

UTILITIES : CASE STUDY 1

High Voltage Installation

SEC has maintained a strong working relationship with a major water company in Southern England since 1998. The company provides water to 420,000 people through a system of 8 major treatment works.

One project has been the installation of two 1500kVA Diesel generators and the LV/HV infrastructure feeding the Head Office and Operational Outbuildings. Although the existing electricity supply to the site is reliable, an alternative independent electrical source was required to provide stand-by generation in the event of failure. The £465K project was negotiated under a turnkey contract for all M&E services with SEC acting as Principle Contractor under CDM Regulations.

Previous major works include another high voltage installation contract, valued at almost £1million, for one of the water treatment works. SEC developed a design and build solution to completely upgrade and relocate the diesel generators and high voltage plant as the Client had environmental concerns about their existing equipment. In addition the existing HV network was reconfigured to give greater operational flexibility and reliability.

The SEC team installed the following systems :

- 2 x 1500 kVA 11kV diesel generators
- Associated HV distribution equipment
- New HV intake switchgear
- A new 11kV substation to provide services to other companies on the same complex

The work at the treatment works provides long-term system reliability and allows for future growth at the site.

SEC has also been integral in the development of the first of two raw water storage reservoirs which provide water in the event of a river pollution incident and also in drought conditions. The project involved installation of a high voltage underground cable network, 11kV circuit breaker board complete with site distribution transformers and switchgear.

SEC, Building Services Awards Major M&E Contractor of the Year (2004 and 2005) and Electrical Industry Awards M&E Contractor of the Year (2005), is part of the Scottish and Southern Energy Group and is committed to delivering projects on time, on budget and SAFELY.

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Quality and Safety

SEC is ISO9001:2000 Accredited and all Engineering Managers are IOSH (Institution of Occupational Safety and Health) qualified; evidence of our commitment to quality and safety.

- Fully Trained and Competent Staff
- Regular On-Site Safety Audits
- Daily Risk Assessment
- Use of Full Range of Personal Protective Equipment (PPE)
- Liaison with Client's Staff Affected by Work Activities
- Hazards and Risks Controlled at Worksite