



## **Australian Government**

### **Global CCS Institute**

APP CFE Taskforce Meeting Presentation

Seoul, ROK

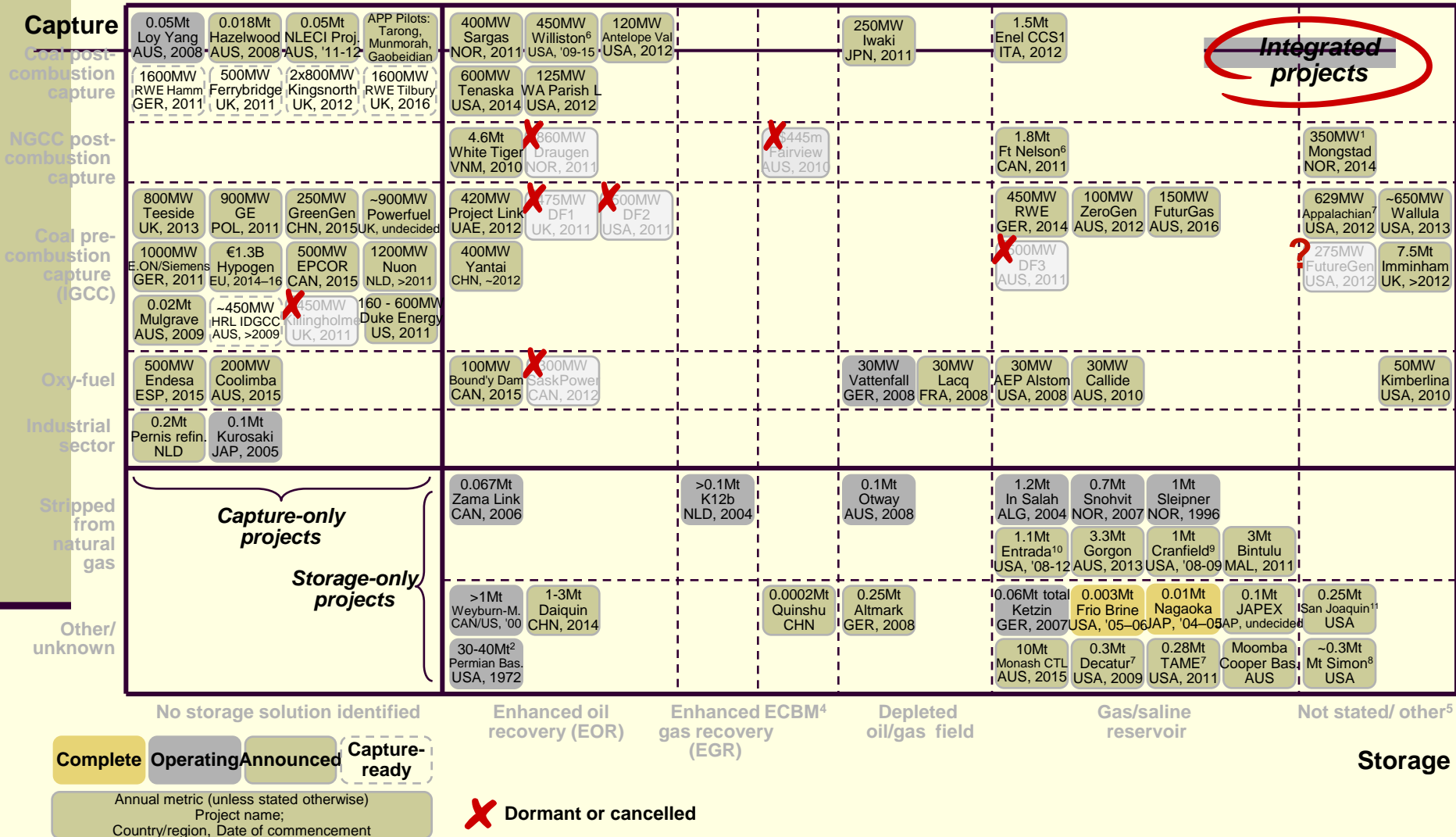
31 March 2009

# A Growing Global Commitment

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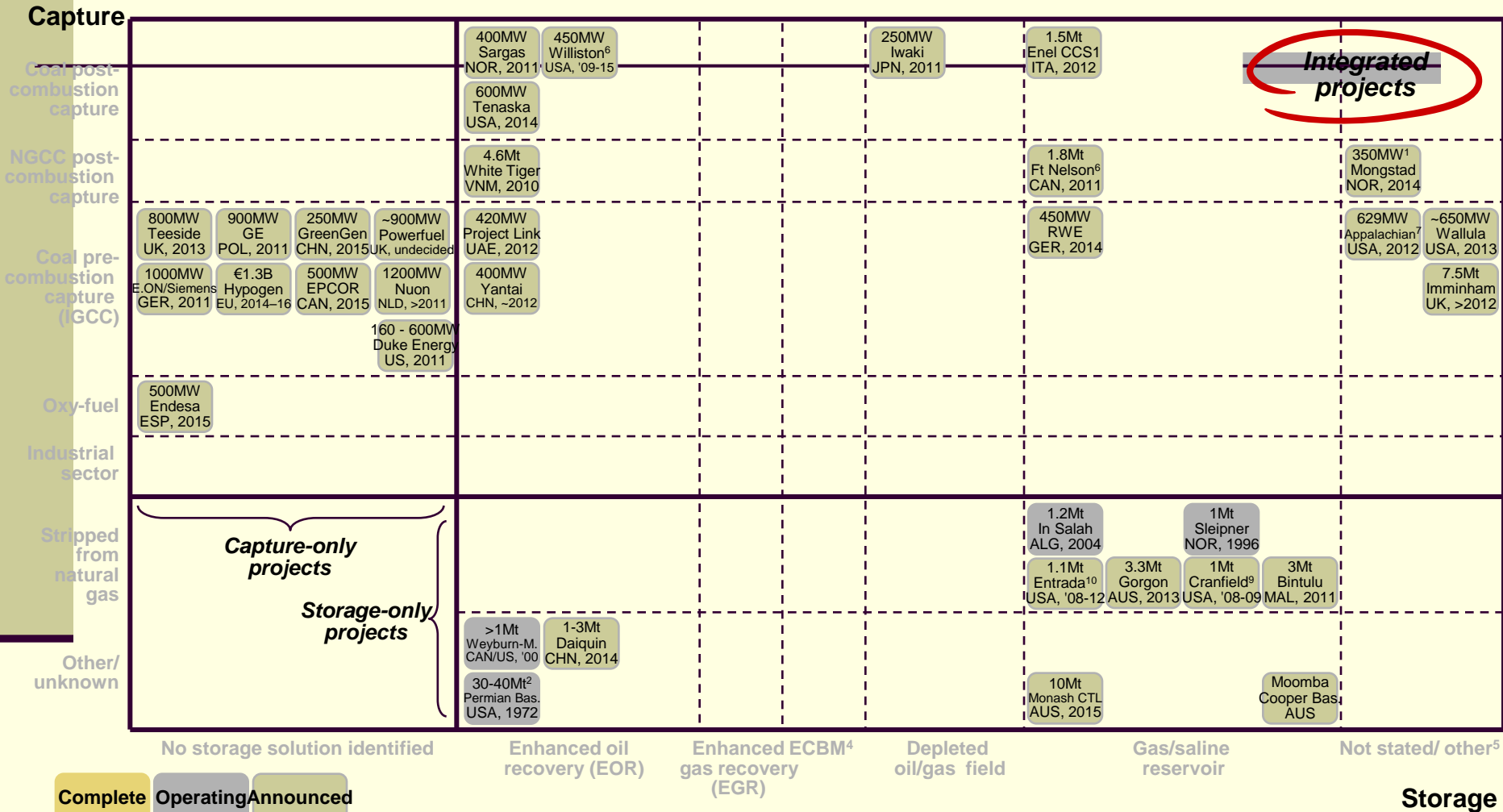
- Internationally there is growing recognition of the part CCS will need to play in the global response to global warming
  - CCS is necessary to address current and future stationary CO<sub>2</sub> emitters
  - IEA expects CCS to contribute between 5 – 10 Gt of CO<sub>2</sub> emissions reductions by 2050
- There is global recognition of the need to have a diverse portfolio of industrial-scale CCS projects by 2020
  - IEA and CSLF have recommended, and the G8 endorsed, a target of 20 industrial scale, fully integrated projects committed by 2010 for broad deployment by 2020
- Australia believes the level of concerted international action required to develop this portfolio is high, requiring a new approach and a new mechanism

