



INTERNATIONAL JOURNAL OF GREENHOUSE GAS CONTROL

AUTHOR INFORMATION PACK

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DESCRIPTION

The *International Journal of Greenhouse Gas Control* is a peer reviewed journal focusing on scientific and engineering developments in **greenhouse gas control** through **capture** and **storage** at large stationary emitters in the power sector and in other major resource, manufacturing and production industries. The Journal covers all greenhouse gas **emissions** within the power and industrial sectors, and comprises both technical and non-technical related literature in one volume. Original research, review and comments papers are included.

The scope of the journal (whilst not exclusive to) includes:

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New research results relevant for large scale CO₂ capture systems using chemical solvents, solid sorbents, chemical looping, calcium looping, membranes and membrane reactors and hybrid systems, PSA, cryogenics etc.

Advances in CO₂ capture processes (post combustion, pre combustion, oxy combustion) for power plants, cement and steel plants, refineries, petrochemicals, and other large industries Experimental results at pilot level from laboratory scale to demonstration, and relevant modelling work for scaling up CO₂ capture process simulation for energy penalty reductions. Dynamic modelling. Cost analyses and cost reduction strategies Environmental impacts/risk, safety and life-cycle assessment of capture facilities

CO₂ Transport

Design and material/technical issues for CO₂ transport systems Economic analyses and systems level optimization of CO₂ transport systems Risk assessments and safety issues Permitting and regulatory issues

CO₂ Geological Storage

Geological formation/storage capacity assessments Matching emissions sources and storage opportunities Site selection and characterization Modelling the fate and effects of stored CO₂ Integrity of the storage site, including caprocks and wells Test injection research results Risk assessments and management Monitoring tool developments and applications Environmental impact

assessments Demonstration project results and operational experiences Induced seismicity, pressure maintenance, brine displacement, groundwater impacts Remediation and measurement, monitoring and verification issues Experiences from natural/industrial analogues

Alternative storage options

Ex situ mineral carbonation (research results, safety/risk assessments, environmental/energy/legal issues, public acceptance, regulation and costs) Advanced weathering Ocean storage

Alternative mitigation options/negative emission options

BioCCS and other bioenergy mitigation options Negative emission accounting principles Comparison of different GHG mitigation options such as energy efficiency, renewables and nuclear power and their potential to reduce CO₂ emissions

System Integration and Infrastructure development

Flexibility of operation of plants and on energy systems, integration issues, infrastructure development issues, financing and policies

Implementation issues

Legal and regulatory developments/issues Human/engineering capacity constraints Public awareness/acceptance issues Industry case studies on GHG mitigation technology implementation, learning by doing, knowledge transfer, stakeholder engagement and financing options

Integrated Assessments, economic instruments that would induce commercial CCS deployment

Energy and economic modelling of the role that CCS will play in the broader portfolio of emissions mitigation options under different scenarios Analyses of policy options (national and international) to reduce GHG emissions and how these impact the commercial deployment of CCS systems

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INTRODUCTION

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Reference to a website:

Cancer Research UK, 1975. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> (accessed 13 March 2003).

Reference to a dataset:

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