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Safety and Control Systems  
Protecting people and assets,  
enhancing operations.

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Delivering transformation through innovation,  
to enhance the future of industry.

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Group



ITI Group is a technology partner to UK national infrastructure. We advance safe, secure and sustainable operations through the innovative use of technology.

At the heart of ITI Group is a complete commitment to innovation and transformation. Our people are practical, insightful and dynamic with a personal approach.

We act responsibly, focusing on safety and security, working with integrity at all times to deliver excellence through collaboration, experience and know-how.

### **We're proud of our impact on Safety and Control.**

Since 1972, we have developed and integrated innovative safety and control systems that advance the security and operational efficiency of facilities deemed critical to the UK's future.

ITI Group are empowered to protect and control large elements of the UK's national infrastructure and when we deliver a system, it is secure by design.

We demand the highest levels of safety and security, for our people and our customers, working collaboratively and inclusively to make a real difference to the world around us.

Entrusted by the largest companies in the UK across nuclear, oil and gas, renewables, transmission and distribution, and defence, we have a demonstrable track record of delivering safety and control solutions into highly regulated industries.



## **Trusted to deliver safety, security and sustainability**



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## We're committed to enhancing the future of industry.

Our goal is to enable you to achieve the highest level of safety and efficiency at the right price, while supporting the drive for decarbonisation, ultimately helping your operations to remain competitive both now, and in the future.

We work across a range of highly regulated sectors with many of the major owners, operators and contractors, building long-term, collaborative relationships with all our clients.

Working closely with customers, government agencies and regulators we're helping to reduce carbon emissions and support the work towards carbon neutrality.

Our systems, and those we upgrade, provide cost-effective enhancements to client operations. We improve safety, add new functionality, increase production efficiency, and reduce operational expenditure, ultimately extending the viable life of your assets.

Our people are driven to make a difference, possessing a wealth of experience in the field of safety and control.

They bring together thought leadership, advice and guidance on the most responsible ways to improve your existing architecture





## Why choose us?

We are experts in safety and control, with an established reputation in delivering secure and reliable systems to national infrastructure.



**We're responsible, collaborative and effective.**

We have a proven track record in delivering significant ROI for major blue chip clients.

Solving complex problems and overcoming daunting challenges is our day job. With our support, you can meet tightening regulations and standards.

With a commitment to delivering excellence, we apply our knowledge of national infrastructure, operating environments and regulation. We have the authority, experience and creativity to help you understand what is possible, and achieve it.

