

## Profile of China Huaneng Group 3,000 t/a CO<sub>2</sub> Capture Pilot Project

China Huaneng Group, a Fortune 500 company, is a key state-owned enterprise established in 1985. The Company is engaged in the following business: development, investment, construction, operation and management of power sources; production and sale of power and heat; development, investment, construction, production, and sale of businesses and products related to finance, energy transportation, renewable energy, and environmental protection; industrial investment, operation and management. As of the end of 2010, Huaneng Group had total assets of RMB 653.8 billion Yuan, and the total installed capacity reached 113GW, and coal production capacity reached 64.12 million tons per year.

In 2008, China Huaneng Group built its first experimental carbon capture demonstration system, i.e., Huaneng Beijing Thermal Power Plant with a capture capacity of 3000 tons of CO<sub>2</sub> per year. The system has already operated reliably for one year, successfully meeting all the technical and economic standards as designed. The CO<sub>2</sub> capture rate has topped 85%, while the CO<sub>2</sub> purity has reached 99.99%. A total of more than 3,000 tons of CO<sub>2</sub> has been captured and fully utilized. The project is the first outcome of Sino-Australia Clean Coal Working Group, specified in the Joint Declaration on Climate Change and Energy between the Chinese government and the Australian government in 2007. The project was conducted by China Huaneng Group in cooperation with Australian Commonwealth Scientific and Industrial Research Organization (CSIRO).



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