

# HEAT TRANSFER SOLUTIONS

## Design & Manufacturing Capabilities

With an impressive track record spanning several decades, Glacier Energy is the go-to partner for heat transfer solutions.

We offer a full turnkey service comprising the design, manufacture, repair and maintenance of heat transfer equipment, including full failure analysis to help restore assets to optimal working condition, saving **significant time and money**.

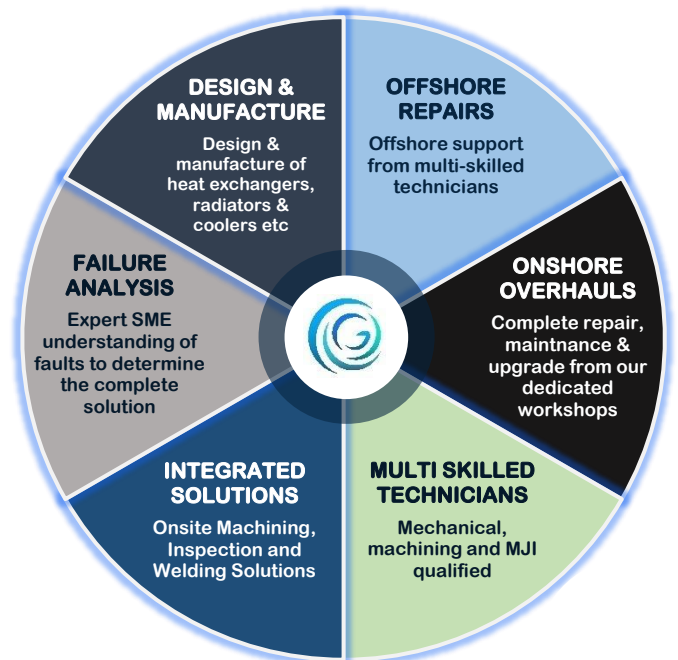


## Design & Manufacturing Capabilities

We provide standardised off-the-shelf equipment, pioneering & bespoke new-build solutions and the reverse engineering for obsolete units, to meet exact technical specifications. As one of the only dedicated design & manufacturing companies in the UK with specialist thermal and mechanical engineering capabilities, we support clients across the entire energy sector including renewables and alternative energy, as part of our collective efforts to achieve net zero by 2050.

**We design & manufacture the following:**

- Shell & Tube Heat Exchangers
- Air Cooled Heat Exchangers
- Pressure Vessels
- Pig Launchers & Receivers
- Pressure Containing Equipment
- Radiators

