# CO-OPERATION TO PROMOTE SUSTAINABLE ENERGY CARBON CAPTURE AND STORAGE

**Nick Otter** 

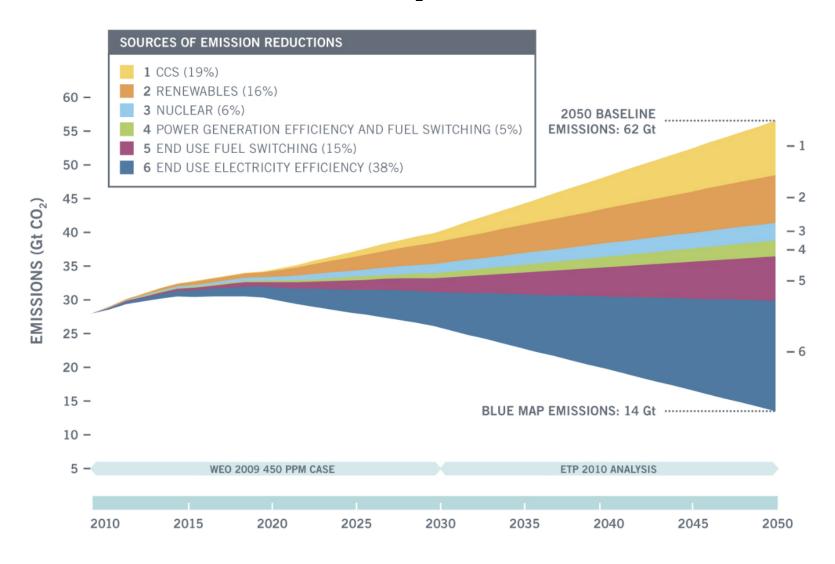
Former CEO of Global CCS Institute

UNECE Committee on Sustainable Energy
Biennial Session March 2011
Geneva

29-31 March 2011

