## ADSORPTION RESEARCH AT THE SCHOOL OF ENGINEERING

## Fundamentals of Optimised Capture Using Solids (FOCUS)



Fast circulating fluidised bed – with detail of CFD simulation of bubbling bed (Zhang & Brandani)

Schematic diagram of a coal-fired power plant with post-combustion capture

For more information, please contact: s.brandani@ed.ac.uk

www.eng.ed.ac.uk/carboncapture

## PEOPLE

## At the University of Edinburgh:

- Prof. Stefano Brandani: fundamentals of adsorption processes
- Prof. Jon Gibbins: integration of capture units in power stations
- Dr Xianfeng Fan: multiphase flow, fluidisation and particle tracking
- Dr Hyungwoong Ahn: adsorption and separation processes
- Dr Hannah Chalmers: technical and economic aspects of CO, capture
- Dr Mathieu Lucquiaud: design of power cycle and steam turbines
- Dr Daniel Friedrich: simulation and parameter estimation of adsorption processes



At the National Thermal Power Engineering & Technology Research Center at NCEPU, Beijing:

- Prof. Kai Zhang: experimentation, simulation and scale-up of multiphase systems
- Prof Honggang Chen: surface modification of inorganic powder materials
- Dr Gang Xu: fundamentals of energy cascade utilisation
- Dr Yang Teng: preparation and characterisation of adsorbing materials
- Dr Jian Chang: experiment and simulation of gas-solid fluidisation

