# Integrated CCS Projects are Needed



1. "CHP with post-combustion CCS" 2. Permanency of storage is unclear 3. Potential EOR storage 4. Enhanced coalbed methane recovery 5. eg, Depleted coal seams 6. PCOR 7. MRCSP 8. MGSC 9. SECARB 10. SWP 11. WESTCARB. Source: IEA, *Fossil fuel-fired power plants and CO2 capture and storage*; CSIRO, *Australian CCS Commercial and R&D Projects*, 2007; Gassnova, *International CCS technology survey*; Carbon Capture and Sequestration Technologies @ MIT, <http://sequestration.mit.edu/tools/projects/index.html>; Gassnova *International CCS Technology Survey 2008*; RET interviews

# Many more industrial-scale projects needed



Complete Operating Announced  
Annual metric (unless stated otherwise)  
Project name;  
Country/region, Date of commencement

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# The Global CCS Initiative

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- On 19 September, Prime Minister Kevin Rudd announced the Global Carbon Capture and Storage (CCS) Initiative, with a commitment of up to \$100 million per annum to fund a Global CCS Institute.
- The Institute's mandate is to accelerate the global deployment of industrial scale CCS and ensure its commercial viability.
- Initially it will drive co-operation to deliver a diverse portfolio of at least 20 integrated commercial scale projects, operating by 2020.

# Global Institute Preparatory Meeting

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- Development of the Global CCS Institute has progressed significantly since September 2008.
- On 24 and 25 November 2008, Australia hosted a Preparatory meeting of the Global Institute in London.
- The discussions which included a range of key CCS proponents from around the world developed the initial direction of the Institute.

# GCCSI Foundation Membership

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- A group of early movers announced their support of the Global CCS Institute at the Preparatory Meeting in London.
- The Republic of Korea was one of the first countries represented as a Foundation Member.
- The offer of Foundation Membership is open until the launch of the Institute.

# The GCCSI is moving forward

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- Mr Nick Otter has been appointed as the interim CEO and the Department is providing an interim support structure of some 20-25 officers.
- A meeting of Foundation Members is scheduled for 16-17 April in Canberra, Australia.
- The permanent form of the Global Institute will be finalised and become operational later in the year.

# Global CCS Institute Initial Activities

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- The work of the Global CCS Institute will:
  - Accelerate the deployment of demonstration projects by directly brokering agreements and developing project consortia.
  - Undertake supporting activities that will identify and remove barriers to the deployment of industrial scale demonstration projects.

# Working with Existing Initiatives

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- The Global CCS Institute believes it has a significant role to play in the development and deployment of CCS Projects.
- However, co-operation and collaboration with existing national and international clean energy initiatives will be essential.
- Each international initiative has their role to play in ensuring that CCS is deployed worldwide and at industrial scale by 2020.

# Links with the Asia Pacific Partnership

- The Australian Government and the Global CCS Institute understand the wider mandate of the APP CFE Taskforce.
- Through the CFE and other international relationships we have built some key outcomes in progressing CCS:
  - With international support for demonstration projects in Australia (eg Japan in Callide A Oxyfuel in Queensland and China in IDGCC in Victoria)
  - As well as international projects (eg PCC project in China, ECBM with Japan and China, geological storage assessment in China).



# Further Information

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