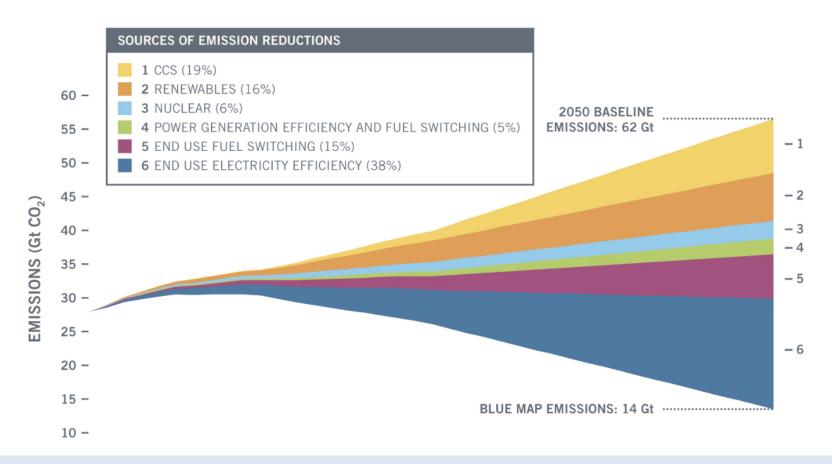
#### THE IEA BLUE MAP SCENARIO

CCS PROVIDES ~20% OF CO<sub>2</sub> MITIGATION BY 2050



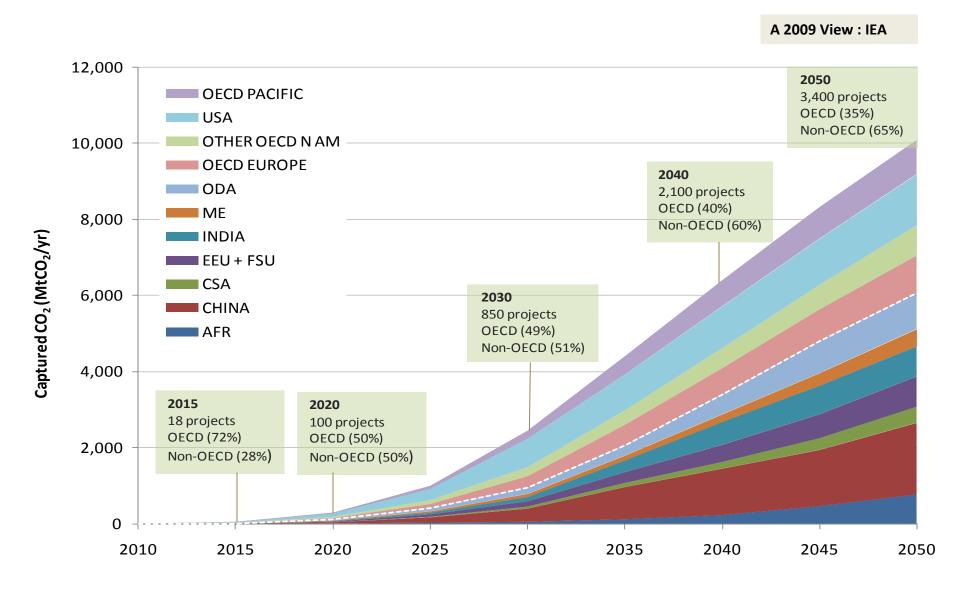
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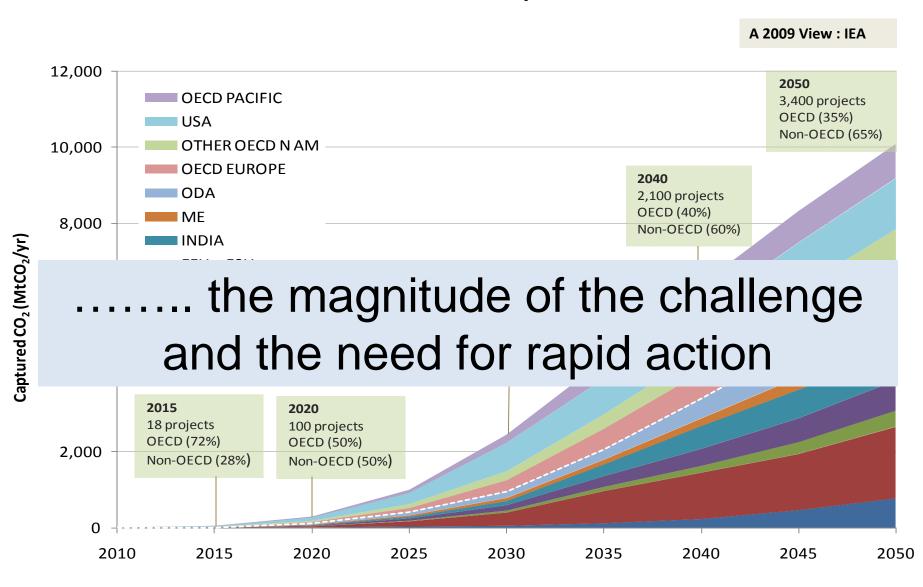