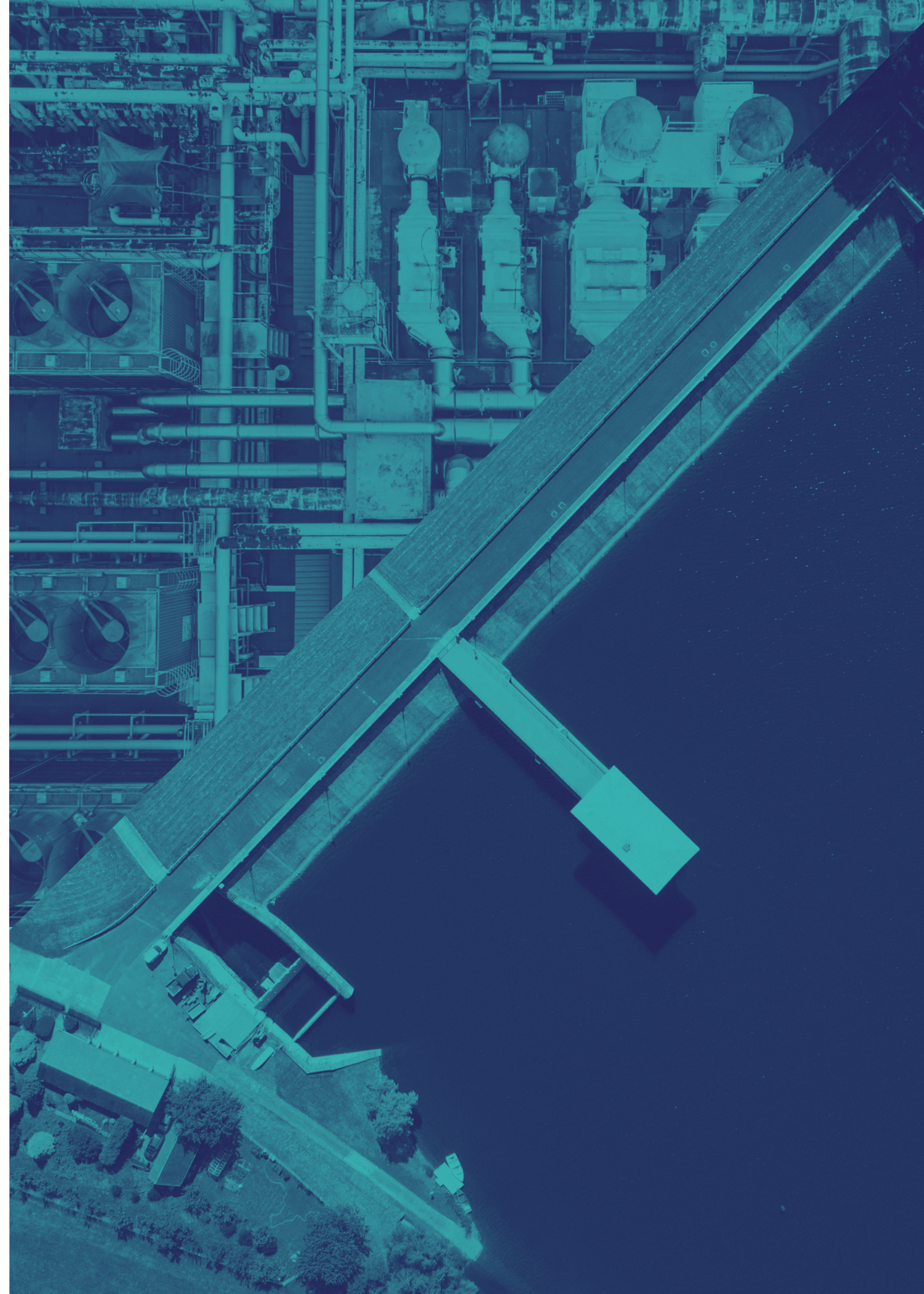


**We're agile, responsive and ready.**

We will ensure that you avoid the pitfalls and take the necessary steps to success.

Our strategic geographical bases around the UK mean we can deliver transformative solutions efficiently and effectively. We're ready to deliver on a local level and national scale, and are proud of our capability to provide reliable and continuous services, and seamless industry-wide support.

When you choose us, you can reap the benefits of efficiency, performance and functionality that the latest technology delivers.





**Our people are innovative, experienced and hard working.**

They know national infrastructure, and are committed to the hard work it takes to make your technology, systems and operations fit for the future.

Our engineers combine experience with invention, and deliver successful safety and control systems that enhance operations, with a commitment to delivering on budget, and on time.

They go to great lengths to fully understand your process and operational requirements, in order to integrate the right systems to protect them and deliver the information that you need, as you need it.

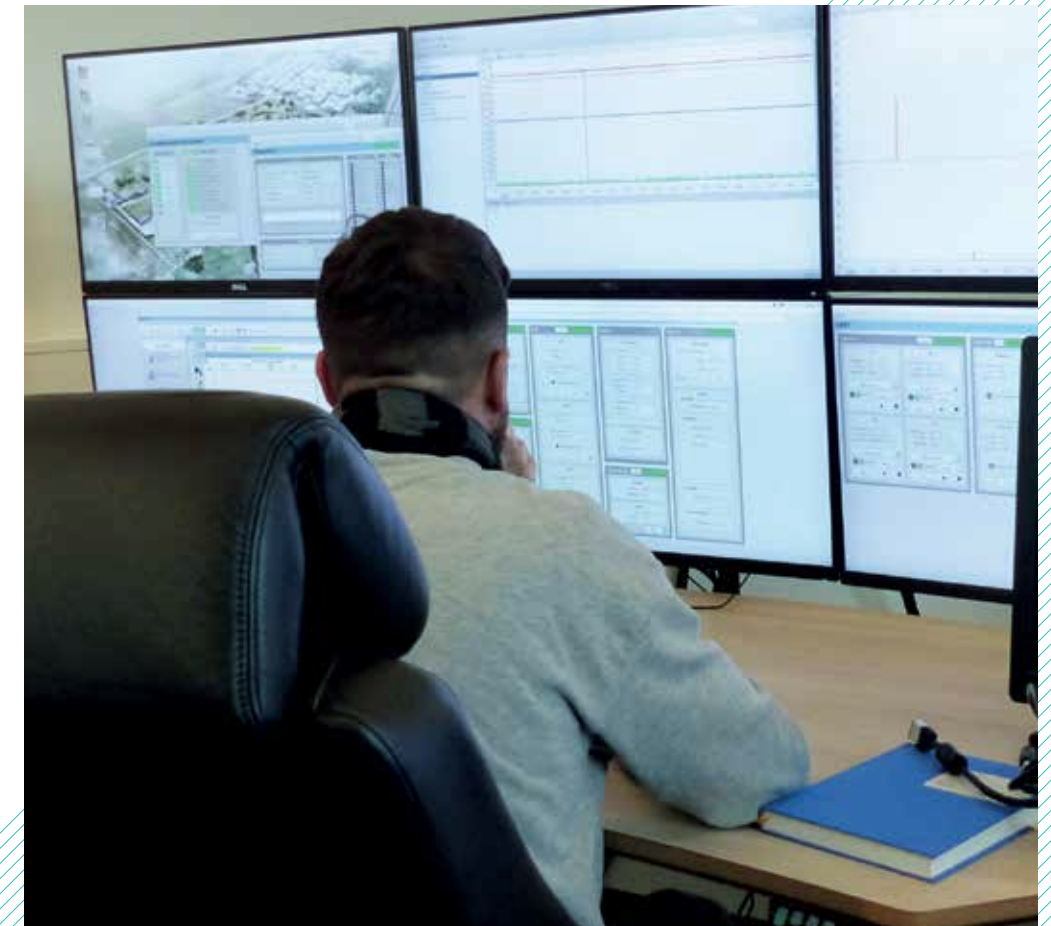
Our people support your needs by focusing on the vital details at the heart of your critical operations. They apply that focus to the intricate details and the bigger picture, delivering joined-up-solutions with joined-up-thinking; so that our safety and control systems can make a true impact on your operations.



