

# Mechanical and Electrical Contractors

→ Cover

Services

Our Approach

Contact

Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

High Voltage Services

## Contents:

- Services
- Our Approach
- Mechanical & Electrical
- Renewable Energy Services
- Electrical Safety Testing
- Lighting Services
- Electrical & Instrumentation
- Data & Telecommunications
- Railway Services
- High Voltage Services
- Contact details

The logo for SSE Contracting features a stylized green leaf icon to the left of the text 'SSE' in a large, bold, blue font, with 'Contracting' in a smaller, green font below it.

# M&E Contractor of Choice

SSE Contracting is one of the country's leading Mechanical and Electrical contractors and is built on a foundation of quality, safety and good planning. From conception to completion, we provide a personal service with solutions carefully engineered to meet your budget and technical specification.

You can hand your project over to us confident that every element will be handled both professionally and safely. We deliver and specialise in a wide range of services from small re-wires to major design and build projects.

## Mechanical & Electrical Services

- M&E Design, Installation, Commissioning, Refurbishment and Maintenance
- Heating, Ventilation and Air Conditioning
- Electrical Power and Distribution
- Data and Telecommunications
- High Voltage Installation and Maintenance
- Fire and Security Systems
- Underground Utility Surveying
- Carbon Management Services

## Renewable Energy Services

- Solar Photovoltaic (PV) Panels and Roof Tiles
- Solar Thermal Systems
- Air and Ground Source Heat Pumps
- Wind Turbines
- Feasibility, Design, Installation, Commissioning and Maintenance

## Electrical Safety Testing

- Fixed Wiring Inspection and Test
- Schematic and As Installed Drawings
- Portable Appliance Testing (PAT)
- Fixed Equipment Testing
- Thermal Imaging Surveys
- Energy Efficiency Reports
- Emergency Lighting Testing

## Lighting Services

- Street Lighting PFI Projects
- Public Private Partnerships
- Highway Lighting and Maintenance Contracts
- Independent Connection Provider (NERS Accredited)
- Sports Arena and Car Park Lighting
- Feasibility, Design, Installation and Maintenance
- Intelligent Management Systems
- Asset Management Software

## Electrical & Instrumentation

- Petrochemical, Pharmaceutical, Nuclear, Power and Renewable Energy
- Electrical, Instrumentation, Control and Automation
- Fire, Gas and ESD Systems
- Calibration, Testing and Pre-Commissioning
- Process and Pneumatic Instrument Hook-ups
- Containment Systems and Cable Installation

## Data & Telecommunications

- Data and Voice Structured Cabling
- Optical Fibre Solutions
- WiFi Networks
- Active Systems
- IP Surveillance and Access Security
- Comms Room and Data Centre Design and Build
- UPS, DC and Back-up Generation
- Design, Installation and Maintenance Service
- 24 Hour Nationwide Call-out Service

## Railway Services

- M&E Design, Installation, Maintenance and Refurbishment
- Heating, Ventilation and Air Conditioning
- Power and High Voltage
- Lighting
- Data Communications
- Fire and Security Systems

## High Voltage Services

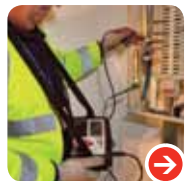
- Design and Build of New HV Systems
- Refurbishment and Upgrading of HV Networks
- Control, Operation and Maintenance
- Testing and Grading of System Protection
- HV Cable Laying and Jointing
- HV Cable Fault Location and Repair
- 24 Hour Emergency Call-out



Mechanical &amp; Electrical



Renewable Energy Services



Electrical Safety Testing



Lighting Services



E &amp; I



Data &amp; Telecommunications



Railway Services



High Voltage Services

# Our Approach

Page 1 Page 2 →

Consultancy

24 hour call out

Partnering

Design

PFI projects

Mechanical  
& Electrical

Renewable  
Energy Services

Electrical  
Safety Testing

Lighting Services

E & I

Data &  
Telecommunications

Railway Services

High Voltage  
Services

## Safety First

Our number one core value at SSE Contracting is safety. Successive RoSPA Gold Awards reflect the effectiveness of our safety policies and management systems. All our staff are signed on to their Health, Safety and Environment responsibilities, are given instruction on legislation and best practice procedures appropriate for their work.

