



**Hargreaves**  
Industrial Services

## Operation & Maintenance Support Renewable Energy & Energy from Waste



**Client** Scottish & Southern Energy  
**Location** Ferrybridge 'C' Power Station  
**Services** On-site Receipt and Handling of Biomass

Ferrybridge C Power Station comprises four 500 MW generating sets, using 800 tonnes of coal and 218 million litres of coolant water per hour. As well as the four main units, the station has two gas turbines which produce an extra 34 MW combined. These are used for extra generating capacity and in black starts, as large power stations often need external electricity to start up if the main units are off line. Coal is delivered to the station by railway and road transport and until the late 1990's, by barge. The station has two 198 m (650 ft) high chimneys and eight 115 m (377 ft) high cooling towers, which are the largest of their kind in Europe.



Ferrybridge C has now had an operating life of over 40 years. Since 2003, the station has established itself as a market leader in the effective co-firing of biomass. In the 2002-2003 tax year, the station was responsible for 80% of all co-fired renewable energy in the UK, resulting in a 3.5% net reduction of the plant's greenhouse gas emissions.

**Hargreaves Industrial Services** through their divisional materials handling contract company – **Norec** – are responsible for the receipt, handling, storage and loading of the biomass at Ferrybridge, twenty-four hours a day, seven days a week.

The biomass is delivered to Ferrybridge by **Hargreaves Transport Services** and once on-site Industrial Services supply the machines and drivers to handle the material and load into the direct injection hoppers which mix the biomass with coal to be burnt as part of the generation process.

The contract involves the management of stringent health and safety standards and sustained high levels of housekeeping in what can be an extremely hazardous environment.

