



## GWE - DRIFFIELD

CLIENT: GWE BIOGAS  
G2G: MAY 2022

### PROJECT OVERVIEW

*Located at GWE Biogas' existing AD site, the new BtG plant processes approx. 1000Nm<sup>3</sup> of Biogas, injecting 600scmh into the NGN MP main via a 3.8km 250mm PE100 pipeline. High levels of H<sub>2</sub>S are removed from the the Biogas using a dedicated CSO Sulphur removal system before being upgraded by a Pentair membrane BUU.*



### KEY CHALLENGES

*The main challenge faced on this site was the long below ground pipework distance between the BUU and the GEU. It was vital to ensure the Biomethane was hot when entering the GEU to allow propane vaporisation. This problem was solved by using a bespoke below ground pipework gel insulation system. The site design also took in account future proofing for a bolt on CO<sub>2</sub> liquefaction system and CNG truck filling.*

### CSL DESIGN SCOPE

- Integration of blower, Pentair membrane BUU with Orbital GEU & CSO Sulphur removal system.
- Mechanical pipework & communication system
- Provided air compressors LVDB, and all electrical and communications cabling.
- Export pipeline to NGN MP

### CSL PM SCOPE

- Programme Management
- NGN tracker management inc GL5/G17
- HAZOP and DSEAR
- G2G commissioning management
- GIRS management
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