# CASE STUDY:

## Railway Electrification Feasibility Study for a UK Power Company

## PROJECT BRIEF

LSTC were commissioned by a UK Power Company to complete a cable route feasibility study for a major rail electrification scheme on behalf of their client. We were responsible for identifying technically feasible underground cable routes between existing and potential new substation locations and potential trackside feeder station locations.

## LSTC'S APPROACH

In order to successfully meet the objectives of the study, the following approach was adopted:

- Preliminary environmental constraints mapping: areas where major environmental issues are present were avoided where possible when devising potential routes.
- Desk based study of potential routes utilising OS mapping, Google Earth, internet research, local knowledge of the area, and plans provided by an environmental consultant.
- Route maps and route evaluation sheets produced.
- Site visits undertaken by a senior engineer and assistant.
- Follow up to site visits: route amendments were made in light of findings from site investigation. Route plans and route evaluation sheets updated.
- Cost schedules produced for the feasible route options.
- Report written, concluding with preferred route option based on engineering constraints and cost.

## PROJECT OUTCOME

Successful completion of the study and delivery of the final report on time meant that LSTC were later commissioned by the client to complete 2 further similar studies.

Further information available upon request.