GREEN’S - WHO WE ARE...

Energy from Waste - Biomass - Conventional fuels - Marine boilers

• Worldwide supply from wholly owned UK design, manufacturing and engineering facility

• Founded in 1845 in Wakefield, UK

• Ongoing investment to grow and develop facilities and services

• Reference list of over 2,000 projects

• 24/7 global aftermarket services
2017 WAS A RECORD YEAR FOR GREEN’S.
Here are just some of the highlights...

We supplied products weighing over 3,000 tonnes consisting of almost 30,000 tubes totalling 300,000 metres long.

Our furthest delivery was almost 17,000 km to Australia and our nearest was 100 m from our factory.

We recruited for roles across the business including production, sales, support, design and business development.

We were shortlisted for a major manufacturing industry award.

Our turnover was up 17% to over £11m.

Our business outside of UK & Europe increased by more than 50%.

Our repairs and service team have worked in 14 countries across 4 continents and replaced more than 50,000 tubes.

Reaccredited for ISO3834, EN 1090 and ISO9001 (2015)

Use of STAAD.Pro means we’re cutting the structural weight of systems by 19.8%. We meet all international standards including AISC and Eurocode. Our Bentley autopipe and FEA system allows optimisation of all our designs.

Our sales team have sold more than 4,200 spare parts to 355 companies in 40 countries.

We manufactured more than 11 million fins and 90,000 tubes.

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GREEN’S

Manufactured products – designed and engineered

• Economisers and flue gas coolers – finned and plain tube
• Air-heaters
• Re-heaters / superheaters
• Waste heat boilers
• Exhaust gas boilers
• Marine boilers
• Boiler components
• Finned tubes

Aftermarket

• Service
• Site repairs
• Site installation
• Inspection
• Spares

ABOUT GREEN’S: WHAT WE DO

Fully integrated experienced service proposition from full economiser system to spare parts...
MARKETS

Bespoke products and services for energy, industrial, petrochemical and marine sectors
ABOUT GREEN’S: OUR MARKETS AND CUSTOMERS

MARINE

Customers include:
• Damen Shiprepair Brest
• Kuwait Oil Tanker Company (KOTC)
• John Samonas
• Carnival (P&O Cruises)
• Irish Ferries
• Northern Marine Management
• V-Ships
• Hapag Lloyd

ENERGY

Customers include:
• Jersey Waste
• LondonEnergy
• Drax
• MWH
• Grimsby Operations
• Viridor
• ENGIE
• Shotton Paper

INDUSTRIAL APPLICATIONS

Customers include:
• James Cropper
• Inovyn
• Palm Paper
• Ol Glass
• BASF
• British Sugar
• TATA Steel
• Nalco (Ecolab)
• PX Limited
OUR FACTORY: MANUFACTURED IN WAKEFIELD – DELIVERED GLOBALLY

- In-house design and engineering
- Steel H plate finning machines
- Finning, bending, machining and general fabrication
- Accredited to ISO 9001 and 14001, ASME S, U & R
- Manufacture to all Marine Classification Societies
• Fully supervised service and repair teams
  - undertaking working globally in port & at sea
• Boiler service, inspection and detailed reporting (water-tube and smoke-tube, fired and waste heat)
• Boiler repairs – all makes and models
  - Full/partial re-tube
  - Tube repairs
  - Cracked tube plate
  - Refractory
  - Coded welding
  - Shell / casing repairs
• Installation of boilers, economisers, superheaters and heat recovery equipment
SERVICE, SPARES & REPAIRS: REACTIVE AND PROACTIVE, 24/7

- Pipework design, fabrication and installation
- Burner and controls breakdown and service
- Spare parts for all makes and models of boiler/burner and steam raising equipment.
- Design and engineering services
- Root cause and failure analysis
SPARES: **ANY PART, ANYWHERE - FAST**

- Marine boiler/burner and associated spares
- Supply spare parts for almost any make or model
- Global delivery
- Fast turnaround of quotations
- Dedicated team of technical sales engineers
- Currently supply to over 450 marine customers
- Comprehensive stock of commonly used parts
RECENT PROJECTS: **JOHN SAMONAS & SONS LTD**

- Samjohn Dream – 206,610 dwt Bulk Carrier – built 2012
- Full retube of Aalborg Mission XW EGB – frequent repairs
- Manufacture 27 H-Fin Coils (16 days)
- Installation (10 days) in Drydocks World Dubai
- LRS Class approved

John C Samonas says: “Green’s previously worked on Samjohn Liberty and we were impressed by their problem-solving skills and their ability to complete projects in a way that fits in with our tight schedules.”
RECENT PROJECTS: MATRIX SHIP MANAGEMENT – MV OSCAR WILDE