**They are the sharp minds, and safe hands.**

Designing and implementing a resilient industrial network in an evolving cyber-threat landscape, requires core competencies in both cyber security and industrial automation, and an understanding of the different requirements of OT (Operational Technology) and IT environments.

It calls for experience on an industrial scale and setting, to be able to build a secure solution that meets your needs and defends your critical interests against threat actors, to protect your business. Our people have the know-how and experience to deliver.





## Our Accreditations and Memberships

Trust is engineered by the standard of our work.

Our people are industry leading, highly skilled and widely accredited. They are trusted to build and deliver complete end-to-end solutions for some of the most complex operational challenges that highly regulated industries face.

This combination of experience and trust is underpinned by our commitment to independent auditing and accreditation by organisations that set and maintain global standards in the work we do. The rigorous testing of our capabilities and standards, give those who choose to work with us the reassurance that our work sets global standards, and will protect their future.



## Our Safety and Control Partners

Being vendor-independent gives us the ability to advise on and integrate the best products to enhance specific applications, fit your budget, and meet your ambitions. Whether your goal is cost-efficiency, uncompromising safety levels or bespoke functionality, we can access and engineer solutions from the world's leading automation equipment manufacturers, including:





# Our Safety and Control Solutions

Our Safety and Control Systems will help you to work with greater efficiency, safety and intelligence. Protecting your people, securing your assets and enhancing your future.

## Integrated Control and Safety Systems

**Combining enhanced functionality, with operational efficiency.**  
We deliver integrated systems that include best fit elements from multiple or single OEMs. Your solution can incorporate existing systems or be a completely new architecture to combine the functionality of both control and safety systems.

Our teams who engineer and deliver your integrated solution are leaders in what they do, with extensive experience of almost every automated safety and control system used across national infrastructure.

They are capable of advising and guiding the realities and ambitions of your project and will strive to exceed your expectations.

An integrated safety and control system can deliver major benefits to your operations:

- Seamless integration of your safety and control functionality
- Enhanced productivity
- Improved safety of environment and personnel

## Distributed Control Systems

**Complex control, automated operations.**  
The automated central brain of your operations, a distributed control system (DCS) from ITI Group provides a flexible, central system to coordinate the disparate systems around your facility. Collecting data from the various sensors and devices around your facility via a high-speed communication network, the DCS then interprets this information to automate your operations by instantaneously sending instructions to a network of PLCs and operational technology throughout your facility.

**Digital Transformation with instantaneous returns**  
Vital where thousands of control loops need to be monitored in real time, our scalable DCS solutions deliver top-down control and coordination of even your most complex collection of processes, providing a holistic view of your operations in order to drive efficiency.

By automating your processes, beyond what human monitoring could ever achieve, you will digitally transform your operations and receive a range of instantaneous benefits, from production scheduling to minimise wastage, preventative maintenance to save you downtime and information exchange to drive efficiencies.

