



## THE GLOBAL PROSPECTS OF CARBON CAPTURE AND STORAGE TECHNOLOGIES IN EMERGING COUNTRIES

As of: October 2021

The study prepared by the project looks at the global perspectives of carbon dioxide capture and storage (CCS) in emerging economies. Using India, China and South Africa as examples, the question is explored whether CCS could be capable of significantly reducing the carbon dioxide emissions of these countries. The study focused on carbon dioxide emissions from coal-fired power plants, supplemented by a rough analysis of industrial emissions. The assessment focused on estimating how much carbon dioxide could be permanently stored in potentially suitable geological formations in the three countries. This is followed by an economic, ecological and resource strategy assessment of CCS-based coal-fired power generation for each country. Furthermore, a stakeholder analysis identified driving and restraining forces with regard to the implementation of CCS.

### State of implementation/results

- project completed.
- In 2012, the project published a final report on the status and prospects of CCS [epub.wupperinst.org/...](http://epub.wupperinst.org/...)
- The project produced country reports on the prospect of CCS in India [epub.wupperinst.org/...](http://epub.wupperinst.org/...), South Africa [epub.wupperinst.org/...](http://epub.wupperinst.org/...), and China [epub.wupperinst.org/...](http://epub.wupperinst.org/...), and a comparative analysis between countries [epub.wupperinst.org/...](http://epub.wupperinst.org/...)

## PROJECT DATA

### Country/Countries:

China, Indien, Südafrika

### Implementing organisation:

Deutsche Gesellschaft für Internationale  
Zusammenarbeit (GIZ) GmbH

### BMU grant:

€ 650,000

### Duration:

10/2009 till 05/2012

### Website(s):

<http://wupperinst.org/p/wi/p/s/pd/208/>

