

NEWS RELEASE



ERG delivers FGD (flue gas desulphurisation) system for Ferrybridge Carbon Capture project

August 2011. Horsham UK based ERG (Air Pollution Control) Ltd has installed a £34M flue gas desulphurisation unit to Ferrybridge power station as part of a carbon capture pilot project.

The ERG system acts as a final flue gas “polishing” stage to reduce SO₂ and particulate concentrations to required levels before the flue gas is passed to a downstream “post combustion carbon capture” unit which will remove 100 tonnes of carbon per day from the flue gases emitted by the Ferrybridge coal fired power station.

The unit was supplied to Doosan Power Systems, appointed by Ferrybridge owner, SSE (Scottish and Southern Energy), for the engineering design and operation of the carbon capture plant at the Yorkshire power station.

The main components of the ERG system are a two-stage “polishing” tray scrubber and a direct contact packed tower cooler. ERG has also supplied additional equipment such as recirculation pumps, a fan, scrubbing liquor storage tanks, and ancillary instrumentation and control equipment. The unit will treat about 30,000m³/hr of flue gas, and will remove 80% to 90% of the SO₂ and particulates present in the flue gas to condition it for the downstream carbon capture process. The unit is scheduled to be operational in 2011.

The scrubber and the cooler are each 9m tall and 2m diameter and are constructed from GRP / Polypropylene to ERG’s specification.

The Ferrybridge carbon capture project is a pilot trial to prove the technology for post combustion carbon capture by treating a 1% side stream of the flue gases from the power plant, making it Europe’s largest post carbon capture project of this type, and demonstrates the participants’ commitment to clean coal technology.

The completion of this project further consolidates ERG’s position as a leader in the design and supply of industrial air pollution control systems for the process industries. Other major industrial projects that ERG has completed in the last year include: a methane conditioning plant for the world largest fertiliser production site in Qatar, a hydrochloric acid fume scrubber for a petrochemicals refinery in Kazakhstan, a silicon tetra-fluoride scrubber for phosphate fertiliser production in Egypt, a solvent recovery scrubber for a synthetic textiles manufacture, and treatment plants for cleaning specialty gases used in optical fibres and electronics both in South Korea and the UK.

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Attachment:

Photo of the scrubber and cooling towers during construction.



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About ERG (Air Pollution Control) Ltd.

ERG (Air Pollution Control) is a leading supplier of air pollution control systems and services with a 30 + year track record, providing turnkey tailor made solutions that are optimised to give the best technical solution for the lowest capital and running cost.

ERG is based in Horsham, West Sussex, near Gatwick airport with satellite offices around the UK, a branch office in the Middle East, and a global network of V-tex[®] technology licensees.

ERG specialises in odour control and gas conditioning systems; V-tex[®] scrubbing, stripping and condensing technology; soluble contamination capture and recovery; particulate removal systems; hazardous waste flue gas cleaning systems, and VOC contamination abatement.