

Food & Beverage



BENEFITS

- ▶ Projected payback in 1.8 years
- ▶ Heating of buildings from 100% recovered heat
- ▶ Estimated annual savings of £93,000
- ▶ Greenhouse gas reduction of over 1,750 tonnes/year

FLU-ACE® Boiler Exhaust Waste Heat Recovery

Thermal Energy International (TEI) implemented the 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. The Site Environmental Coordinator 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. The Site Services Manager 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. It is estimated that Flu-Ace will save the facility £93,000 per year, which is approximately 25,600 MMBtu of annual gas savings. The site will now be releasing 1,750 tonnes of carbon dioxide less per year, a significant step towards greener plant operations.