



**INDUSTRY:** FOOD & BEVERAGE



**CLIENT:** NORTH BRITISH DISTILLERY

## Anaerobic Digestion Plant

### BRIEF:

The North British Distillery Company Limited undertook a major sustainability project to install a state of the art Anaerobic Digestion & Water Treatment plant. The project was split into three phases:

**Phase 1** comprised development of a process to mix process condensate and distillery spent wash to provide a conditioned feed in terms of pH and temperature suitable for treatment in a new Anaerobic Digestion (AD) Plant.

**Phase 2** was to expand the AD process and to install a water treatment plant to clean the AD effluent allowing approximately 40% of the water to be recycled with the remainder being discharged to the local sewer.

**Phase 3** was to install a gas engine to produce electricity from the biogas produced by the AD reactors

### PROJECT OBJECTIVES:

- Improved effluent quality
- Lower effluent charges
- Biogas used for electricity & steam generation
- Reduction in water usage
- Reduction in energy costs
- Remove load from plant

### THE SOLUTION:

- DPS provided full design of the Electrical, Control system
- Supply and install all instrumentation.
- Upgrade intelligent motor control systems
- Installation of control system
- Full electrical services installation
- Commissioning and handover of the system
- Ongoing system support contract

### PROJECT AREAS:



Automation solutions



Project management



Systems support



Electrical division



Turnkey systems

### SYSTEM TECHNICAL SOLUTION:

- ControlLogix® control systems use a common control engine with a common development environment to provide high performance in an easy-to-use environment Leverage the high-availability and extreme environment capabilities to meet your application needs
- iFIX is the industrial automation system of choice for many applications, ranging from common HMI, as simple as manual data entry and validation, to complex SCADA, such as batch, filtration, and distributed alarm management
- EtherNet/IP provides a single network for easy integration of the HMI, PAC and drive components
- Devicenet for legacy devices

### KEY HEADLINES:

- 8 off VSD Controlled Motors, ranging from 0.75KW to 37KW
- Intelligent MCC Networked Drives and Motor Controls
- Rockwell ControlLogix Controller
- Rockwell Remote I/O - Flex/IO, distributed around full site
- GE iFix Multinode SCADA, integrated with existing site SCADA;s (FIX32)
- Complete installation including ATEX inspections by our CompEx trained engineers.
- Full Instrumentation supply



**Rockwell Automation**

# DPS Group - One Integrated Solution - Case Study

## ABOUT DPS GROUP

DPS Group provides a range of integrated solutions across a range of sectors, delivering the highest standards of safety, quality, environmental compliance, and customer service.



Our customers benefit from the collaboration between our:

- **Systems expertise:** design, engineering and project management
- **Customer services:** electrical, instrumentation and control construction
- **Product strength:** strong brand partnerships and quality product

Our team at DP Source can recruit certified manpower to ensure your operations run smoothly and efficiently.

We operate a socially responsible business, providing employment opportunities for young people, and supporting the community we serve via our DPS Local Heroes programme.



## GET IN TOUCH

To set up an informal discussion about your project, email us via [info@dp-sgroup.co.uk](mailto:info@dp-sgroup.co.uk) or call 01592 772577.

DPS Group website: [www.dp-sgroup.co.uk](http://www.dp-sgroup.co.uk)  
DP Source: [www.dp-source.co.uk](http://www.dp-source.co.uk)  
Local Heroes: <http://localheroes.dp-sgroup.co.uk>

## OUR SERVICES



Control panels



Electrical division



Automation solutions



Instrument division



Analytical



Project management



Temperature probe



Pressure transmitter



Systems support



Systems support



Flow meter



Valve



Turnkey systems



Recruitment



DPS House, Lomond Business Park, Baltimore Road,  
Glenrothes, KY6 2PJ. 01592 772577.