

## *BUILDING AND MAINTENANCE SOLUTIONS*

**We have an exceptional track record for delivering and maintaining infrastructure encompassing electricals, telecoms and other utilities. We also maintain core buildings ranging from network operation centres, cable landing stations, repeater sites, substations and transformer sites with an absolute focus on safety, quality and sustainability.**

- Mechanical and electrical
- Fire alarms
- Lighting installation
- Remote access control
- AC and DC installation and maintenance
- Ground maintenance
- General building works

Working with both public and private sector clients, we pride ourselves on the duty of care we provide to our clients and their infrastructure. Infrastructure is what keeps the world connected and that's why we are available 24/7, with a two-hour response time.

### **ELECTRICAL**

- Power
- Main switchboards
- UPS installation
- Upgrades and compliance
- Testing and commissioning
- Automation
- Preventative maintenance and repair
- AC low and high voltage

### **INTEGRATION AND ENERGY EFFICIENCY**

- Building technologies
- Design, installation and commissioning
- PLC - Programmable Logic Controllers
- Electromechanical installation
- Energy management
- Tri-generation and co-generation

### **INFRASTRUCTURE**

- Design, installation and commissioning
- Electrical mains and switchboards
- Generators
- Data and fibre
- Lighting control
- Security
- Audio visual
- Civil Construction

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### **LIGHTING CONTROL**

- Design, supply and commissioning
- On-site technical support for foremen and project managers
- DALI commissioning
- Complete as-built CAD drawings and operation manuals
- Training for staff and clients
- Building management control

### **AUDIO VISUAL SYSTEMS**

- Multiple solutions including cabling-only, or cabling, installation, commissioning and training
- Boardrooms, function rooms, lecture theatres, clubs and more
- Consultative and engineering services
- General and preventative maintenance agreements

### **CCTV AND SECURITY SYSTEMS**

- Complete service covering cabling, installation, programming and training
- On-site technical support for foremen and project managers
- Integration with lighting control systems
- Complete as-built CAD drawings and operation manuals
- Design, installation and commissioning
- Fixed camera, or PTZ
- IP camera solutions
- DVR or server based solutions

### **FIRE**

- Fire prevention systems
- Detection and alarm systems
- Emergency solutions
- Fire control
- Evacuation management systems
- Testing and commissioning

### **EXIT AND EMERGENCY**

- Emergency lighting control
- Power failure control
- Uninterrupted Power Supply (UPS)
- Alarm and detection systems
- Crisis and disaster management programs

### **THERMOGRAPHY**

- Structural imaging
- Plant and machinery analysis
- Energy loss inspection
- Thermal performance evaluation

### **SUSTAINABILITY**

- LED lighting solutions, including retrofits and installation
- Solar energy generation
- Renewable energy sources
- Water and waste management systems
- Project and funding management
- Energy audits
- Small scale wind energy supply
- Electric car chargers / stations
- Power factor correction
- Voltage optimisation
- Energy storage



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### **TESTING AND COMMISSIONING**

- PD, Tan Delta, online and offline monitoring
- Cable testing including VLF
- Protection relay programming and testing
- Generator testing and commissioning
- Switchboard testing and commissioning including GIS
- Protection scheme testing, primary and secondary including differential and distance
- Transformer testing, oil sampling and oil filtering
- Thermal imaging
- Full functional scheme testing of any high or low voltage installation
- CT and VT testing
- Earthing system testing
- Step and Touch potential testing
- Test equipment hire long or short term
- Circuit breaker maintenance and repairs
- Transformers/switchgear maintenance and repairs
- Transformer Tan Delta testing and PD
- SF<sub>6</sub> gas filling and analysis
- Remote end-to-end secondary injection testing
- Automatic transfer scheme testing
- TX diff and REF primary injection testing
- OTDR Testing on three wave lengths (1310, 1510 & 1625)
- Fibre scope and insertion loss testing
- Workbooks generation

### **TEST AND TAG**

- Electrical examination
- Compliance certification
- Repair and maintenance contracts
- Full audit and reporting



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