



# Power, Control & Automation



# TES offer an innovative approach to power, control and automation challenges.

Committed to exceeding client expectations, our team of expert engineers follow stringent quality, environmental and health and safety procedures in the design, manufacture, installation, testing and commissioning of our products and services.



Our philosophy of lifecycle engineering permeates every facet of TES as we are totally dedicated to all stages of the project, from concept to completion. Committed to giving Clients a stress-free experience, TES focus on fostering effective partnerships by providing complete support, advice and project management services.

Through our investment in research and development, TES remain on the cutting edge of technological advancement. That is why we are renowned for the expert design and manufacture of complex process control systems and LV Switchgear. Experience, expertise and enthusiasm guarantee that TES deliver premium power, control and automation solutions for a range of applications.



### *Power*

The TES building services team, provide extensive power solutions to a variety of industries. Operating on a stand-alone basis or working with other departments, our building services team offer complete tailor-made packages.

TES have extensive experience in the provision of all-inclusive mechanical and electrical solutions, servicing a number of industries to include:

- Commercial & retail
- Hospitality & recreation
- Communications
- Financial & security
- Industrial
- Healthcare
- Construction
- Utilities
- Government
- Energy
- Transport

In a sector where activities are traditionally contracted separately, TES depart from the norm by overseeing all stages of the project. We are of the belief that the Client should have a stress-free experience by providing an all-encompassing service minimizing the need to deal with separate suppliers. From concept to design, installation, testing, commissioning right through to continued maintenance, TES offer a fully integrated project management service.





  
**TES**  
LIFECYCLE  
ENGINEERING

As market leaders in the design and build of complex process control systems, TES deliver every time.



TES have established a reputation for offering an all-encompassing service to include:

- Power generating solutions
- MV/LV switchgear
- Building management systems (BMS)
- Energy auditing
- Facilities management & maintenance (FM&M)
- Electrical installation
- Fire suppression systems
- Fire & intruder alarm installations
- UPS & data installations
- CHP & HVAC systems

Our building services team, through effective consultation, seamless communication and complete project management, take the onus off the client. Our meticulous planning is the key to success and by providing installation and commissioning schedules, our team can provide a fully integrated and co-ordinated service, to ensure optimal project delivery.

### *Control & Automation*

TES are market leaders in the design and manufacture of complex process control and automation systems.

With an impressive reputation in specialist sectors such as water and wastewater, factory automation and quarrying, TES have defined the market in systems integration.

Our team of accomplished engineers design, manufacture, test, install and commission a range of applications for systems integration. These vary from state-of-the-art Motor Control Centres (MCC's) to industrial distribution boards, operating both public and private sector applications.

Our bespoke process control panels are designed to standalone or seamlessly integrate into an existing system. Irrespective of the scale of the project, all applications fulfil specific functions and are designed to meet future expansion requirements if necessary. Whether following Client specifications or deploying our skilled design team to develop the entire panel, TES guarantee optimal performance.

The TES design team are acutely aware that attention to detail at the initial specification is paramount. This ensures the control

system fulfils requirements, meets the budget and timeframe and is fully operational with minimal disruption. Client satisfaction is guaranteed.

From a single door cabinet to a complex modular Form 4 PLC MCC, the process is the same. Our skilled technicians and engineers work within the remit of our quality management system which is overseen by our expert project managers who carefully monitor the entire procedure.

Attention to detail is second to none and no project is complete until each and every control system successfully passes our rigorous commissioning process. Carried out by our team of experienced technicians, Clients are welcome to witness all commissioning at our bespoke testing area. Safety, quality and performance are the trademarks of TES.

### *Intelligent Software*

Operating on the cutting edge of technological developments, our expert design team offer advanced solutions, selecting the most appropriate platform to suit the application. With extensive experience in the development of complex process systems with computer hardware and intelligent software, TES undoubtedly lead the market in Supervisory Control and Data Acquisition (SCADA) and Programmable Logic Controllers (PLC) solutions.

Our SCADA systems, which are critical for remote monitoring and controlling exact processes, can incorporate software systems such as:

- Rockwell Automation (RS View, FT View)
- Siemens WinCC
- National Instruments
- Wonderware
- Iconics
- Fix Dmacs

Our PLC software engineers offer high quality intelligent automation solutions and our programmers have gained extensive experience in the following systems:

- Mitsubishi
- Rockwell
- Siemens

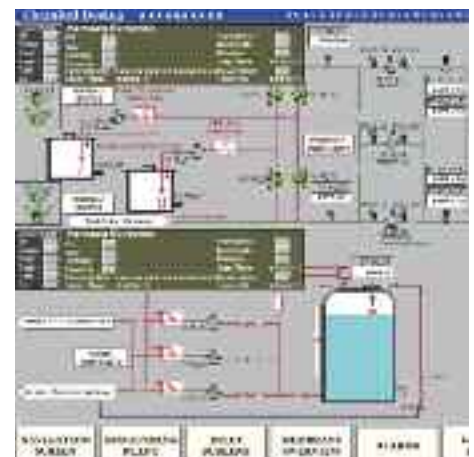
- Schneider Electric
- Omron
- Alfa Laval
- Texas
- Satt

TES have a proven track record in bespoke software development, testing and commissioning to ensure our solutions meet Client requirements.

From a standalone PLC control system to redundant networked systems, TES also offer HMI or computer access for plant control and monitoring. Clients have the option to further expand the system to incorporate additional technologies such as:

- Ethernet, profibus or plc propriety networks
- Remote access by GPRS and 3G modem
- Remote internet access
- Telemetry
- Connectivity to databases and manufacturing systems software

Our advanced systems have the ability to perform complex operations, record data, monitor activity and raise alarm should fault arise. From touch button control to remote monitoring, our systems are built to the highest specification and in line with current legislation and best practice to guarantee premium performance. Whether following Client specifications or designing bespoke solutions, TES ensure that health, safety and quality are never compromised as rigorous testing and commissioning is undertaken as part of the installation process. Performance is always guaranteed.



Experience, expertise and  
enthusiasm guarantee  
that TES deliver premium  
power, control and  
automation solutions.



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