- Daily risk assessments
- Regular on-site safety audits
- Use of full range of personal protective equipment
- Hazards and risks controlled at worksite
- 30 minute incident reporting

## Quality Service

Our electricians and engineers will give you the quality workmanship you expect. Our quality procedures are accredited to ISO 9001 and we are proud of the professional service we deliver.

## Expertise and Experience

SSE Contracting has accreditation to all the relevant trade organisations. We have a proven track record of working in specialised environments which entail specific safety conditions and require highly trained engineers.

The technical expertise of our Mechanical and Electrical engineers enables us to apply a co-ordinated approach delivering electricity, gas, water and IT infrastructure projects.

## Education and Training

Commitment to education and training allows us to carry out work in a wide range of environments. We continually strive to strengthen our position by investing in new skills. Our Apprentice Scheme is an integral part of our operations.

We run free educational seminars for clients on topical subjects, including how energy efficient technologies can help business, explaining government grant schemes and implications of new legislation.

## Partnerships

With a long history of working with local authorities, contractors and developers, SSE Contracting is experienced in collaborative partnerships. We can work with you to find the best arrangement to suit your specific requirements.

## Innovation

An integral part of the culture at SSE Contracting is the innovative thinking that encourages sustainable growth. We enjoy working with innovative companies in the renewable energy marketplace and are well placed to help you adapt to changes in energy generation and consumption.

# Our Approach

Maintenance

Balance

Waste Reduction

Core Values

Efficiency

Recycling

Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

High Voltage Services

## Carbon Management

Energy Efficiency is top of our agenda. Our drive for continuous improvement and strategic approach to carbon management makes it possible for us to introduce new services to help reduce your energy consumption.

## Opportunities

The need to take control of energy consumption is as important within a small office environment as it is in a large industrial complex.

Whatever stage you are at in taking control of your energy use we can help, from initial monitoring and reporting services, to improvements in your power, heating and lighting using energy efficient equipment. Taking advantage of new control technologies ensures equipment only runs when required.

## Rewards

Significant savings can be made by ensuring mechanical and electrical infrastructure runs at optimum operating efficiency. By keeping primary plant items maintained helps reduce energy costs and avoids expensive breakdowns.

We can guide you through the complexities of funding options and help you fulfil your energy reporting and conservation requirements. At the same time we can ensure that you take the necessary controls to reap maximum rewards.

## Duty to Care

Our duty to care for and protect the environment begins before we start any job or plan any project. As part of our stringent risk assessment procedures we identify environmental impacts of our operations and either remove hazards, or put control measures in place to minimise any environmental impact. Our fully developed Environmental Management System is demonstrated by our accreditation to ISO14001.

## Waste Minimisation

Waste minimisation is about preventing and reducing waste at source through the efficient use of raw materials, energy and water. SSE Contracting's procurement process duly reflects this and we consult with our carefully selected supply chain to benefit from their knowledge and experience.

We recycle electrical equipment within and outside the WEEE directive, and continually strive to identify other waste streams that can be recycled to the same exacting standards.

## Balance

Finding a balance to achieve economic development, environment protection and social responsibility is the end goal of our sustainable business approach.



# Mechanical & Electrical

Page 1 Page 2

## MECHANICAL & ELECTRICAL

Mechanical and Electrical Services form the core of a building's infrastructure and require skilled, experienced professionals to design, install and maintain them. SSE Contracting has a proven track record in a wide range of Mechanical and Electrical Services covering design, installation and commissioning, refurbishment and maintenance.

With the need for increasing control of energy consumption and improved carbon reduction, we have the necessary expertise and experience to help your business become energy efficient and reduce your carbon output.

Our extensive network of qualified Electricians, Engineers and Mechanical Tradesmen work out of more than 60 offices nationwide.

SSE Contracting work across a wide range of market sectors including:

- Local Authorities
- Housing Associations
- Education
- Health
- Data Centres
- Industrial and Commercial Organisations
- Government/MoD
- Retail
- Utilities



**SSE**  
Contracting

1  
2

Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

High Voltage Services

# Mechanical & Electrical

Page 1 Page 2

With extensive experience established over many years we can assist you with your infrastructure services to ensure they meet optimum requirements.

