

# Reburnering with hydrogen ready burners at a food manufacturing facility

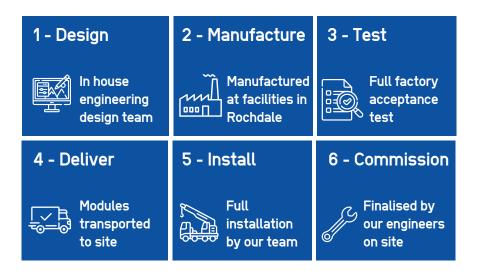
Helping a food manufacturer achieve fuel savings of 13.5% and reduce electrical energy consumption by 60% with a hydrogen ready solution

# The problem

- Our customer was suffering from depleting energy efficiency from their 45 year old 16 tonne twin furnace steam boilers
- With NOx levels at 130mg/ Nm3, changes were needed to achieve better efficiencies
- To goal was to reach less than 80mg/Nm3 in NOx emissions

## Our approach

We offered a turnkey solution: a fully modularised plant room built at our facility in Rochdale, transported, then installed on site within 5 days.









# Our solution



### Full burner and control system refit

2 TDG6 hydrogen ready burners with o2 trim, boiler control, boiler sequencing and water level control



## **NOx reduction without FGR** Reduction in NOx levels to 72mg/Nm3 at 3% without requiring FGR



### Hydrogen ready solution

Flexibility to run their plant on any combination of natural gas and hydrogen.

## **Benefits**



13.5% fuel savings

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60% less electrical energy consumption



Reduction of CO breakpoint to ~0.5%

## **Customer feedback**

"Dunphy have been brilliant from start to finish. This is a huge step forward for us and gives our plant the flexibility to run on a wide range of fuels - we're delighted with the solution and the excellent service provided" Engineering Manager, Food Production Plant

## Get in touch

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