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THE CARBON CAPTURE AND STORAGE ASSOCIATION (CCSA)

Threats and Opportunities in the Commercial Deployment of CCS

**International Risk Governance Council
Ruschlikon 8th November 2007**

**Dr Jeff Chapman
Carbon Capture & Storage Association**



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Threats from Policy

- **The only thing that prevents investment in CCS is policy**
- **Policy exists at State, Federal and International levels**
- **Policy divides into Regulation and Incentives**
- **Regulation can be Negative, Blind or Supportive**
- **Incentives can be Financial (carrot) or Regulatory (stick)**



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Threats to new policy development

- **Policies may be introduced that frustrate CCS**
- **Threats can arise from reversals in policy**
- **Timescale slippage is ever present**
- **Competition with regulation & incentives for other low-carbon energy technologies**
- **Not consistent with climate aspirations/commitments**
- **Distorted by interest groups**
- **Industry appears divided**



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Opportunities to Influence

- **Need for influence at state(domestic) policy level.**
- **Need for coordinated approach at federal level**
- **Need for concerted international action**



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State Policy

- **Licensing inc, long term liability**
- **Planning & Environmental Impact Assessment**
- **Existing regulatory impacts e.g. Landfill Directive**
- **Health & Safety**
- **Incentives and financing**



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Federal/EU Policy

- **Emissions trading**
- **Licensing/regulation**
- **Mandatory CCS**
- **Existing regulatory impacts e.g. Landfill Directive**
- **Regional Programmes e.g. Flagship Programme**



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International Policy

- **OSPAR & London Conventions**
- **UNFCCC, Kyoto Protocol & CDM**
- **G8**
- **Influence of CSFL & IEA**
- **Emissions trading linkages**
- **International 'demonstrations' of CCS**



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Proposition

- **The World is dragging it's feet with respect to climate change but especially in the implementation of CCS.**
- **The CCS business community should apply its resources to influence/expedite policy.**
- **The CCSA is one model in which a group of organisations with an interest in CCS have come together to provide a positive influence on policy at UK, EU and international levels.**
- **We welcome the establishment of similar groups in other countries working together on the CCS opportunity**



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What is the CCSA?

It is:

A Business Association formed in the UK to represent the interests of its members in the development of business in geo-CCS wherever opportunities may exist.

It is not:

A technical forum, a professional institute or an environmental or climate campaign group.



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Officers of the CCSA

- President:** Lord Ron Oxburgh
- Chairman:** Gardiner Hill, BP
- Vice Chairs:** Tim Hill, E.ON – UK
Peter Whitton, Progressive Energy
- CEO:** Jeff Chapman
- Co. Secretary:** David Green OBE
- Policy Officer:** Judith Konigshofer



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Members

- **Air Products**
- **Alstom Power**
- **AMEC**
- **Atkins**
- **BG Group**
- **BGS**
- **BP**
- **British Cement Association**
- **Camco International**
- **Chevron**
- **Climate Change Capital**
- **Coal Authority**
- **ConocoPhillips**
- **Denbury Resources**
- **Denton Wilde Sapte**
- **DNV**
- **Doosan Babcock**
- **Drax Power**
- **EDF Energy**
- **EON - UK**
- **ERM**
- **General Electric**
- **Herbert Smith**
- **Hydrogen Energy**
- **ILF Consulting Engineers**
- **Linde**
- **Linklaters**
- **Marathon Oil**
- **MMI Engineering**
- **Nexen Exploration**
- **Norton Rose**
- **PowerFuel**
- **Poyry Energy Consulting**
- **Progressive Energy**
- **PWC**
- **Renew Tees Valley**
- **Rio Tinto**
- **Rolls Royce**
- **RWE npower**
- **Sasol**
- **Schlumberger**
- **Scottish & Southern Energy**
- **Scottish Ctre for Carbon Storage**
- **Scottish Enterprise**
- **Scottish Power**
- **Senergy**
- **Shell**
- **Statoil**
- **Total**
- **Watson Farley & Williams**
- **Yorkshire Forward**



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CCSA activities - UK

- **First point of call for government**
- **Advocacy with Politicians and Officials generally**
- **Regulation – liaison with government**
- **Incentives – liaison with government**
- **Health & Safety – liaison with regulator**
- **Promotion – presentations, papers, newsletter**
- **Press**
- **Information services**
- **Advice to members**
- **Workshops for members**



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CCSA activities - Europe

- **ZEP Policy & Regulation Task Force**
- **EU ETS**
- **Regulatory policy liaison**



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CCSA activities - international

- **UNFCCC CDM and post 2012**
- **Carbon Sequestration Leadership Forum**
- **World Energy Council**
- **IEA**
- **Other international associations eg IETA, WCI**
- **Other CCSAs or equivalent e.g. NACCSA**



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CCSA Working Groups/Task Forces

- **Regulation & Licensing**
- **Planning & Environmental Impact Assessment**
- **Communications**
- **Incentives**
- **Health & Safety**
- **International**



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Conclusion

- **Delivery of policies in support of commercial CCS deployment is not happening quickly enough anywhere in the World.**
- **The challenge is positively to influence the roll-out of CCS projects.**
- **The opportunity is for the CCS business community to deliver a major contribution to climate stabilisation and energy security a cost-effective way.**



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