Importance of portfolio approach that includes addressing fossil fuels and CCS

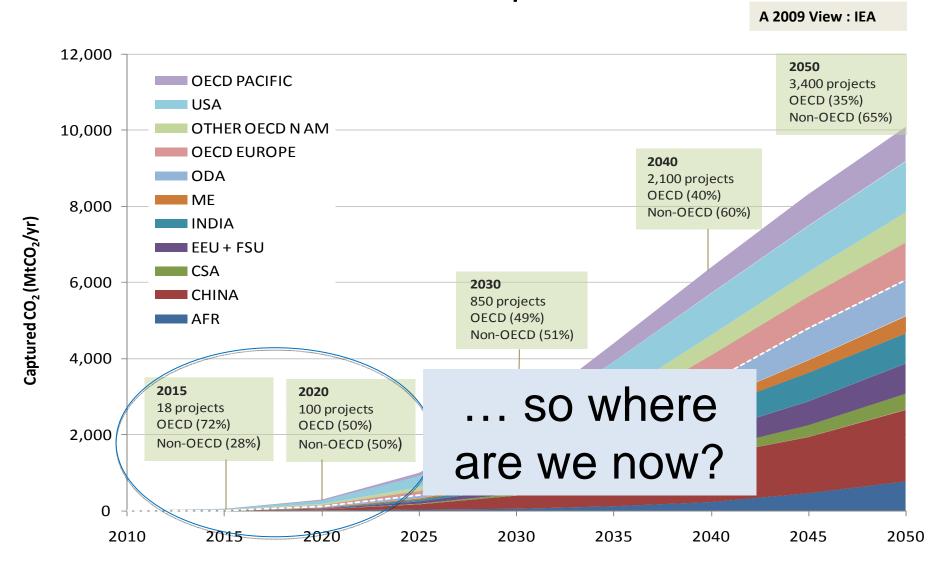
#### CCS: IEA Roadmap to 2050



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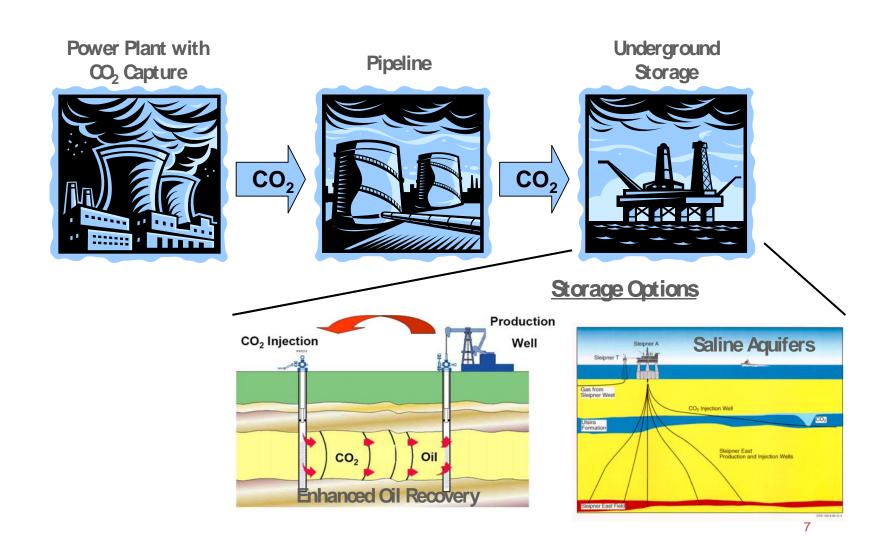


