

Process Industries Division
Power Industries Division
Energy, Environment & Sustainability Group

WHAT'S THE FUTURE FOR CARBON CAPTURE AND STORAGE?

Institution of
**MECHANICAL
ENGINEERS**

**Evaluating the latest regulatory,
financial and project developments**

19-20 October 2011
London

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www.imeche.org/events/S1606

ATTEND TO FIND OUT

- Latest UK government perspectives on funding
- Current and projected environmental protection and Health and Safety regulations
- Progress made on leading-edge projects, future R&D needs of the industry
- Impacts of energy market reforms on CCS investment
- Requirements of storage leases

Improving the world through engineering

Image courtesy of Vattenfall

WHAT'S THE FUTURE FOR CARBON CAPTURE AND STORAGE?

This seminar will provide you with an ideal opportunity to learn of the latest developments in current CCS projects, the CCS industry and CCS technologies.

Hear key industry leaders explain: recent changes in legal, policy and regulatory frameworks influencing CCS; latest thinking on the economics of CCS projects and some of the most important technical advancements affecting CCS developments.

- Day one will concentrate on the policy, regulatory and investment risks associated with CO₂ capture, transport and storage, as well as the state of the market.
- Day two will cover CO₂ transport and storage as well as providing an update on technological developments and current projects.

THIS EVENT WILL ATTRACT:

- Conventional power project developers
- Policymakers
- Advisors, consultants and service providers
- Designers and engineers
- Owners and operators of plants participating in the EU ETS
- Investors and financial institutions
- Insurers

DELEGATES WILL:

- Discuss the future of CCS with key players within industry and policy
- Examine key aspects of current UK projects including:
 - Environmental risks, their avoidance and mitigation
 - Principal risk criteria applicable to the industry
 - Longer term operator liabilities on and offshore
 - Economics of current UK energy market and its effects on CCS projects
 - Policy, legal and regulatory developments affecting CO₂ capture and storage
 - Latest information on the safe transport and offshore storage of CO₂
- Overview of CCS projects worldwide

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WHAT'S THE FUTURE FOR CARBON CAPTURE AND STORAGE? 19-20 OCTOBER 2011 INSTITUTION OF MECHANICAL ENGINEERS

DAY ONE – 19 OCTOBER 2011

09:30 REGISTRATION AND REFRESHMENTS

SESSION 1: POLICY & INVESTMENT RISK

10:00 CHAIRMAN'S WELCOME AND INTRODUCTION

Michael Gibbons, Director, 2Co Power (Yorkshire) Ltd

10:10 UPDATE ON CCS PROGRAMME

Adam Dawson, CEO of Office of Carbon Capture & Storage, Department of Energy & Climate Change (DECC)

- Role of Government in progressing CCS in the UK
-

10:35 WHAT THE EA IS DOING TO REGULATE, FACILITATE AND DEVELOP CCS

Aidan Whitfield, Senior Advisor: Permitting & CCS, Environment Agency

How the Environment Agency (EA) plans to regulate the environmental risks of CCS technologies and a review of progress over the last year.

- April's Environmental Risk Assessment for CCS identified the risk management measures that need to be taken by CCS operators
 - Providing advice to the Government and working with other regulators to develop the UK regulatory framework
 - CCS environmental permits for the CO₂ capture pilot plants at Ferrybridge and Aberthaw power stations
 - Working with industry and academia to improve understanding of the environmental effects of deploying CCS technologies
-

11:00 REFRESHMENTS



A BALANCED PORTFOLIO OF SPEAKERS, NOT PURELY CONCENTRATING ON THE TECHNICAL ISSUES BUT THE LOGISTICAL, COMMERCIAL AND LEGAL TOPICS.

KEITH AVILA

GENERAL MANAGER, FIKE UK
SPEAKING ABOUT CARBON CAPTURE AND STORAGE – HOW IS IT WORKING AND WHAT NEXT?, OCTOBER 2010.

