

# Glasgow Recycling & Renewable Energy Centre

**Client:** Viridor  
**Location:** Glasgow  
**Start Date:** January 2017

## Outline Scope:

- Survey Pipework System
- Coded Welding
- Fabrication and installation of Pipework & Supports
- Compile all QA Documentation for NoBo 'sign off'
- Compile all supporting Test Packs
- Conduct all Pressure Testing



## Client Overview

The £154M Glasgow Recycling and Renewables Centre (GRREC) will handle up to 200,000 tonnes of waste per annum, diverting a massive 90% away from landfill.

The facility, one of the first in the UK to bring together a Smart-Recycling Recycling Facility (S-MRF), Anaerobic Digestion (AD) and a Advance Conversion Facility (ACF) which heats the waste producing a synthetic gas which is used to power up to 20,000 households and heat the equivalent of some 8,000 homes.

After suffering significant delays to the programme, Viridor awarded PJD the contract to rectify and complete the remaining installation.

## Project Scope

Our Management team systematically surveyed the 16 systems across the three units and turbine. Some 1800 isometric drawings were checked to qualify (a) what works had been carried out (b) had the work been carried out to correct specification and (c) did our findings match the limited legacy QA documentation which was available at the time.

Our survey produced a very specific completions Scope of Work which amounted to significant rework and completion to the Main Steam, Steam/Condensate, Condensate, Thermal Oil, Feed Water, Recovered Water, Cooling Medium, Plant Air, Instrument Air, Flue Gas, Fuel Oil, Treated Water pipework and supporting systems.

In addition to the works above PJD compiled the pre-requisite Quality Documentation which allowed in excess of 175 Pressure Tests to be carried out, witnessed and signed off by the client and Notified Body.

2019 sees a reduced the team supporting the Hot Commissioning activities at site.

## Key Performance Indicators

Weld Repair Rate: 0.30% of ~5000 Butt Welds

