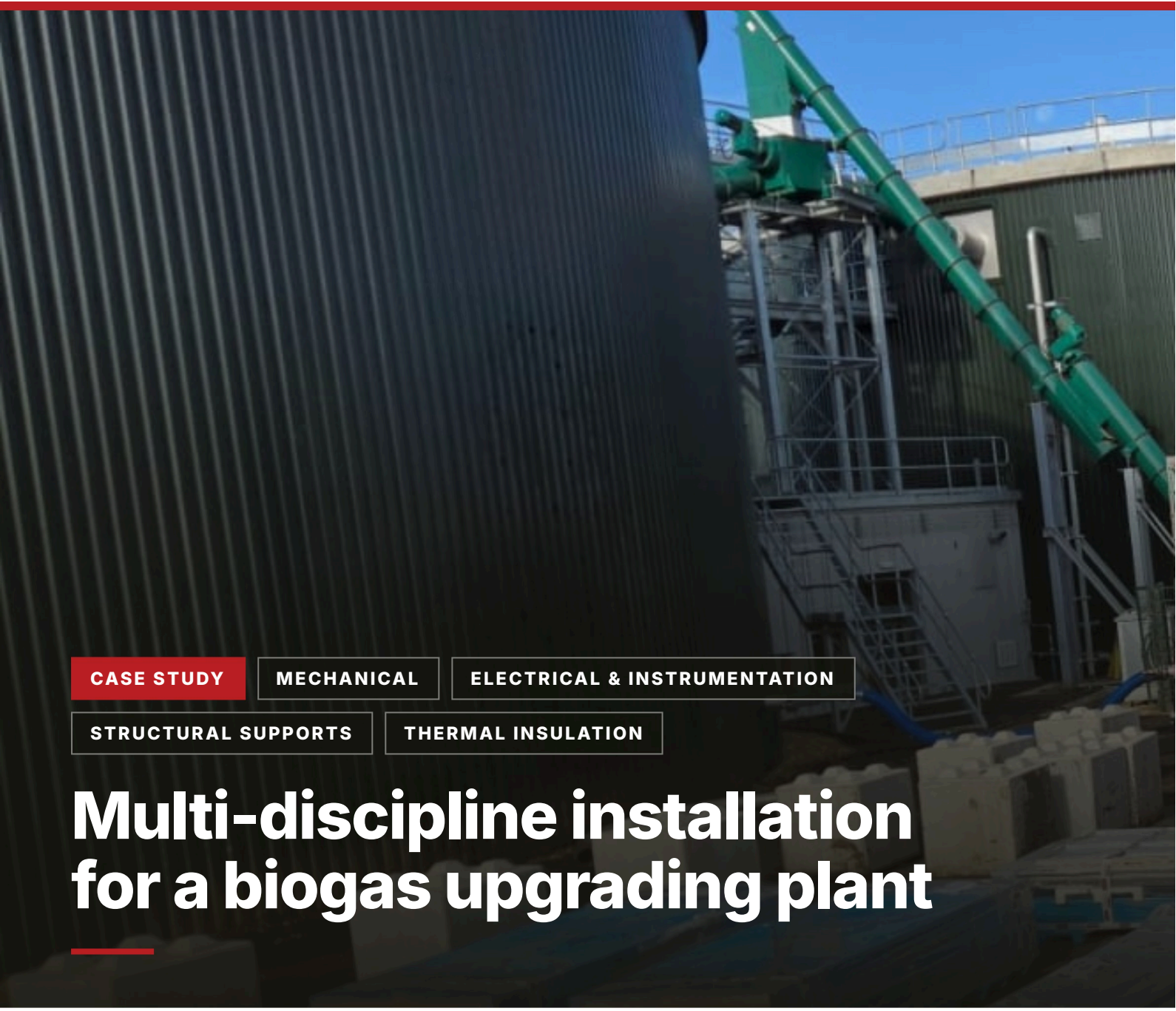


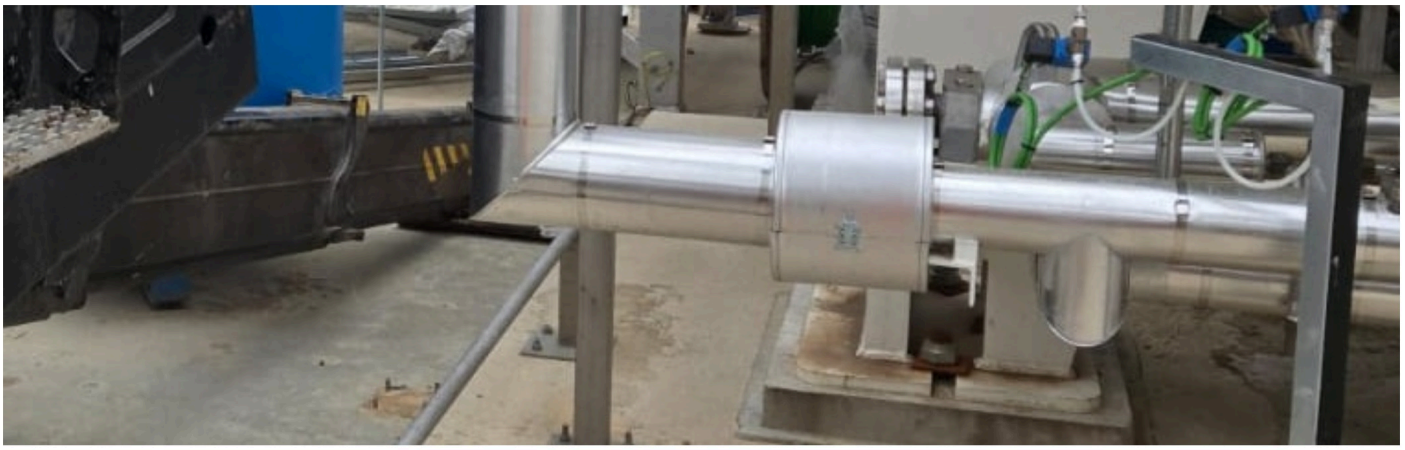
CASE STUDY | MECHANICAL | ELECTRICAL & INSTRUMENTATION | STRUCTURAL SUPPORTS | THERMAL INSULATION

Multi-discipline installation for a biogas upgrading plant

Project overview

PROJECT DATA

FACILITY **Biogas upgrading plant**	LOCATION **UK**
WORKS ON SITE **2025 to 2026, with additional scope continuing**	DISCIPLINES **Mechanical, electrical, instrumentation, structural support and thermal insulation**
CLIENT **Confidential**	PROJECT VALUE **Confidential**



01 Introduction

PEMEC delivered the mechanical, electrical, instrumentation, structural support and thermal insulation works for the installation of a biogas upgrading plant with advanced gas processing in the UK. Works began on site in 2025, with the main scope completed in 2026 and additional scope continuing on site.

02 Project objective

Build and install the mechanical and electrical installation, ensuring all work scopes are completed in a safe and controlled manner and in compliance with the site's CDM regulations.

This was achieved by placing current and competent personnel in all roles, including site management, QA and a Health and Safety Advisor. Key controls included continuous monitoring of all activities within the work scope, regular toolbox talks, re-evaluation of risk assessments and an open-door policy so any member of the team could raise concerns about the site.

03 Project scope

The installation scope included:

01 Risk assessments reviewed prior to tasks

