IEA Greenhouse Gas R&D Programme

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1st Joint Network Meeting

New York – 11-13 June 2008

BG2 – Operation at 1MtCO2

Focus on gaps

- Differences in actual behaviour vs Simulation
  - Regulators expectations – can Networks inform
- Limitations of monitoring – how can we track plumes? seismic ? Other techniques?
  - Qualitative
  - Quantitative – level of accuracy ?
- Well population – do we have sufficient info on abandonment conditions ?
- Triggers for remediation or action – can networks provide criteria
  - Impacts of leaks
- How does regulator know if monitoring plans adequate
  - More observation wells means more risk of leakage
  - Regulator expectations on monitoring plans – not R&D level
  - Regulators will need to draw on expertise – eg 3rd party verification of mon plans – role for networks
  - Need to be able to respond quickly, and anticipate needs
- Are all potential risks covered - oil field so low risks, well population cause the risk

Purity

- Compromises at CCS deployment scale-up, more impurities creates more uncertainty, Technol and industry specific

BG2 – Operation at larger scale

More CO2

- Need more injection wells

EOR

- Moving from EOR to storage changes lots of things
- Retrospective site characterisation? Or stay as oil producer
- Differences between EOR and storage sites
- Can you get credits?

Populated areas

- Storage – more public concerns – more assurance monitoring, more remediation plans
- Transport
- Use of natural analogues, or not?
- Ground water impacts driving regulation
- Impacts on other underground activities?

Saline aquifers

- Additional information is needed – under site characterisation
- How to monitor? Need more modelling and monitoring to be assured of storage security