11:30 HEALTH AND SAFETY REGULATION OF CCS – CHALLENGES AND OPPORTUNITIES

Rosemary Whitbread, Principal Consultant, Health and Safety Laboratories

- A summary of the hazard and risk profile and the challenge to be met
 - Working with research and demonstration projects to understand the knowledge gaps and inform our regulatory approach
 - The benefits of setting appropriate regulatory benchmarks
-

11:55 FUTURE POLICY AND REGULATORY NEEDS OF CCS

Luke Warren, International Policy Executive, The Carbon Capture & Storage Association (CCSA)

- CCSA's perspective on the role of CCS in meeting UK climate targets
 - Overview of the current regulatory framework
 - What is required to enable CCS to be deployed at the required scale?
-

12:20 Q&A

12:40 LUNCH



THIS SEMINAR GAVE SSS GEARS THE ABILITY TO ASSESS THE REALITY OF ASSUMED MARKET OPPORTUNITIES, DISCOVER POTENTIAL FOR NEW APPLICATIONS AND NETWORK AMONGST INDUSTRY PROFESSIONALS TASKED WITH ROLES AMONGST THE SAME FIELDS OF OPPORTUNITY.

NICHOLAS BELLAMY

APPLICATIONS MANAGER,
SSS GEARS LIMITED

SPEAKING ABOUT CARBON CAPTURE AND STORAGE: MAKING IT HAPPEN, OCTOBER 2009

WHAT'S THE FUTURE FOR CARBON CAPTURE AND STORAGE? 19-20 OCTOBER 2011 INSTITUTION OF MECHANICAL ENGINEERS

SESSION 2: STATE OF THE MARKET

13:40 CHAIRMAN'S WELCOME AND INTRODUCTION

Luke Warren, International Policy Executive,
The Carbon Capture & Storage Association (CCSA)

13:50 LEGAL AND REGULATORY ISSUES

William Wilson, Barrister, Environmental & Energy Law,
Burgess Salmon LLP

- UK and EU legal update
 - UK CCS demonstration programme and NER300
 - Liability issues
 - CCR impacts on wider industry
 - Legal and regulatory aspects of CCS deployment, and lessons from the UK ERC Study
-

14:15 AN UPDATE FOR THE LEADING-EDGE PROJECTS ACROSS THE GLOBE

Chris Barbary, Vice President Business Management,
Jacobs

- Overview of global projects
 - Nine UK & 20 Europe
 - Overview of 'leading edge' CCS projects globally, and brief description of these projects
 - Influencing factors for investment in CCS now, and thoughts on future drivers for investment
-

14:40 IMPLICATION OF THE ENERGY MARKET REFORMS ON THE CCS INVESTMENT ENVIRONMENT

Stuart Murray, Senior Consultant, Pöyry Management
Consulting

Co authors: Simon Bradbury, Gareth Davies, Pöyry
Management Consulting

- What policy options have been chosen and how will policy tools interact?
 - What role will markets have to play?
 - How will the policies affect CCS and other technology types, market players and investors?
 - What will the resultant investment environment look like?
-

15:05 REFRESHMENTS

15:35 ELECTRICITY GENERATION COST WITH CCS

Adina Popa, Sector Leader – Carbon Capture & Storage,
Thermal Generation Division, Mott MacDonald

Co-author: Guy Doyle, Chief Economist

- Determining the costs of generation
- The main challenge to coal and gas technologies is to understand the extent of the first-of-a-kind premium
- Uncertainty derives from the commodity prices for fuels and carbon, while performance variations play a secondary role
- Any assessment of costs is subject to large bands of uncertainty

A summary of Mott MacDonald's assessment of current and forward power generation costs for the main large-scale technologies with CCS.

The study considers three capture technologies: post-combustion capture fitted to advanced supercritical (ASC) coal and gas-fired combined cycle gas turbine (CCGT); pre-combustion capture for gas-fired CCGT and coal-fuelled IGCC; oxy-fuel combustion of ASC coal.

Costs of transport and storage are factored in based on a user charge per tonne of CO₂ captured.

No benefit is assumed from enhanced oil recovery (EOR). We have assumed that all new plant orders from 2010 will be required to be designed to be capture-ready in accordance with the EU CCS directive.