02 Supporting structures erected in preparation for pipework and electrical support

03 All equipment installed as directed by the site plan

04 All electrical work installed

05 Isolation of key electrical components using lock out / tag out (LOTO)

06 Pipework installation

07 All pressure testing completed

08 All torquing and tagging completed

09 Punch lists completed and signed off by the client

04 Approach and delivery

Pipework inspection and rework

Pipework supplied from overseas required inspection and rework on arrival. The PEMEC team identified and catalogued all pipework, then re-measured, cut to size and reclaimed welds where needed.

Working around deliveries

With equipment delivery dates subject to change, the team stayed flexible and completed as much preparation work as possible ahead of each delivery.

Lifting operations

All skids needed to be lifted into position because of their size and weight. Two PEMEC team members completed a one-day assessment to operate the Manitou on site, supporting the site team and allowing work activities to be planned more precisely.

Planned lifts

A current and competent Appointed Person (AP) produced lift plans and method statements for the remaining lifting operations.

05 Handover

Punch lists have been completed and signed off by the client.

SERVICES DELIVERED

MECHANICAL INSTALLATION | ELECTRICAL & INSTRUMENTATION | STRUCTURAL SUPPORTS | THERMAL INSULATION | PRESSURE TESTING | LIFTING OPERATIONS

One accountable UK partner, from planning to site delivery.

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