A correctly implemented DCS will:

- Reduce Risk
- Ensure Safety
- Improve Security
- Optimise Reporting
- Maximise Efficiency



## Process Control Systems

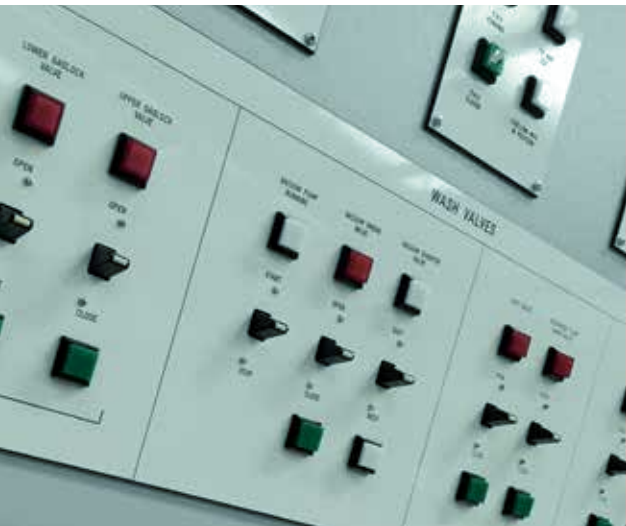
### Powerful processing, optimal production.

Automated production control eliminates human feedback and error to provide a safe and consistent means of controlling your production processes, delivering exacting functionality, increasing system throughput, eliminating inefficiencies and maximising profit.

We can help you achieve uninterrupted, even flow of production by combining our expertise in remote monitoring and analysis of real-time data, with exacting control.

By automating your processes, our systems will continuously fine tune your operations, undertaking minor adjustments in comparison with predefined set-points to deliver optimal production. We can also help you deliver even greater returns by integrating machine learning.

Our people have extensive knowledge of critical industry, a thirst for understanding the possibilities of the evolving technology and the skills to implement a system that will advance your operations. A process control system from ITI will enhance your processes, your safety, and your bottom line.



## PLC Control Systems

### A vital system, at the heart of your operations.

ITI Group have extensive knowledge of advanced PLC programming and integration, specialising in creating reliable control and automation systems for critical industries where control and reliability is paramount.

### Trusted teams, integrating innovation.

We are demonstrably competent and/or formally recognised in the development and implementation of many of the world's leading current and legacy PLC manufacturers, including but not limited to ABB, Siemens, Schneider, Rockwell and GE.



## SCADA Systems

### Responsive control, clear data and improved operations.

A well implemented SCADA system collects, processes, distributes, and displays the right data from all of your IT and OT, at the right time, notifying operators of issues in real-time, enabling them to respond quickly, to reduce risk and optimise your operations.

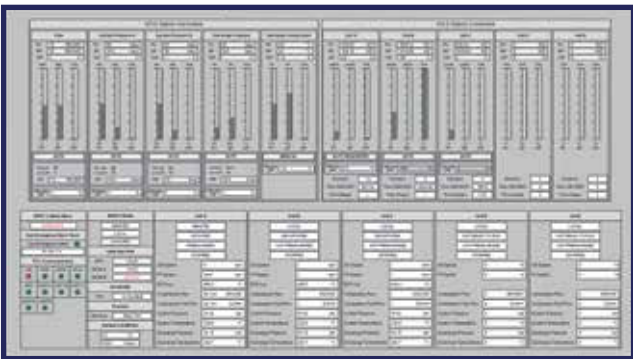
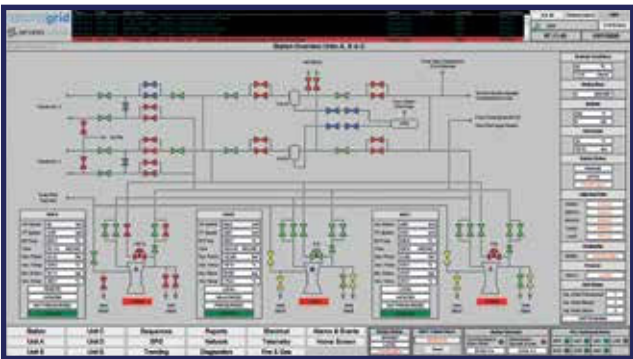
To stay competitive and profitable, organisations need to operate faster and leaner. Our systems can give you a better understanding of where to seek greater efficiency, improve quality and productivity, within your operations, all while minimising costs.

### Powerful software, implemented right.

Our engineers are experts in the design and implementation of SCADA systems. They go to great lengths to fully understand your process and operational requirements, enabling them to design solutions that will deliver the information that you need, as you need it.

We partner with manufacturers of world class SCADA Systems, including AVEVA Wonderware, Siemens WinCC, Rockwell FactoryTalk and Codra Panorama, to deliver robust systems with the assurance of verified cyber secure protection, offering intelligent solutions to your complex automation and data processing needs.