#### CCS: A Roadmap to 2050



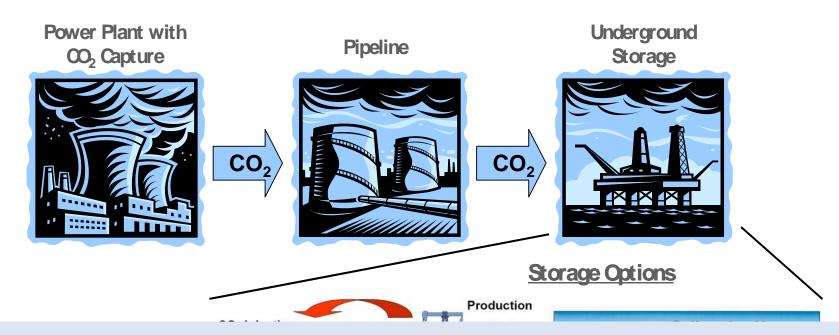
#### CARBON CAPTURE AND STORAGE

#### IMPORTANCE OF INTEGRATION ACROSS WHOLE CO2 CHAIN



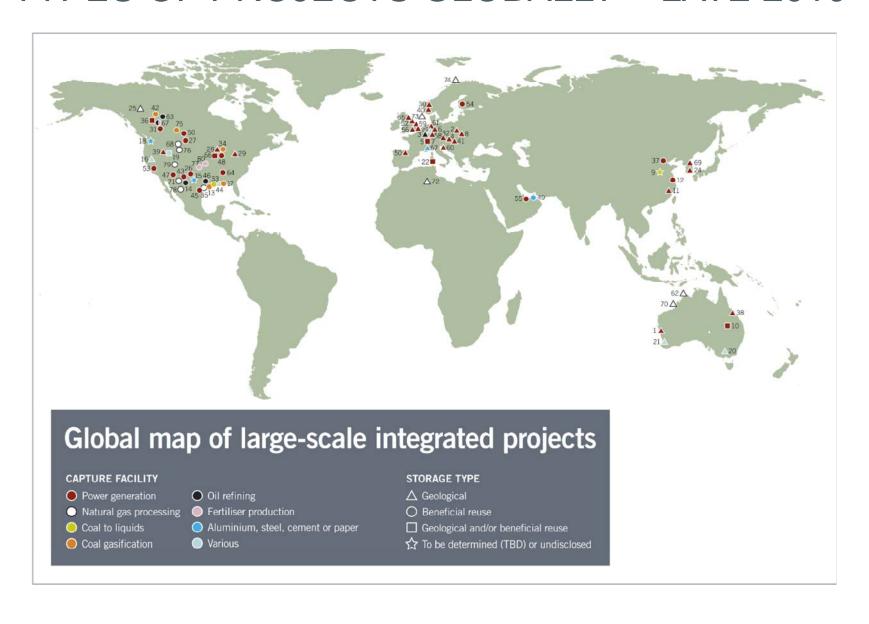
#### CARBON CAPTURE AND STORAGE

IMPORTANCE OF INTEGRATION ACROSS WHOLE CO2 CHAIN

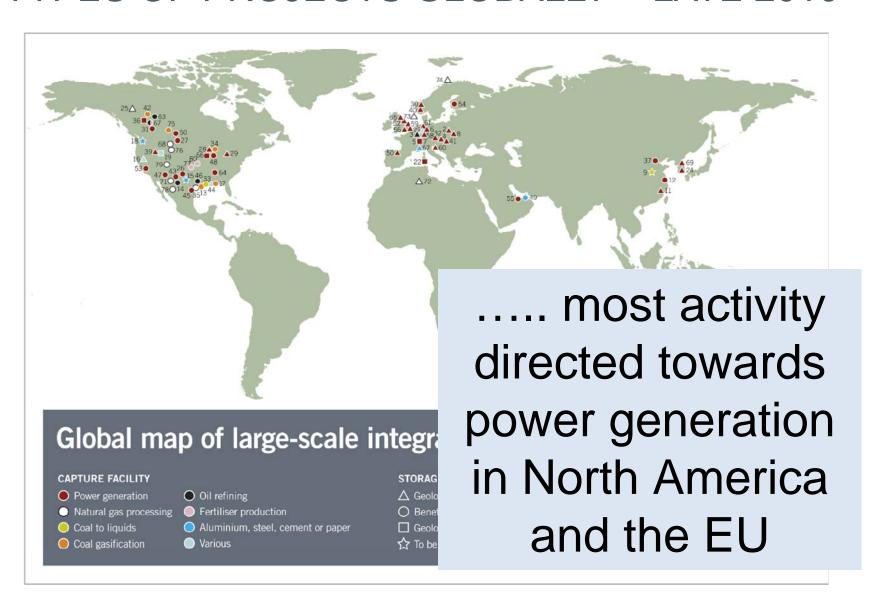


CCS needs the most efficient plant and components – synergistic with drive for greater efficiency and performance