- New build installations
- Refurbishment and upgrade projects
- Inspection and testing
- Energy efficiency services
- Planned and reactive maintenance
- Repairs

These services are offered nationally by our network of local offices in commercial, industrial and domestic buildings:

- Electrical lighting, power and distribution systems
- Heating and hot water systems
- Piped gas services
- Sanitary plumbing and drainage services
- Fire system design, installation and maintenance
- Internal, external and emergency lighting
- Access control systems
- Ventilation and climate control
- Building management systems

At SSE Contracting we pride ourselves on our standards of customer service and we believe in adopting a collaborative working ethos based on trust and mutual understanding, incorporating lessons learned from all projects.

In successful and innovative partnering solutions we establish common approaches based on openness and shared values. Each partnership is a bespoke arrangement developed in consultation with our clients. Tailored to specific needs this can help with:

- Service delivery
- Streamlining of costs
- Resource sharing
- Administration

With our national coverage and commitment to employing local staff we welcome both large and small Mechanical and Electrical projects. SSE Contracting can offer:

- Consultancy
- Design and build
- Project management
- Maintenance management
- Partnering agreements
- Prime contracting
- Private Finance Initiative (PFI) funded projects



- ➔ Safety
- ➔ Service
- ➔ Efficiency
- ➔ Sustainability
- ➔ Excellence
- ➔ Teamwork

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1  
2

Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

High Voltage Services

# Renewable Energy Services

Page 1 Page 2

## RENEWABLE ENERGY SERVICES

**SSE Contracting is at the forefront of renewable energy companies able to deliver 'green' energy generation solutions for your business.**

We have extensive experience of successfully delivering mechanical and electrical infrastructure projects and our capabilities in the design and build of renewable energy solutions is no exception.

Our Renewable Energy Services team will advise on whether planning permission will be required, the availability of Government funding and also guide you through any associated paperwork. SSE Contracting has the support of a leading energy company with a wealth of knowledge and experience in the practical application of renewable energy technologies.

We work with:

- Local authorities
- Housing associations
- Industrial/Commercial premises
- Manufacturing and storage facilities
- Housing, retail and leisure developments
- Farms and other agricultural premises

Electrical microgeneration systems attract a range of Government initiatives:

- Feed-in Tariff (FIT) rates depend on the scale, type and size of the renewable energy installed
- Renewable Heat Incentive (RHI) is the first of its kind in the world and is designed to incentivise the use of renewable heat technologies

We are accredited to the REAL Assurance Scheme, whereby we ensure to comply by the high standards set out in their Customer Code, as well as the Microgeneration Certification Scheme (MCS), an approval scheme operated by the Department of Business Enterprise and Regulatory Reform (BERR). The MCS evaluates products and installers against robust criteria for microgeneration technologies. This gives you assurance of:

- Quality of product and installation services
- Realistic expectations for the performance of microgeneration systems in practice



**SSE**  
Contracting

Mechanical & Electrical

1

2

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

High Voltage Services

# Renewable Energy Services

Page 1 Page 2

By integrating renewable energy technology into your infrastructure you will be doing your bit for the environment and reduce the amount of CO<sub>2</sub> generated by your business.

## Solar Photovoltaic (PV)

Solar PV products may not require planning permission and we can integrate them into roof tiles, glazing, street furniture and building cladding. Systems are quick and easy to install, have a long functional life, require minimal maintenance and do not harm the environment.

If your site is south facing then you may be eligible for our Free-PV option. SSE will design, install, commission and maintain your Solar PV system completely free of charge and in return, we will collect the Feed-in Tariff and any excess export income. You will still benefit from the free electricity generated by the system, which will significantly reduce your annual electricity bill.

## Solar Thermal

Solar Thermal collectors placed on the roof gather the sun's radiant thermal energy transferring it to heating fluid pumped through a coil in a hot water storage cylinder. This allows us to provide a cost effective hot water solution for your property, reducing the need to use a conventional boiler.

## Heat Pumps

Heat pumps extract heat from the outside, either from the air or ground, and use it for heating and hot water. The technology is widely used in Europe and becoming more common in the UK. It is a cost effective technology, particularly in areas where electrical hot water and heating are the only options.

## Biomass

Biomass heating has become a viable and economic solution, especially for rural areas which are off the gas grid. The new biomass boilers operate at very high efficiencies and can utilise a range of fuels; woodchips, wood pellets, certain energy crops and agricultural residues.

## Wind Turbines

From the installation of a single turbine to the complete design and build of a 120MW wind farm generating renewable energy direct to the national grid, our Renewable Energy Services team will work with you to develop a solution that takes into account your energy consumption and your budget.

