

# Esh Winning Sewage Pumping Station

## Project Summary

Retroflo were engaged by **Esh/Stantec** to undertake the mechanical and electrical design at the initial I&D stage (now C&D) for a new three-pump sewage pumping station. The project included design, installation, and commissioning of the pumping station and a 60 kVA permanent standby generator with auto changeover facility. The installation enhances network resilience, ensuring a minimum of 48 hours of continuous operation during mains power outages, reducing the risk of flooding and pollution.

## Scope of Works

Retroflo provided a full end-to-end service, including:

- M&E design, installation, commissioning and documentation
- 60 kVA permanent standby generator with integral fuel tank (48 hours minimum operation)
- Electrical design including cable calculations, SLDs, cable diagrams and loop diagrams
- New GRP walk-in kiosk with intruder system
- Re-purposed 3 pump MCC relocated from Johnson St
- Three 15.0 kW VFDs
- Three 13.5 kW submersible sewage pumps
- 250 mm ductile iron pipework and associated valves
- Associated civils installation
- NICEIC 18th Edition inspection, testing and certification

## Results

- ✓ Strengthened network resilience with 48-hour backup capability
- ✓ Reliable sewage pumping with integrated VFD-controlled pumps
- ✓ Fully compliant M&E installation with NICEIC certification
- ✓ Turnkey delivery including civils, commissioning, and documentation

## Project Details

### Client

Esh/Stantec

### Project Value

£250,000

## Project Highlights

### Enhanced Network Resilience

M&E design, installation, and commissioning of a new three-pump sewage pumping station, ensuring uninterrupted operation during mains power outages and reducing flood and pollution risk.

### Reliable Power Backup

A 60 kVA permanent standby generator and integral fuel tank with automatic changeover to maintain service continuity.

### Turnkey Delivery

Retroflo completed all M&E and civils installation, commissioning, documentation, and NICEIC 18th Edition inspection, testing, and certification, ensuring a fully compliant and future-ready facility.

## Need Help With a Water Infrastructure Project?

Contact us today to discuss how Retroflo can support your next upgrade.

## Why Choose Retroflo?

With extensive experience in the water industry, Retroflo is a trusted delivery partner for complex electrical, mechanical and ICA upgrades. Our integrated approach ensures every component, from pumps to PLCs, is designed, installed and commissioned for long-term reliability and performance.

## Retroflo Ltd

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