

Project Profile

Bio Substitute Natural Gas (BioSNG) Pilot Plant



Rockwell Automation PlantPAX proved to be an effective development environment for the APP application, given its flexibility and scalability. An ideal process control platform that allows seamless integration to a wide range of pre-developed "Process Objects" enabling quick, easy and consistent development. With built in application templates, a comprehensive library of Logic and HMI objects and Engineering Tools. PlantPAX is a modern and cost effective DCS solution that will easily allow APP to scale up from their pilot plant process to a full industrial scale facility, whilst reducing the cost of future software development and ongoing costs of ownership.

adi Automation provides:

- Complete electrical solutions available from a single company
- Vendor independence; able to use all major component suppliers
- Bespoke system design to suit individual customer's applications

Get in touch:

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Customer

Advanced Plasma Power

Location

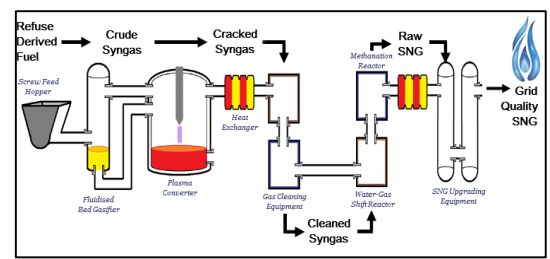
Marston Gate, South Marston Park, Swindon, Wiltshire.

The Opportunity

This R&D pilot project aimed to demonstrate the ability to convert waste to BioSNG for the first time using the existing APP Glasplasma facility and Methanation set. The system needed to be scalable and flexible to facilitate future upscaling and commercial roll out.

Value

Control System £450K, adi Projects Value: £1.5M



The Solution

Provide Rockwell, Allen-Bradley ControlLogix for control, FactoryTalkView Site Edition Client/Server SCADA developed on the PlantPAX DCS platform and FactoryViewTalk Historian Client/Server historian coupled with Factory TalkView VantagePoint Business Intelligence web based Reports Server.

The Benefits

- A cost effective, readily maintainable integrated Control System platform that was able to help provide the flexibility needed at the Pilot Plant stage of BioSNG development and lay down the control standards for future larger scale facilities.

System Components

- PLC's: Allen-Bradley ControlLogix 1756-L71S PLC
- SCADA: FactoryView Site Edition Client / Server Architecture
- Historian: FactoryView Historian Client / Server Architecture
- Network1: Copper Star Topology (SCADA)
- Network2: Copper Ring Topology (Remote I/Os)
- Panels: Distributed Panels