

MUCKAMORE ABBEY HOSPITAL

Belfast, Ireland



BENEFITS

- › Improved boiler efficiency by 11.39%
- › Heating return line water temperature increased from 78°C to 82°C
- › Savings of approximately £40,000 per year
- › Reduced carbon footprint of 151 tonnes of carbon per year

FLU-ACE® Boiler Plant Waste Heat Recovery

A FLU-ACE® waste heat recovery system was installed at Muckamore Abbey Hospital, Belfast, reducing its boiler exhaust temperature in the flue from 230°C to 50°C. This has resulted in improved boiler efficiency by 11.39%.

The return water on the site heat loop has been preheated from 78°C to 82°C prior to return to the 4 Mw medium temperature hot water boilers. This massive reduction in energy has resulted in extrapolated savings of approximately £30,000 per year and a reduced carbon footprint of 151 tonnes of carbon.

The FLU-ACE® system recovers waste heat energy from the flue gas exhaust of 2 hot water boilers. The recovered “free” energy has been utilised for return water pre-heating and used for ward heating.

The system was designed by Kemco Inc in Florida USA using technology developed during the last oil crises. The technology has been refined and improved over resulting in the state of the art technology installed in Muckamore Abbey. The project was a total turnkey installation, installed and commissioned before project handover.



An Innovative Technology Company Providing
Energy and Emission Reduction Solutions

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