



## Inhalt

This study investigates the economic and environmental performance of hard-coal-fuelled electricity generation with carbon capture and storage (CCS) over the entire life cycle and thereby reveals both positive and negative aspects.

Starting from the state-of-the-art of three power plant concepts with CCS, a technology roadmap of CCS along future time horizons is investigated.

The results presented comprise an assessment of several environmental impacts caused by the release of emissions and by the demand for energy and material resources.

Furthermore, the outcome of an economic evaluation is shown by quantification of average lifetime levelised electricity generation costs, CO<sub>2</sub> avoidance costs and external costs.

### ***IER***

**Institut für Energiewirtschaft und  
Rationelle Energieanwendung**

Universität Stuttgart

Heßbrühlstr. 49a

D-70565 Stuttgart

Telefon + 49 711 - 685 87800

Telefax + 49 711 - 685 87873

