI



## PLC / RTU



## HISTORIAN



## CHANGE MANAGEMENT





## SOLAR FARM PCS

### PROJECT SUMMARY

A 45MW solar farm with 35MW BESS was constructed and connected to an existing power station. A (PPA) with a miner supported the project, aiming to reduce emissions by up to 50%.

### SCOPE OF WORKS

- / Design and implement the Solar Farm Control System (SFCS) for seamless integration.
- / The SFCS encompassed both primary and secondary systems, including all related equipment and infrastructure.
- / A key feature was the integration of a SCADA system, providing real-time monitoring and centralised control of solar irradiance, power output, and equipment status - essential for efficient solar farm operations.

### TECHNOLOGIES

- / Rockwell ControlLogix PLCs
- / EcoStruxure Geo SCADA
- / Honeywell Experion PKS



## SOCI ACT/AECSF COMPLIANCE

### PROJECT SUMMARY

An integrated energy company subject to complying with the Security of Critical Infrastructure Act (SOCI) and the Australian Energy Sector Cyber Security Framework (AECSF).

### SCOPE OF WORKS

- / Develop the OT network architecture and create a cyber security and OT resiliency roadmap in meeting the obligations as set out by the SOCI Act.
- / Gap assessment of client assets against the developed architecture framework and planning of remediation works.

### TECHNOLOGIES

- / Claroty (cyber-physical system)
- / Octoplant (change management)



## SCADA EVALUATION

### PROJECT SUMMARY

Conduct due diligence of SCADA vendor software selection for a miner delivering several solar, wind, BESS and substation projects to decarbonise operations.

### SCOPE OF WORKS

- / Perform a SCADA product evaluation to standardise the local SCADA platform to support future development.
- / Develop the commercial and technical criteria collateral and engage the vendors with an object of scoring product compatibility to client requirements.

### TECHNOLOGIES

- / Ignition SCADA
- / Schneider GeoSCADA
- / Zenon SCADA



## OT CONSULTING

### PROJECT SUMMARY

Engaged by a tier-1 EPCM who provides operations and maintenance support for a 55MW wind farm.

### SCOPE OF WORKS

- / Provide SCADA integration services into the remote operations centre.
- / Network and communication protocols set-up, data integration and mapping.
- / System customisation, testing and validation and post-integration support.

### TECHNOLOGIES

- / OPC-UA



# PROJECTS/



## OT SOLUTION ARCHITECT

### PROJECT SUMMARY

Client representative for an integrated energy utility for 3x BESS and 5x Power Stations.

### SCOPE OF WORKS

- / OT-IT (site-based, inter-sites SCADA and control systems, LAN and WAN, Internet of Things (IoT) architecture planning, design, project engineering and project management, reviews, workshops, support, and analysis.
- / Technical advice to (OT) related program of works across the business, and primarily to the OT and energy portfolio. This includes options analysis, prioritisation, preliminary design and scoping and business case development.
- / Implementation of relevant OT strategy initiatives, including the implementation IoT reference and decision framework.



## PLC/RTU UPGRADES

### PROJECT SUMMARY

PLC and RTU upgrades for the water wash skid and fire water suppression on a 210MW power station.

### SCOPE OF WORKS

- / Perform upgrade, test and commission PLC/RTU.
- / Develop FAT, SAT, migration report, risk assessment and project documentation.

### TECHNOLOGIES

- / Rockwell ControlLogix PLCs



## SCADA DEVELOPMENT

### PROJECT SUMMARY

SCADA development and implementation support for an integrated energy utility for generation, BESS and virtual power plants.

### SCOPE OF WORKS

- / Design, development, integration, and commissioning of the SCADA platform.
- / Develop SCADA operator manual and provide training to operators.
- / Integration between client and other market operator systems incl. AEMO and Western Power.

### TECHNOLOGIES

- / Ignition SCADA



**PROJECTS** /  
ENERGY



## OT ENGINEERING

### PROJECT SUMMARY

OT infrastructure and SCADA upgrades at 2 gas turbine power stations to improve reliability for an integrated energy utility.

### SCOPE OF WORKS

- / IT/OT solution architect and technical design authority for full refresh and upgrade of existing WAN, IT, OT and cyber security infrastructure.

### TECHNOLOGIES

- / Ignition SCADA



## OT ARCHITECTURE

### PROJECT SUMMARY

Wholesale energy market - market readiness project involved SCADA and telemetry upgrades at a utilities TOBO (Trading on behalf of) sites.

### SCOPE OF WORKS

- / Design, development, integration and commissioning of WAN telemetry and SCADA network infrastructure to existing third-party sites to collect the necessary real-time data to comply with the WEM reforms.
- / Technical advice to (OT) related program of works across the business, and primarily to the OT and energy portfolio.



## OT ENGINEERING

### PROJECT SUMMARY

OT engineering and optimisation services for an independent power producers 86MW power station.

### SCOPE OF WORKS

- / Maintenance and support of virtualised OT environment.
- / Maintenance and support of PLC.
- / PCS system audit.
- / Networking audits and configuration assistance.
- / Cyber security compliance.

### TECHNOLOGIES

- / Aveva System Platform (Wonderware)



**PROJECTS** /  
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# CONTACT US /



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