Our SSE Renewables business can offer landowners and communities options on land rental in developing wind turbine projects. SSE Renewables will fund 100% of a project from feasibility through the planning process, construction, operation and ultimate decommissioning, whilst paying land rental based on the output of the turbines.

SSE Contracting can assist in determining which renewable technology is suitable for your business. From concept to completion, we will provide you with:

- Advice/Guidance
- Assessment/Feasibility survey
- Project management
- System design and installation
- Service and maintenance
- Fault response and repair
- Environmental impact assessment



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# Electrical Safety Testing

Page 1 Page 2

## ELECTRICAL SAFETY TESTING

**SSE Contracting is one of the UK's leading Inspection and Test companies dedicated to helping you comply with current Health and Safety Legislation.**

Neglecting faulty electrical equipment and your building's fixed wiring could result in injury, damage to your building, lost income and fines if found in breach of your statutory legal responsibilities. In the worst case scenario it could invalidate your insurance claims and even put you out of business.

As an employer you have a legal responsibility to protect the health and safety of your staff and other people, as defined in the Electricity at Work Regulations 1989. A system of regular electrical safety testing in line with current legislative guidance notes not only provides evidence that you are managing your risks responsibly, it is often a compulsory element of the terms of your insurance policy.

We have a proven track record for delivering a professional, high quality and cost effective testing service for all types of electrical appliance and installations:

- Fixed Wiring Inspection and Test
- Schematic and As Installed Drawings
- Portable Appliance Testing (PAT)
- Fixed Equipment Testing
- Thermal Imaging Surveys
- Energy Efficiency Reports
- Emergency Lighting Testing
- Reports are available online and can be supplied in our Electrical Systems Logbook or electronically if required.



**SSE**  
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Mechanical & Electrical

Renewable Energy Services

1  
2  
Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

High Voltage Services

# Electrical Safety Testing

Page 1 Page 2

## Portable Appliance Testing

The recommended frequency for portable appliance inspection and testing varies from three monthly upwards and is dependant upon the type of equipment, the environment and the nature of the work activity carried out at your premises. Once our qualified operatives have tested your electrical appliances, each item is labelled with a unique identification number that is used as a reference within your equipment register. The labels are barcoded and colour coded which enables you to easily identify any appliances that fall outside of their test date.

## Fixed Wiring Inspection and Test

SSE Contracting will carry out an inspection and test of your fixed wiring in accordance with the guidelines laid down within the Institution of Electrical Engineers Wiring Regulations BS7671:2008 (as amended) and other relevant legislative guidance notes. Recommended frequencies for testing generally range from annually to five yearly and are dependant upon the nature of your business, as well as the age and the condition of the installation.

After the fixed wiring inspection we will provide you with an independent condition report that identifies deviations from the current Regulations. Any danger areas requiring immediate action will be highlighted to you on site by our fully qualified electricians, who will also issue you with an 'Urgent Defect Report.' Our national network of local offices can then assist you in carrying out any remedial works if required.

## Thermal Imaging Surveys

Thermal imaging surveys can identify components which are breaking down, hot spots in electrical distribution systems and areas where heat is being lost from buildings.

Our service is non intrusive and an ideal way of carrying out electrical safety inspections as part of your routine maintenance and condition monitoring requirements. Producing photographic evidence which identifies these defects can also reduce unplanned maintenance charges.

Finding a loose connection or potentially overloaded component in your electrical switchgear can also prevent the risk of fire that may not always be detected by a visual inspection.

Thermography is now recognised by the IEE Wiring Regulations (Guidance Note 3) as a valued addition to regular inspection and testing.

## Energy Efficiency Reports

Using state of the art equipment, our energy efficiency monitoring service assesses the way electricity is consumed within a specific building or site and gives you a graphical indication of your energy consumption.

By monitoring your energy pattern, typically over a 7 day period, our report will identify if energy is being wasted, whether there is poor power factor and any phase current imbalances.

An energy efficiency report provides the evidence to enable you to take action to reduce your carbon levels and potentially save money on your energy bills.

