

Feedback Seminar 23/June/04

# MISSION OUTCOMES

- Key Messages
- Opportunities
- Recommendations

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and

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# Key Messages 1

- Australia is adopting a **Carbon Abatement Technology** approach for fossil fuels, complementary to other energy sources.
- **CCS** is a key element of this approach and a **strategic framework** established for its deployment.
- A major feature is a **Technology Route Map** spanning 30 years and positioned in a Hydrogen context.
- A **Sources/Sinks inventory** set up including an exercise to match them



## Key Messages 2

- Australia very supportive of US-initiated international **Carbon Sequestration Leadership Forum**

• Wishes to establish **framework for economics, legislation and regulation** - best practise, monitoring and verification, long term ownership, environmental acceptability

• Early application is likely to be the **Gorgon Project** in Western Australia - emphasised the importance of **public perception and need for consultation**

## Key Messages 3

- Australian **Co-operative Research Centres** proving their worth; excellent examples of industry-academic-government partnerships
- Recognised need for **international collaboration** but ensuring benefit to Australia
- Desire for **Lighthouse/Demonstration projects** (as indicated by COAL21 and TRM work) but need for some sort of **financial incentive or support** will be essential

**Backed now by a new 300m euro Low C Programme  
over 2005-15 - announced 15June04**

# Opportunities


- **Technological**

- UK Companies involvement in Australian CRCs (CO2CRC, Clean Power from Lignite)
- BGS/CO2CRC collaboration on assessment of CO<sub>2</sub> in Gorgon Project

- **Strategic**

- DTI to work on policy development with Australia (in support of CSLF)
- DTI to collaborate with Australia on harmonisation of economic models
- DTI to collaborate on Technology Route Map Development

# Recommendations 1

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- In developing a **long-term, integrated carbon abatement strategy**, the UK should ensure that a **portfolio of technology options** is made available for deployment, including those that address the **clean use of fossil fuels**.
  - This should **include efficiency improvements through to capture of CO<sub>2</sub>** from fossil fuel plant with safe and long-term storage of CO<sub>2</sub> in geological structures.
  - Integrate existing UK **CO<sub>2</sub>** source and sink data and **source-sink matching** activities
  - A clear **link** should be made between **CCS** and a possible transition to greater **use of hydrogen** within the energy system.

## Recommendations 2

- An **UK Technology Roadmap for CCS** should be developed in the context of an **overall framework for carbon abatement with fossil fuels**.
- UK should make full use of, and play an active role in, **international collaboration on CCS**
  - build on ongoing involvement in CSLF, Europe and North America
  - look for collaboration opportunities with Australian government, industry and research organisations
- UK, directly and through the CSLF, should support the strong lead taken by Australia in the development of sound **frameworks for legislation and regulation of CCS**, along with **best practices for monitoring and verification of CO<sub>2</sub> storage**.

# Recommendations 3

- **Dialogue** should be established as a matter of urgency with **all potential stakeholders** with DTI taking the lead - essential to gain acceptance prior to implementation of CCS projects.
- Note should be taken of excellent **industry-academia-government R&D partnerships** in Australia as potential models for the UK, especially CRCs where high industry involvement aids setting future research directions.

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## CO<sub>2</sub> Capture and Storage

## DTI Mission to Australia

**PANEL SESSION  
and  
DISCUSSION**