

PROJECT CASE STUDY

Hustledown STW: Tertiary Treatment Upgrade

Project Details

Client

Northumbrian Water

Project Value

£00,000

Project Summary

Retroflo successfully delivered a turnkey upgrade at **Hustledown Sewage Treatment Works**, supporting the installation of two **Hydrok Mecana Pile Cloth Media Filter (PCMF)** units and a new feed pumping station.

This project was part of a strategic upgrade to improve final effluent quality and ensure compliance with tightening environmental discharge regulations.

Scope of Works

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

- Detailed Electrical & Instrumentation Design
- New MCC & Kiosk – Supplied and Installed
- Replacement Top Water Pumps
- System Integration Procurement & Management
- PLC & Telemetry Outstation Upgrades
- Tertiary Feed Pump Supply & Installation
- Pumping Station Pipework Installation
- Complete Electrical Installation
- System Testing & Commissioning
- On-Call Support Post-Commissioning

Results

- ✓ Fully compliant tertiary treatment solution
- ✓ Reduced energy consumption
- ✓ Future-ready MCC & control systems
- ✓ Delivered on time with no unplanned downtime

Project Highlights

Improved Final Effluent Quality:

Integration of Hydrok Mecana PCMF units ensured tighter solids removal and compliance with discharge permits.

Modernised Control & Telemetry:

New PLCs and telemetry outstations provide real-time monitoring, improved fault handling and remote access.

Efficient Pumping Solutions:

Upgraded pumps and pipework deliver reliable, energy-efficient operation under varying flow conditions.

Seamless System Integration:

Retroflo managed all interfaces, ensuring smooth integration with existing treatment infrastructure.



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

Tel: 0191 526 9830

Email: info@retroflo.com

Website: www.retroflo.com