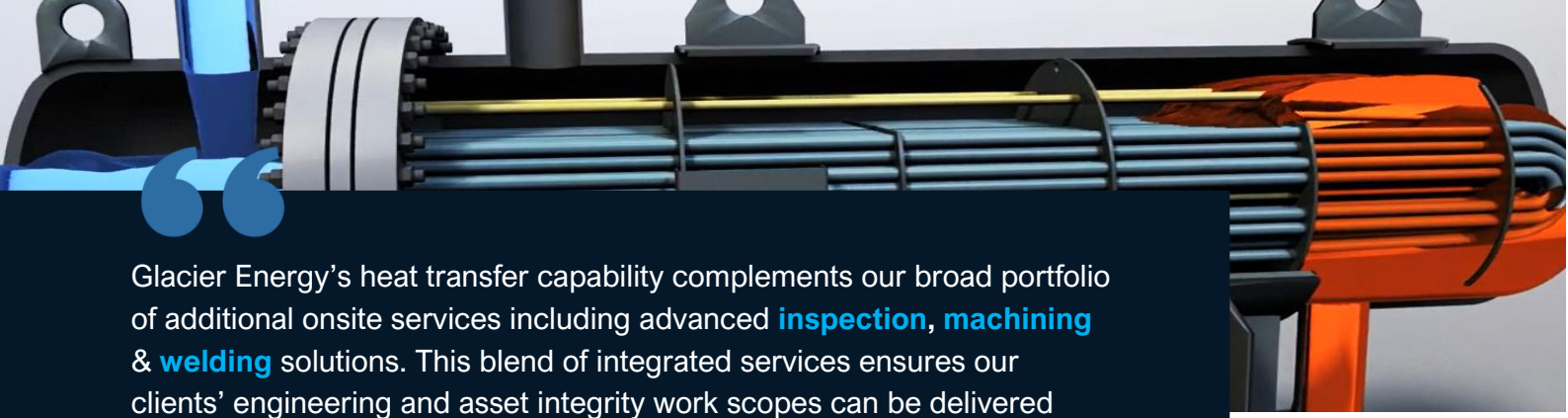


## Design & Manufacturing Facility

Our workshop is equipped with a comprehensive array of state-of-the-art equipment, enabling us to meet all tasks associated with the manufacture & repair of heat exchangers and pressure vessels.

- Fully equipped design suite
- Over 3,500 Procedure Qualification Records
- Electroslag Cladding with Group Hot Wire TIG capability
- ASME Div I (U1) & Div II (U2) certified
- ISO3834 certified





Glacier Energy's heat transfer capability complements our broad portfolio of additional onsite services including advanced **inspection, machining & welding** solutions. This blend of integrated services ensures our clients' engineering and asset integrity work scopes can be delivered more safely, reliably and cost-effectively, all through a single provider.

## Track Record

Below is summary that showcases the diversity of design and manufacturing projects we have delivered.

Client	Work Scope/Equipment
Petrofac Facilities Management Ltd	Supply of 2 AX30-PW Plate Heat Exchangers
Petrofac Facilities Management Ltd	Supply of an E5024 Production Pre-heater
Premier Oil plc	Design and manufacture of Emergency Generator Radiator assembly with an upgraded fan/motor
Linsey Oil Refinery	Replacement of Shell and Tube Bundle in carbon steel
Petrofac Facilities Management Ltd	Design and manufacture of Pig Launcher and Receiver
PX Group Ltd	Design and manufacture of replacement Shell and Tube Bundle with duplex material
Repsol Sinopec Resources UK Ltd	Failure analysis and design & manufacture of an E6 Gas Cooler
Essar Oil UK Ltd	Design and manufacture of replacement ACHE bundles in low temperature carbon steel
BP Kinneil LNG	Design and manufacture of an R410A HP Economiser - 3000mm I/Dia x 6800mm Tan/Tan x 40mm Thick. Shell/Heads EN10028-7 1.4401/1/4404 (316/316L), 34,000 kg
WorleyParsons Ltd	Replacement of upgraded Motor Coolers in titanium
PBS by Ponticelli	Design and manufacture of 4 Shell and Tube Heat Exchangers
MSL Heat Transfer Ltd	Design and manufacture of Generator Cooling systems in carbon steel
BP plc	Design and manufacture of Pressure Compressor Suction Scrubbers
Jacobs	Design and manufacture of Pig Launcher and Receiver in 316L stainless steel
National Grid plc	Design and manufacture of 2 x Compressor Suction Gas Separators - 2800mm I/Dia. x 6000mm Tan/Tan x 75 mm thick. Shell EN10028-3 P355NL2, 62,000 kg

## Repair and Overhaul

In addition to our design and manufacturing expertise, Glacier Energy has a wealth of experience in the provision of repair and refurbishment services to drive down the cost of ownership and mitigate operational risks to reduce life cycle costs. Using our in-house capability and technical expertise, we can offer a fully integrated repair and refurbishment solution comprising of advanced inspection, onsite machining and welding services.

Glacier Energy can re-engineer critical operational assets that are inefficient, but still in operation. Through our ability to reverse engineer and refurbish key components & equipment, we help clients save significant costs by extending the life of the asset and ensuring there is no need for a shut-down.



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