**Recommended frequencies for fixed wiring inspection and test, a requirement of BS7671:2008 (as amended), are as follows:**

Type of installation	Maximum period between inspections and testing as necessary
----------------------	---

### General installation

Domestic	Change of occupancy /10 years
Commercial	Change of occupancy /5 years
Education establishments	5 years
Hospitals	5 years
Industrial	3 years
Residential accommodation	5 years
Offices	5 years
Shops	5 years
Laboratories	5 years

### Buildings open to the public

Cinemas	1-3 years
Church installations	5 years
Leisure complexes (excluding swimming pools)	3 years
Place of public entertainment	3 years
Restaurants and hotels	5 years
Theatres	3 years
Public houses	5 years
Village halls / Community centres	5 years

### Special installations

Agricultural and horticultural	3 years
Caravans	3 years
Caravan parks	1 year
Highway power supplies	6 years
Marinas	1 year
Fish farms	1 year
Swimming pools	1 year
Emergency lighting	3 years
Fire alarms	1 year
Launderettes	1 year
Petrol filling stations	1 year
Construction site installations	3 months

→ Safety

→ Service

→ Efficiency

→ Sustainability

→ Excellence

→ Teamwork

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# Lighting Services

Page 1 Page 2

## LIGHTING SERVICES

**SSE Contracting is the largest external public lighting contractor in the UK, specialising in supplying the full range of consultancy, design, installation and maintenance management for local authorities, contractors and developers.**

With many years experience in the lighting services arena, we have the knowledge, expertise and manpower to provide you with the highest standards of service you expect.

SSE Contracting has several Private Finance Initiative (PFI) projects in the UK, from the North East to the South Coast of England. We pride ourselves on establishing strong partnerships with our clients and with shared philosophy and common goals we commit to work in a spirit of honesty, openness and co-operation.

Our Lighting Services teams use the latest technological advances, including intelligent management systems, to find the most effective and sustainable lighting option for your needs.

- Street lighting Private Finance Initiative (PFI) projects
- Public private partnerships
- Highway lighting and maintenance contracts
- Feasibility and design
- Existing equipment condition surveys and reports
- Independent connection provider (NERS accredited)
- Installation and maintenance
- Sports arena and car park lighting
- Facility and asset management software solutions
- Maintain and update record drawings
- Lamp disposal
- 24 hour nationwide call-out service



**SSE**  
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Mechanical  
& Electrical

Renewable  
Energy Services

Electrical  
Safety Testing

1  
2  
Lighting Services

E & I

Data &  
Telecommunications

Railway Services

High Voltage  
Services

# Lighting Services

Page 1 Page 2

For new building developments, SSE Contracting will liaise with all relevant parties, delivering projects to your exact specification and with NERS accreditation we provide a seamless service. We will design, build, and co-ordinate electricity services, liaising with the relevant authorities.

Our valuable pre-adoption energy management and maintenance service for building developers, includes monitoring electricity consumption of construction site street lighting.

Auditable records management enables accurate electricity cost calculations by demonstrating:

- Technical specification of equipment installed
- Connection dates
- Burning hours

We use a bespoke Facilities Management program to provide a complete service, from installation and connection right through to handover.

With a nationwide network of local offices, SSE Contracting can develop and instigate a comprehensive maintenance programme of any size. We understand the importance of utilising the local labour force wherever possible.

SSE Contracting's commitment to quality, safety and the environment is recognised by ISO9001 accreditation and our registration to the Highways

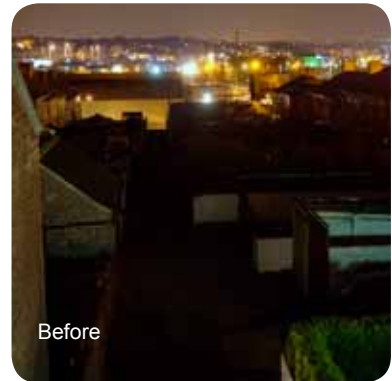
Agency Scheme 8. All Lighting Services operatives are signed on to the Highway Electrical Registration Scheme for the Registration of Authorised Persons.

Our dedication to improving lighting standards through research and development provides benefits to the environment and safer streets, reducing criminal activities and road traffic accidents.

Cyclic maintenance regimes and asset replacement programmes require careful management of resources. With sustainability as one of our core values SSE Contracting implement the process:

- ↓ Reduce
- ↓ Re-use
- ↓ Recycle
- ↓ Recover

New methods of dealing with by-products of all operations are constantly monitored and where appropriate trialled. SSE Contracting is accredited to ISO14001 and has an Environmental Management System which establishes and maintains control of environmental impacts in a systematic and dependable way.



