



PROJECT SHEET

Biodiesel Plant

Carnot closely supported an Australian company in the design of a Bio Diesel Plant. The plant is designed to operate at 150 megalitres per year on a range of feed stocks (both low and high FFA content). The support comprised of a comprehensive plant design, with risk assessment, procurement, documentation and project management. Carnot staff worked at the client's office in Australia and visited the US to work with their R&D personnel. The team was made up of mechanical and materials engineers all experienced with process and equipment development.

PLANT DESIGN

Carnot staff were responsible for the fundamental heat and mass balance calculations upon which the overall design and equipment selection was based. They also designed the plant layout pressure vessels and pipe work as well as specification and selection of all equipment including pumps, compressors, valves and instrumentation.

RISK ASSESSMENT

Carnot staff managed the technical risk assessment of the plant: for example running the HAZOP meetings and assuring compliance with Australian and overseas codes and standards.

PROCUREMENT

The team set up the full procurement system for the project which included: policies and procedures, templates and QA/QC requirements.

DOCUMENTATION

The document control system for the project was set up and administered by Carnot.

PROJECT MANAGEMENT

Carnot was invited to provide project management for the project and in this role team members set up the project time lines, project budget, task descriptions and task allocations.

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