A SCADA system installed by our expert engineers will deliver enhanced data connectivity, data analysis tools, intuitive human-machine interfaces (HMIs), and the user configurable features that will provide you with the actionable information you need.





## Functional and Safety Instrumented Systems (SIS)

We help keep your assets, the environment and people safe whilst optimising your operations.

ITI Group are proud to be regarded as leaders in the field of Functional Safety and the development of engineered safety solutions. Functional Safety Process CASS accredited and independently audited, we are active members of the 61508 association and the continual investment in our people to achieve TUV Certified Functional Safety Engineer status all help to maintain ITI as a leading and trusted partner for the delivery of robust safety system solutions to sites of critical national infrastructure.



## Emergency Shutdown Systems (ESD)

Providing an essential layer of protection in the event of an emergency, an ITI ESD system will safely and efficiently shutdown an asset and is essential in the safeguarding of personnel, plant and product.

Proven in some of the most hazardous industries imaginable, our safety systems are trusted to protect the UK's most critical national infrastructure, including nuclear, oil and gas, renewables, transmission and distribution, and defence.

## Tank Overfill Protection (TOP) Systems

Our safety rated, robust, reliable systems are compliant with the recommendations published following the Buncefield fire in 2005, as well as plant assessments' Safety Integrity Level (SIL) ratings.

Our systems automatically detect overflow and leakage, protecting personnel, process and plant. They raise pre-alarms and executive actions and keep your business and site compliant with industry requirements, offering the added benefits of increased operational efficiency and higher tank utilisation based on the monitoring, actioning and reporting of key data.

Designed to ensure end to end compliancy within the identified Safety Integrated Functions (SIFS), our systems ensure that you mitigate against systematic failures and avoid catastrophic events.

## Fire and Gas Safety (FGS) Systems

We work with many of the world's leading Fire and Gas equipment manufacturers to ensure we are able to offer a best fit solution to all of our clients, whether that is standalone or integrated into a wider safety system, or you need a PLC based, addressable, or aspirating system.

We have a longstanding reputation in the engineering design and provision of industrial Fire and Gas detection and control systems to the UK's heavy industry sectors.

## High Integrity Pressure Protection System (HIPPS)

Fast detection, decisive action, and enhanced protection.

We design and commission IEC 61508 and IEC 61511 compliant High Integrity Pressure Protection Systems (HIPPS) in hardwired logic solver and software-based logic solver formats, with increased redundancy and reliability.

Our systems monitor for alarm levels and transmitter failures voted in accordance with the Safety Requirement Specifications (SRS), then analyse pressure fluctuations and execute logic based upon SIL requirements, automatically shutting off flow lines and isolating the source of the high pressure before a system's safe operating pressure is exceeded. By integrating our HIPPS solutions into your field control systems, your operators are given full oversight of the process.

We are proud of our reputation, and of the trust placed in us by industries we serve, and we're determined to protect the vital work you do, and enhance your operations.





Empower your future

## Service and Support Solutions

As part of our commitment to enhancing your future, we make sure your people get the training and information they need to confidently operate your safety and control systems to full potential.

We understand the importance of peace of mind. So whenever you need us, we give you access to the technical expertise of our dedicated engineers with the assurance that your equipment is being proactively maintained.

All of our service and support solutions are managed by established and audited governance procedures, and are fit to safeguard even the most critical assets in the nuclear, oil and gas, renewables, transmission and distribution, and defence sectors.

Via a tailored onboarding procedure our service and support packages are bespoke to your own system configuration and your particular operational and strategic needs.

We are responsible for the safe and continuous operation of some of the UK's most critical national infrastructure across multiple industries, many of which are listed COMAH sites.

The impact of our service solutions extends far beyond your bottom line. We understand the focus on ensuring safety whilst maximising operational efficiency, and our service and support solutions can help you gain valuable insights, avoid compromising safety and maximise production. The depth and resilience of our technical support services will not only keep your assets online, but they will also extend the life of ageing legacy and/or obsolete systems.

The experience gained from each and every successfully completed project is built into our service solutions, which include:

- 24/7/365 reactive support
- Proactive monitoring and automated alerting
- Remote support and monitoring
- Start-up assistance
- Telephone support
- Annual system upgrades
- Routine maintenance
- Project delivery capabilities
- System audits and reviews
- Spares, capacity and obsolescence management
- Information and cyber security reviews

With the support of our experienced teams, we can ensure that you continue to gain maximum benefit from your safety and control systems.



We advance safe, secure and sustainable national infrastructure through the innovative use of technology.

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