- Safety
- Service
- Efficiency
- Sustainability
- Excellence
- Teamwork

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# Electrical & Instrumentation

Page 1 Page 2

## ELECTRICAL & INSTRUMENTATION

**SSE Contracting's E&I division have the expertise, resources and technical support to design, install, pre-commission and test electrical and instrumentation systems for your industry.**

Our extensive project management capability will ensure your projects are delivered professionally and safely. Flexible working patterns are tailored to meet your exact requirements, minimising disruption to normal business operations.

Close liaison between our clients and our directly employed project managers, qualified engineers and technicians, combined with our rigorous quality and safety procedures and excellent customer service ensures a trouble free contract.

Our dedicated and reliable specialists can offer Electrical and Instrumentation in the following industry sectors:

- Petrochemical
- Pharmaceutical
- Fine chemical
- Gas storage
- Nuclear
- Infrastructure
- Power generation
- Renewable energy
- Water and sewerage
- Industrial and commercial manufacturing
- Industrial process facilities



Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

1

2

E & I

Data & Telecommunications

Railway Services

High Voltage Services

# Electrical & Instrumentation

Page 1 Page 2

SSE Contracting offer a comprehensive range of electrical, instrumentation and control services installed to the highest standards. Installation work is carried out by our directly employed and fully trained workforce, strictly in accordance with all current approved codes of practice and legislation.

Our experienced staff provide electrical services including:

- HV and LV distribution systems
- Lighting and small power
- Containment systems and cable installation
- Fire, Gas and ESD systems
- Communication systems
- Trace heating and cathodic protection
- Lightning protection
- Hazardous area installation, inspection and reporting

From initial concept through to testing and commissioning, our project management teams will deliver a wide range of E&I services which include:

- Pneumatic, electrical and electronic testing devices for inspection and testing of instrument and system operation, and diagnose faults
- Installation and maintenance of instruments on new or existing plant equipment and processes
- Calibration and maintenance of components and instruments according to manufacturers' specifications

- Repair, maintain and adjust system components or remove and replace defective parts
- Instrument hook-ups
- Small-bore piping installation
- SCADA and PLC installation
- Pressure controls
- Flow meters
- Temperature valves
- Test and pre-commissioning
- Maintenance
- Consultation and advice to process operators
- Risk assessment analysis

We are committed to providing an environment and culture whereby safety, health and environmental issues are at the forefront of everything we do. Our outstanding and consistent E&I safety performance is recognised by national bodies such as RoSPA and the British Safety Council.

This performance is particularly notable as the majority of E&I work is carried out in extremely hazardous environments.



➔ Safety

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Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

1  
2  
E & I

Data & Telecommunications

Railway Services

High Voltage Services

# Data & Telecommunications

Page 1 Page 2 →

## DATA & TELECOMMUNICATIONS

**SSE Datacom is the specialist system integration business of SSE Contracting. With extensive knowledge of working in challenging environments, we have grown to become a market leading solutions provider.**

We offer the capability from a company with significant infrastructure and extensive corporate networks nationwide. All aspects of system integration, from data and voice cabling through to implementing complete LAN and WAN infrastructures, are undertaken for our clients.

Dedicated Project Managers ensure that work is completed with minimum disruption and to the highest levels of quality and customer satisfaction. SSE Datacom provides total solutions encompassing:

- Data and voice structured cabling
- Comms room and Data Centre design and build
- Optical fibre solutions
- WiFi networks

- Active systems
- IP surveillance and access security
- UPS and back-up generators
- Full design, installation and maintenance service
- 24 hour nationwide call-out service

### Data and Voice Structured Cabling

In today's competitive global markets, communication networks are critical to the success of every organisation. The first building block in these networks is the cabling infrastructure to the desktop and without satisfactory performance it can be the weakest link in the chain. We build the data and voice cabling infrastructures that offer reliable support for the communication networks of today and tomorrow.



**SSE**  
Datacom

Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

1  
2  
Data & Telecommunications

Railway Services

High Voltage Services

# Data & Telecommunications

Page 1 Page 2

## Comms Room and Data Centre Design and Build

Demand for network storage within the IT Industry, Comms Room and Data Centre builds are increasing. We are established at the forefront of this, successfully completing prestige projects.

