



IRFT



PROJECT DETAILS

CLIENT: Associated British Ports

LOCATION: Immingham Renewable Fuels Terminal,
UK

VALUE: £1m

DURATION: 12 Months

PROJECT: IRFT

The Immingham Renewable Fuels Terminal is the world's largest dedicated biomass handling facility. The new facility uses continuous ship unloaders to offload wood pellets from vessels on to a conveyor system which moves the pellets through the Associated British Ports (ABP) Immingham facility into storage silos and from there onward to a train loading facility. The biomass is loaded onto trains for transport onward to Drax power station.

The pellets have been discharged using ABP's bespoke continuous ship unloaders, which feed the product onto a conveyor system connected to Immingham Renewable Fuels Terminal (IRFT), where it will be stored in eight silos, each capable of holding 25,000 tonnes of biomass, before being loaded onto trains for the final part of its journey.

Technica were chosen to provide the functional safety design, instrumentation design and the Emergency Shutdown and Terminal Control Systems.

Technica were also responsible for the design, manufacture, configuration and site commissioning of the Emergency Shutdown and Terminal Control Systems.

TECHNICA PROVIDED A RANGE OF DESIGN AND ENGINEERING SERVICES ASSOCIATED WITH:

- Detailed Design
- Equipment Specification
- Third party interfaces. MV drivers, LV drives, continuous ship unloaders, Train loading
- Contribution to various multidiscipline and vendor design reviews including, P&ID, Hazop and LoPA
- Control & Instrumentation
- Functional Safety, including Safety Requirement Specification and SIL calculations
- System P&ID's
- Emergency Shutdown and Terminal Control Systems (Design, Build, software configuration)