



**SPE ELECTRICAL**



## **CASE STUDY 19: WYELANDS WTW AND STRENSHAM STW**

### **HV DESIGN AND SYSTEM STUDIES**

<b>Client:</b>	Costain
<b>Industry:</b>	Water
<b>Plant Type:</b>	WTW / STW
<b>Project:</b>	HV Design & Studies
<b>Contract:</b>	Lump Sum
<b>Date:</b>	2017

**“SPE was appointed to undertake HV design and studies activities for two critical sites on the Severn Trent water network.”**

SPE was contracted by Costain to carry out a series of HV design and power system study activities for a Water Treatment Works (WTW) and Sewage Treatment (STW) plants. These two new projects are important to Costain and the utility company Severn Trent, as part of the ongoing AMP 6 upgrade works, and of key importance to the local area.

SPE's scope for the Wyelands site is to carry out the HV cable sizing, review of the HV switchgear Vendors drawings, develop the HV protection design and produce an overall protection coordination study within ETAP for the whole site.

SPE's scope for the Strensham site is similar to the Wyelands site, but also involved reviewing the existing earthing configuration at the site and providing guidance on any site upgrades required.