



CLIENT

Scottish Water

PROJECT

**New wastewater treatment works
(WwTW) - HV/LV supply**

SERVICES PROVIDED

- Design
- Principal contractor duties
- All civil works
- Cable pulling and jointing
- Traffic management
- Engagement with the DNO and other parties

LOCATION

Ardersier, Ross-shire

OVERVIEW

IUS was appointed by Scottish Water (SW) to provide a new HV supply to support the planned extension to the existing wastewater treatment works at Ardersier. Located on the outskirts of a conservation area, all works, including site traffic, had to be carefully programmed and managed to minimize the impact to the area.

DESCRIPTION

Following significant reinforcement of the local 11kV network by Scottish and Southern Electricity Networks (SSEN), a suitable point of connection was identified for IUS to utilise.

IUS designed, supplied, and installed the 3-core 150mm 11kV polymeric (LLDPE) cable circuit, from the overhead line point of connection, terminating at the HV switchgear controlling the 11,000/433V, 500kVA ground-mounted transformer. The substation apparatus was located within a new purpose-built GRP housing. An LV supply was provided from the switchgear to the SW kiosk within the site. All apparatus was tested by IUS prior to energisation.

IUS fulfilled the role of Principal Contractor for the works and undertook all cable joints and terminations. Active engagement was maintained with all third parties, including SSEN to ensure that the works were completed to their requirements and to client timescales.