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:

**CO₂ Capture**

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 industriesExperimental results at pilot level from laboratory scale to demonstration, and relevant modelling work for scaling upCO₂ capture process simulation for energy penalty reductions. Dynamic modelling.Cost analyses and cost reduction strategiesEnvironmental impacts/risk, safety and life-cycle assessment of capture facilities

**CO₂ Transport**

Design and material/technical issues for CO₂ transport systemsEconomic analyses and systems level optimization of CO₂ transport systemsRisk assessments and safety issuesPermitting and regulatory issues

**CO₂ Geological Storage**

Geological formation/storage capacity assessmentsMatching emissions sources and storage opportunitiesSite selection and characterizationModelling the fate and effects of stored CO₂Integrity of the storage site, including caprocks and wellsTest injection research resultsRisk assessments and managementMonitoring tool developments and applicationsEnvironmental impact
assessmentsDemonstration project results and operational experiencesInduced seismicity, pressure maintenance, brine displacement, groundwater impactsRemediation and measurement, monitoring and verification issuesExperiences 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 weatheringOcean storage

Alternative mitigation options/negative emission options

BioCCS and other bioenergy mitigation optionsNegative emission accounting principlesComparison 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/issuesHuman/engineering capacity constraintsPublic awareness/acceptance issuesIndustry 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 scenariosAnalyses of policy options (national and international) to reduce GHG emissions and how these impact the commercial deployment of CCS systems

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