16:00 FUTURE R&D NEEDS

Paul Fennell, Senior Lecturer, Imperial College

Co-authors: Nick Florin, Mohamad Al-Jeboori,
Imperial College

- Discussion of calcium looping as an alternative to amine-based scrubbing
 - EU coaling project, including 1.7MW pilot plant
 - Integration with cement manufacture – zero waste streams
 - Future directions
-

16:25 Q&A

16:45 CHAIRMAN'S FINAL COMMENTS AND OVERVIEW OF DAY ONE

Luke Warren, International Policy Executive,
The Carbon Capture & Storage Association (CCSA)

17:00 DRINKS RECEPTION

19:30 CLOSE OF SEMINAR

DAY TWO – 20 OCTOBER 2011

SESSION 3: TRANSPORT & STORAGE

09:30 REGISTRATION AND REFRESHMENTS

10:00 CHAIRMAN'S WELCOME AND INTRODUCTION

Mike Rolls, Director, Business Development, Sustainability & Government Affairs, Siemens UK Energy Sector

10:10 THE CROWN ESTATE ROLE IN OFFSHORE GEOLOGICAL STORAGE OF CO₂

Ward Goldthorpe, Programme Manager CCS & Gas Storage, The Crown Estate

- Introduction to The Crown Estate
 - Current role in the UK CCS demonstration programme
 - CO₂ storage leases
 - Beyond the CCS demonstration programme
-

10:35 SAFE TRANSPORT AND HANDLING OF HIGH-PRESSURE CO₂

Duncan Livingston, Group Leader, Fluids, Frazer-Nash Consultancy

- Widespread adoption of CCS requires that the capture, transport and storage processes can be carried out safely
 - This presentation discusses the analysis techniques that can be used to support CCS safety cases
 - These enable prediction of the consequences of relative small leaks presenting an asphyxiation or toxicity hazard to workers as well as larger catastrophic releases endangering the general public
-

11:00 REFRESHMENTS



I'M NOW UP TO DATE WITH CURRENT CCS TECHNOLOGY HAVING ONLY JUST STARTED LOOKING INTO IT!

PAUL NEWMAN

MANAGER OF COMBUSTION TECHNOLOGY, HAMWORTHY COMBUSTION

SPEAKING ABOUT : CARBON CAPTURE AND STORAGE – HOW IS IT WORKING AND WHAT NEXT?, OCTOBER 2010.

11:30 DAMAGE MECHANISMS AND EVALUATION IN CO₂ TRANSPORT PIPELINES – AN ENGINEERING CRITICALITY ASSESSMENT

Feargal Brennan, Head of Department – Offshore, Process & Energy Engineering, Cranfield University

Amir Chahardehi, Offshore Renewable Energy Group, Cranfield University

- Structural integrity of CO₂ transport pipelines
 - Damage mechanism in CO₂ pipelines
 - Pipeline engineering criticality assessment
-

11:55 UPDATE ON THE ILLINOIS BASIN – DECATUR PROJECT

Anthony K Booer, Marketing & Technique Manager, Schlumberger Carbon Services

Co author: Lori Gauvreau, Schlumberger Carbon Services

- The US Department of Energy's Regional Carbon Sequestration Partnership Program
 - Update on the MGSC Illinois Basin – Decatur Project, Decatur, Illinois, USA
 - One million tons of CO₂ to be injected over a period of three years
 - Pure CO₂ from ethanol fermentation process
 - Storage formation Mt. Simon Sandstone at 7,230 ft
 - Project design and implementation
 - Surface facilities
 - Injection well design and drilling
 - Monitoring, verification and accounting
 - Geophysical and geochemical research
 - Best practices and lessons learned
-

12:20 SAFETY BY DESIGN IN THE DEVELOPMENT OF A PROCESS OPERATION

Martin Hadfield, Design Coordinator – Compression Plant UK Construction, National Grid

Safety by design is a powerful tool in the development of any process operation. The process of transporting carbon dioxide should be treated no differently from that of traditionally bulk transported gases such as methane. The use of a number of engineering design measures can be employed on any project to ensure that CCS becomes a viable technology that can be operated safely and help us meet the UK 2050 targets.

