

# FOOD MANUFACTURER - GROCERY DIVISION

South Yorkshire, United Kingdom



## BENEFITS

- ▶ Projected payback in 1.8 years
- ▶ Heating of buildings from 100% recovered heat
- ▶ Estimated annual savings of £110,000
- ▶ Approximately 7.5 million kWh of gas savings per year
- ▶ Greenhouse gas reduction of over 1750 tonnes each year

## FLU-ACE Boiler Exhaust Waste Heat Recovery

Thermal Energy International (TEI) implemented a FLU-ACE Condensing Heat Recovery System on the facility's two boilers to reduce gas consumption and greenhouse gas emissions. The company's *Green Matters* team successfully applied for money to install the FLU-ACE system as part of a major energy reduction project in order to reduce their escalating gas bill. Lee Houghton, Site Environmental Co-ordinator explained: ***"Thermal Energy International is so confident that the upgrade will save us money that they have guaranteed us payback of our investment in 1.8 years, or they will pay us back the difference!"***



Prior to the installation of FLU-ACE, the site was using 70% of its total gas consumption for steam production as well as to heat the factory and office space. The waste heat recovery system now makes use of the otherwise wasted heat for office heating. Site Services Manager, Jamie Rhodes, who managed the installation explained: ***"Our engineers are now going to be kept warm this winter from 100% recovered waste heat"***.

The benefits of the FLU-ACE system are immediately observed as explained by Lee: ***"In the first week of it running, the Flu-Ace recovered 39,000kW/h worth about £800. And that is in the middle of summer when we are not using the heating. It could be more than triple that amount***

***in the middle of winter!"*** It is estimated that Flu-Ace will save the facility £110,000 per year, which is approximately 7.5 million kWh of annual gas savings. The site will now be releasing 1750 tonnes of carbon dioxide less per year, a significant step towards greener plant operations.