

# DESIGN OF BIOFUEL PRODUCTION FACILITY

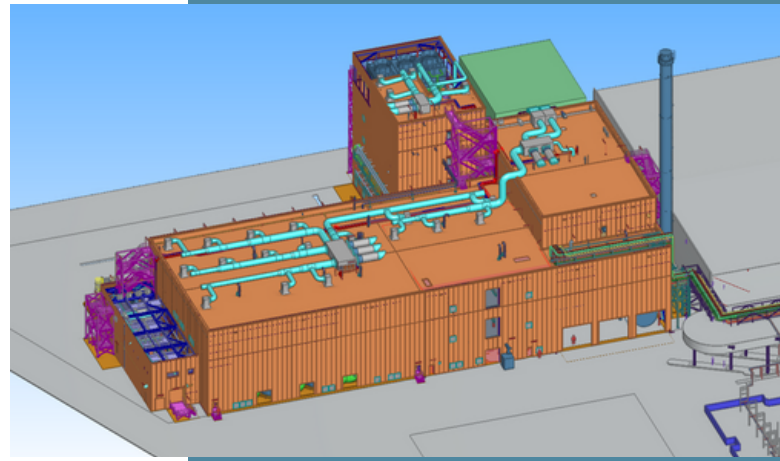
**Settore:** Clean Energy

**Anno:** 2020

**Luogo:** Amsterdam (Olanda)

**Cliente diretto:** Argent Energy

**Cliente finale:** Argent Energy



## GOALS

The assignment consists of the **development of basic and detailed engineering and procurement assistance for a biofuel plant**. The scope of work also includes coordinating interfaces with the structural engineering company and advising the end customer on contract strategies, procurement and construction contracts. A pre-feasibility study and some chemical reaction guidelines from a pilot plant are the starting point for the development of the project.

## MAIN ACTIVITIES

- Safety studies (HazId, HazOp, LOPA, Explosion Risk Analysis)
- Process Engineering
- Plant layout definition, mechanical engineering of static equipment and rotating machines
- Piping engineering including definition of piping classes and stress analysis
- Coordination and interface with the company responsible for the development of structural engineering using integrated modelling tools
- Electrical engineering of the system from the medium voltage ring to the utilities
- Control and instrumentation system engineering
- Interface with mechanical packages and interface with other plant units.

## PROJECT DETAILS

- Definition of Design Standards
- Explosive Atmospheres
- PED
- Project co-ordination through integrated modelling (Cadmatic and Tekla)
- Intelligent P&Id
- Cable routing integrated into the 3D model
- 3D laser scanning