- Oscar Wilde – Car Ferry
- Repairs to SUNROD oil fired boiler (CPBD-30)
- Manufacture:
  - pin-tube elements
  - furnace crown, floor and shell
  - burner throat and mounting flange
- Installed during dry dock and completed at sea (as further defects found following inspection)
- LRS Class approved

Filip Lefever says: “Green’s was chosen out of 3 quotations, not just because they were the cheapest. The quotation and scope were explained very detailed, with no hidden costs afterwards. There were some challenges during the job but they were handled very professionally.”
RECENT PROJECTS: **CARNIVAL UK - BRITANNIA**

- Britannia – Cruise Ship
- Built at Fincantieri, Marghere yard - Italy
- 6 x marine exhaust gas boilers, built for UK’s largest Cruise ship, launched in 2015
- 18 Vessels in the Carnival Group with Green’s exhaust gas boilers/economisers installed
- We provide service, support and spares to Carnival
RECENT PROJECTS: CARNIVAL UK - ORIANA

- Oriana – cruise ship, launched 1995
- Green’s original oil-fired boilers and economisers fitted
- Oil fired boiler tube plate cracks and tube repairs
- All repairs carried our during 2-week cruise
- Repairs team took care of all repairs, consumables, NDT and liaison with LRS on behalf of Carnival.
- Boiler back in service earlier that estimated
RECENT PROJECTS: **KUWAIT OIL TANKER COMPANY**

- Full exhaust gas boiler inspection and detailed report following an incident on AL SHEGAYA
- Design and manufacture optimum efficiency H-Fin exhaust gas boiler retrofit coils
- Installation in ASRY shipyard, Bahrain
- Supply EGB monitoring and diagnostic system
- Repeat order for sister vessel; AL SALHEIA
- Supplied commissioning assistance and training
RECENT PROJECTS: **DAMEN SHIPREPAIR BREST**

- Service, repair and overhaul of steam boiler and associated equipment for Class surveys
- Numerous LNG Tankers
- Normally short-notice mobilisation
- Fully supervised Green’s teams of 10-35 engineers
- Boiler tube repairs
- Coded weld repairs to steam pipework
- Valve overhaul
- Boiler, economiser and condenser cleaning
- Refractory repairs
- Reactive work as it is found

Frederic Broudin says: “Green’s team is both responsive and proactive, so we have no hesitation in using them for our clients who need a high quality service provided by experienced and qualified professionals to ensure their vessels are back at sea, working at optimum levels as quickly as possible.”
A typical year sees them travel 260,000 miles around the world installing, repairing and inspecting almost 300 boilers, economisers and waste heat recovery systems and supplying more than 6,000 spare parts to customers globally.

Whether it’s supplying an emergency spare part for a boiler on a cruise ship in the Caribbean, urgent repair of a super critical boiler in a power station, last minute inspection of a boiler during a plant’s outage or installing pressure parts manufactured in our factory for a vessel in port or at sea, Green’s aftermarket team is renowned for going the extra mile to ensure our customers’ boilers and waste heat recovery systems are kept operational and perform at optimum efficiency.

Potential problems found and associated recommendations are made as part of a detailed technical report so that plans can be put in place, unnecessary cost and downtime is kept to a minimum and boiler life is extended. As well as systematic boiler inspections, we offer asset integrity assessment, failure analysis, chemical cleaning, repair and a variety of other services that can be tailored to meet specific needs.

We provide inspections, surveys and maintenance programmes to identify current and potential problems with our customers’ boilers and auxiliary equipment so that they can be addressed to avoid unnecessary cost or outages and operate at optimum efficiency.

For emergency situations, our team is available 24/7 to keep our customers’ boilers, waste heat recovery systems and ultimately their business up and running. Our swat team of repairs, service and installation specialists provide support around the world.

Regardless of where your equipment is installed, on land or at sea, our team can be mobilised to meet your proactive or reactive needs for support. We have the widest range of spare parts, covering all makes and models of boiler and burner from an air pressure switch to replacement water level controls and everything between.

Our repairs team are experts in repairing virtually any make and model of marine and land boiler or burner.

A single point of contact for all their boiler and waste heat recovery system needs.

We guarantee to provide quotes for your spares requirements within two working days.

Our spares team ensures that every delivery is made to meet customers’ specific needs using a wide range of courier services and, if required, even taking it to customers’ premises themselves.

People

01

Our talented aftermarket team combines a wide range of skills and qualifications and has over 250 years’ experience in providing service, repairs and spares into the steam and waste heat recovery market.

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