- Overview of engineering challenges associated with transportation of CO₂
 - Overview of health and safety challenges associated with transportation of CO₂
 - Process safety management
 - Safety by design tools and deployment on major construction projects
 - Application on current FEED projects and successes
-

12:45 Q&A

13:05 LUNCH

WHAT'S THE FUTURE FOR CARBON CAPTURE AND STORAGE? 19-20 OCTOBER 2011 INSTITUTION OF MECHANICAL ENGINEERS

SESSION 4: PROCESS & PROJECTS

14:05 CHAIRMAN'S WELCOME AND INTRODUCTION

Jon Gibbons, Professor of Power Plant Engineering and Carbon Capture, Institute for Materials & Processes, School of Engineering, University of Edinburgh

14:15 NER300 AND UK GOVERNMENT CCS COMPETITIONS

Katherine Knight, CCS Specialist, Parsons Brinckerhoff

- What is the NER300 competition, and what are the timescales?
- Who made submissions to the CCS section of NER300?
- What is happening now with regard to the assessment of the submissions?
- What are the objectives and criteria for the UK Government competition?
- What are the timescales for the UK Government competition?

14:40 PM PETERHEAD CCGT CCS PROJECT

Jeremy Carey, Technology Manager, Scottish and Southern Energy

- Outline and update on the Peterhead CCGT CCS project
- SSE's strategic interest in CCS
- Rationale for Gas CCS on GB
- CCS blockers

15:05 CCS PROJECT DEPLOYMENT

Lewis Gillies, Chief Executive Officer, 2Co Energy

- CCS projects have been mooted by industry for many years
- The political environment has now evolved such that projects should shortly become a reality in Europe
- Is the industry ready to deploy the technology?

15:30 THE CASE FOR CCS INFRASTRUCTURE NETWORKING

Calum Hughes, Director, Yellow Wood Energy

- Should the demonstration projects share infrastructure?
- The current environment for investment in infrastructure capacity
- What are the incremental costs of spare capacity?

15:55 THE INSTITUTION OF MECHANICAL ENGINEERS VIEW

Tim Fox, Head of Energy and Environment, Institution of Mechanical Engineers

16:05 CHAIRMAN'S SUMMARY OF DAY

Jon Gibbons, Professor of Power Plant Engineering & Carbon Capture, Institute for Materials & Processes, School of Engineering, University of Edinburgh

16:30 Q&A

16:50 CHAIRMAN'S CLOSING STATEMENT

Jon Gibbons, Professor of Power Plant Engineering & Carbon Capture, Institute for Materials & Processes, School of Engineering, University of Edinburgh

17:05 CLOSE OF SEMINAR

This programme is subject to change.

The Institution is not responsible for the views or opinions expressed by individual speakers.



THE SEMINAR HELPED TO
REFINE MY UNDERSTANDING
OF WHERE PROSPECTS
FOR FUTURE BUSINESS
ARE LIKELY TO ARISE.

GEOFF THOMPSON
PRINCIPAL PROCESS ENGINEER,
SNC-LAVALIN UK LTD
CARBON CAPTURE AND
STORAGE: MAKING IT HAPPEN
SEMINAR, OCTOBER 2009

Process Industries Division
Power Industries Division
Energy, Environment & Sustainability Group
Organising Committee:

Norman Harris, CEng FIMechE, Director, 20CC

Calum Hughes, BEng, Solicitor, Director and
Principal Consultant, Yellow Wood Energy

John Armstrong, CEng FIMechE, Head of
Engineering Governance and Process Safety,
E.ON UK

Tim Jackson, CEng FIMechE, Principal Engineer,
Sinclair Knight Merz

Andy Brown, CEng FIMechE, AFIChemE,
Engineering Director, Progressive Energy

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WHAT'S THE FUTURE FOR CARBON CAPTURE AND STORAGE? BOOKING FORM

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10 NOVEMBER 2011

LONDON

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Gain insight into ways of reducing the capital and operational expenditure associated with offshore wind and marine renewable energy. Benefit from philosophy and experiences by those who have already addressed these issues in offshore renewable energy and oil & gas operations.

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27 OCTOBER 2011

LONDON

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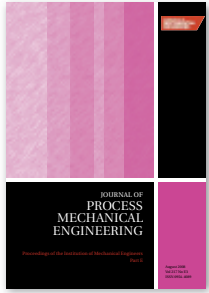
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Institution of Mechanical Engineers

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