



# HNCERI

Huaneng Clean Energy Research Institute



Huaneng Clean Energy Research Institute (CERI) is the innovation center of China Huaneng Group (CHNG), the largest power company in China. CERI is dedicated to the development of advanced power generation technology including renewable energy, coal gasification & IGCC, CO<sub>2</sub> capture technology, etc.

CERI has a Coal-based Clean Energy State Key Lab (SKL) and a Beijing Key Lab of CO<sub>2</sub> Capture and Process. With the support from Huaneng Group and Chinese Government, CERI has developed China's first and largest post-combustion capture (PCC) facility in Beijing and Shanghai respectively. Recently, CERI has completed China's first IGCC-based pre-combustion capture facility in Tianjing. In addition, CERI has developed novel solvents and has successfully tested in our facilities.

- 3,000 t/a post-combustion capture demo project in Huaneng Beijing Thermal Power Plant is China's first coal-fired PCC facility;
- 120,000t/a post-combustion capture facility in Huanen Shanghai Shidongkou Power Plant is China's largest PCC facility;
- Two 1,000 t/a post-combustion capture pilot-plants for solvent tests and process optimization studies, one is for coal-fired flue gas and the other is for gas-fired flue gas;
- 30MW pre-combustion capture facility in Huaneng Tianjing IGCC power plant is China's first pre-combustion capture facility;
- Australia-China Post-combustion Capture Feasibility Study Project.

CERI works closely with domestic and international partners.



## Location

Beijing, China

## Mission

Developing and commercializing advanced carbon capture technology and other clean energy technologies such as renewable energy (solar, wind, hydro), IGCC and clean coal technology for power companies in China and across the world.

## Sponsor

China Huaneng Group, Ministry of Science and Technology (MOST) of China, National Energy Agency (NEA) of China, and other sources.

## Operator

China Huaneng Group

## Website

[www.hnceri.com](http://www.hnceri.com)

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