## Optical Fibre Solutions

Fibre-optic cabling provides significantly higher transmission bandwidth and distance than copper cabling systems. Network backbones and campus links are typical applications and it is expected that networks of the future will demand fibre as the medium to the desktop. Blown fibre offers a future-proof indoor and outdoor cabling infrastructure, providing the flexibility necessary to meet the ever increasing requirements of communication networks.

## WiFi Networks

Networks rely upon fixed cabling links in order to communicate, however installing cabling is not always a practical solution. Business growth and development requires access to communications wherever users are located. We specialise in designing and installing high bandwidth wireless networks to provide solutions for both indoor and outdoor applications.

## Active Systems

With a cabling infrastructure in place, active systems such as VoIP and switches are needed to manage communications and information on the network.

Selecting the right equipment, product features and taking advantage of latest technologies allows for optimum network performance. We provide a consultative and independent approach to review the business requirements of your network in order to propose an effective solution.

## IP Surveillance and Access Security

With new technologies ever increasing, SSE Datacom now provides IP surveillance and access security. These two systems can be installed either as standalone products or can be installed jointly to provide an excellent security system.

The access system not only ensures building security, it also provides a means to monitor personnel, control staff permissions to secure areas and additionally allows remote access to areas such as IT.

## UPS and Back-Up Generators

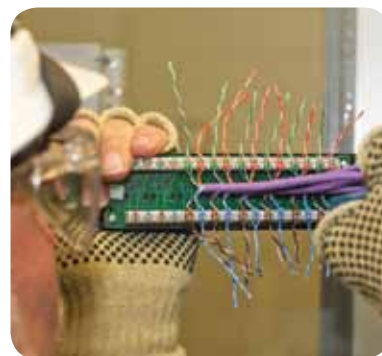
We have a wealth of experience and expertise in generator and back-up systems, providing the best solution meeting both immediate and future requirements.

## 24 Hour Nationwide Call-Out Service

The capabilities and resources within SSE Datacom allows us to provide a 24 hour, 365 days a year, nationwide call-out service.

These services range from;

- Fibre testing and repair
- UPS support
- Air conditioning, servicing and maintenance



- ➔ Safety
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# Railway Services

Page 1 Page 2

## RAILWAY SERVICES

Class leading experience in Railway Services enables SSE Contracting to deliver seamless and integrated solutions for all your rail project requirements.

With practical experience in all aspects of the railways estate, from ticket halls to switch rooms, our Railway Services teams can provide reliable M&E services.

- Planned preventative maintenance
- Station refurbishment
- Infrastructure re-wires
- Ticket halls and automated systems, vending machines, ticket barrier installations, lighting
- Call systems, hearing loop
- Lift works
- Heating, ventilation and air conditioning
- Fire alarms
- Plumbing
- Gas services
- Duct work/civils
- Pipe fitting
- Fume extraction
- Fuel/oil/air/lube installation
- Pit lighting
- Control, operation and maintenance of existing HV systems
- Design and build of new HV systems
- Shore supplies
- Car park lighting, CCTV and security
- 24 hour emergency call-out services



**SSE**  
Contracting

Mechanical  
& Electrical

Renewable  
Energy Services

Electrical  
Safety Testing

Lighting Services

E & I

Data &  
Telecommunications

1  
2  
Railway Services

High Voltage  
Services

# Railway Services

Page 1 Page 2

As holders of Principal Contractors Licence since 1999 (CAC), SSE Contracting demonstrates the highest standards of health, safety, environmental and quality controls required for working in this specialised area.

We can provide a valuable planned preventative maintenance solution that will assist you in complying with legal obligations and reduce the risks of equipment or system failure. Bespoke facilities management software can be utilised to provide you a tailor made programme incorporating all requirements.

Our dedicated on-call engineers will provide you with peace of mind for all your Mechanical and Electrical systems including HVAC, gas and water maintenance. In addition, our building maintenance services include drainage and pest control. A 24 hour Help Desk and a continually assessed network of specialist sub-contractors means that you can call on experienced professionals to maintain your railway services.

- Regular on-site safety audits
- Daily risk assessments
- Use of full range of Personal Protective Equipment (PPE)
- Hazards and risks controlled at worksite
- Dedicated 24 hour on-call engineers

Commitment to education and training has put us at the forefront of M&E contractors capable of carrying out work in a railway environment. We continually strive to strengthen our position by investing in new skills.

In addition to employing fully qualified and trained staff our expertise also includes PTS qualified engineers and the provision of safety critical staff where required.

We can help clients with Disability Discrimination Act compliance obligations by installing lift services, suitable call systems and refurbishing station facilities to ensure the required standards are fulfilled.

You can rely on SSE Contracting's thorough knowledge of industry standards and stringent safety procedures to ensure your project runs smoothly.

Our class leading Railway Services division will provide you with:

- In-house design and commissioning capability
- PTS qualified engineers
- Principal Contractors Licence for electrical, mechanical, HV, data and civils
- Provision of safety critical staff where required
- Senior Authorised Project Engineers
- Multi-skilled electricians
- Jointers (NERS Accredited)
- Civil engineering operatives
- Telecontrol electricians experienced in wired and radio controlled systems



➔ Safety

➔ Service

➔ Efficiency

➔ Sustainability

➔ Excellence

➔ Teamwork

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# High Voltage Services

Page 1 Page 2

## HIGH VOLTAGE SERVICES

SSE Contracting's High Voltage Services division provide a complete cost effective solution for all high voltage network requirements.

From the design and build of a new HV installation, to the provision of a planned maintenance contract, you can rely on SSE Contracting to safely deliver your projects, whether you own a single transformer or a complex supply network.

- Control, operation and maintenance of existing HV systems
- Design and build of new HV systems
- HV substation civil engineering, design and build
- Refurbishment, upgrading and maintenance of HV networks
- Testing and grading of system protection
- HV cable laying and jointing
- HV cable fault location and repair
- Notification of nationally reported equipment defects
- Diagnostic testing
- Consultancy
- CP, AP and SAP operational training and auditing
- Energy and supply quality monitoring and analysis
- 24 hour emergency call-out and emergency generation facility



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Data & Telecommunications

Railway Services

1

2

High Voltage Services

# High Voltage Services

Page 1 Page 2

The importance of maintaining the integrity of high voltage apparatus should never be underestimated. Inadequate design, safety management, or maintenance of high voltage plant and equipment can lead to injury and unplanned supply interruptions causing costly loss of production.

All our high voltage operational staff are trained and qualified in their respective field and are committed to providing you with value engineered solutions and the highest possible standard of service.

## Maintenance

SSE Contracting's Powersure maintenance agreements provide the backbone of a structured planned preventative maintenance package to fulfil HSE legislation for all oil, SF6 or Vacuum HV apparatus.

- Visual substation inspections are carried out at 6 monthly intervals
- HV plant asset management offers advice on manufacturer updates, operational restrictions and dangerous incident notification
- Routine maintenance commitments tailored to suit the site operational activities
- Additional non-intrusive techniques for infra-red and partial discharge surveys
- Safe systems of work and control of on-site operational switching activities via an interactive electronic network mimic system
- HV fault location with state of the art precision test equipment
- Supply, connection and on-site management of temporary power generation

## Consultation and Design

Our specialist HV engineers understand the benefits of matching the client requirements to HV technology delivering cost effective solutions.

- Energy saving, voltage optimisation and network rationalisation
- Protection discrimination grading analysis
- Fault level and cable size calculations
- Network design for simple supply systems up to complex N+1 tier 4 data centres
- Interface with site based EMS and BMS systems
- Full life cycle cost modelling
- Training for site based "Authorised Persons"

## Construction Projects

Our operational engineers manage and complete new build projects to safely deliver, on time and on budget. The company's financial position and staff resources give SSE Contracting the resilience to withstand business fluctuations throughout the project duration.

- Turnkey design and build projects
- Project management
- In-house civil construction facilities
- Directly employed HV craftsmen
- Assist client factory acceptance testing
- On-site commissioning and testing
- Full live site integrated service testing



➔ Safety

➔ Service

➔ Efficiency

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➔ Teamwork

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Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

Railway Services

1  
2  
High Voltage Services

# Contact Details

Cover

Services

Our Approach

Contact

Mechanical & Electrical

Renewable Energy Services

Electrical Safety Testing

Lighting Services

E & I

Data & Telecommunications

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## Did You Know?

In addition to Mechanical and Electrical Contracting, SSE can also offer:

- Energy Supply
- Multi-Utility Solutions
- Telecoms
- Data Centres