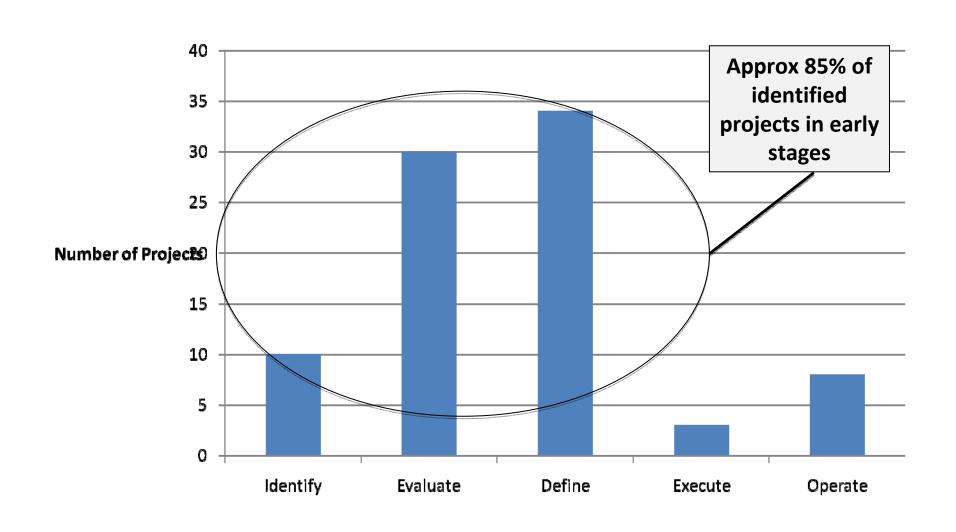
#### TYPES OF PROJECTS GLOBALLY - LATE 2010



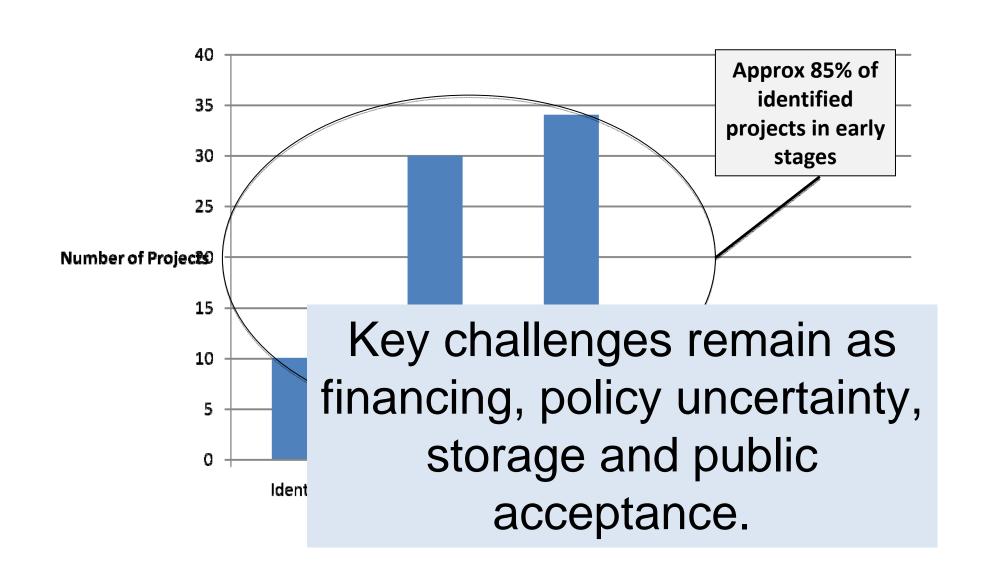
#### TYPES OF PROJECTS GLOBALLY - LATE 2010



#### LARGE PROJECTS BY ASSET LIFE CYCLE



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#### INSTITUTE AIM AND ASPIRATIONS

The Global CCS Institute brings together the public and private sectors to build and share the know-how and expertise necessary to ensure that CCS can make a significant impact on reducing the world's greenhouse gas emissions.

#### OVERARCHING OBJECTIVE

### "To accelerate the broad deployment of commercial CCS"

Institute has injected a much needed impetus into the global CCS scene

#### CURRENT MEMBERSHIP Legal Member breakdown

Legal Members as of November 2010: **252** from a total of **278** participating organisations.



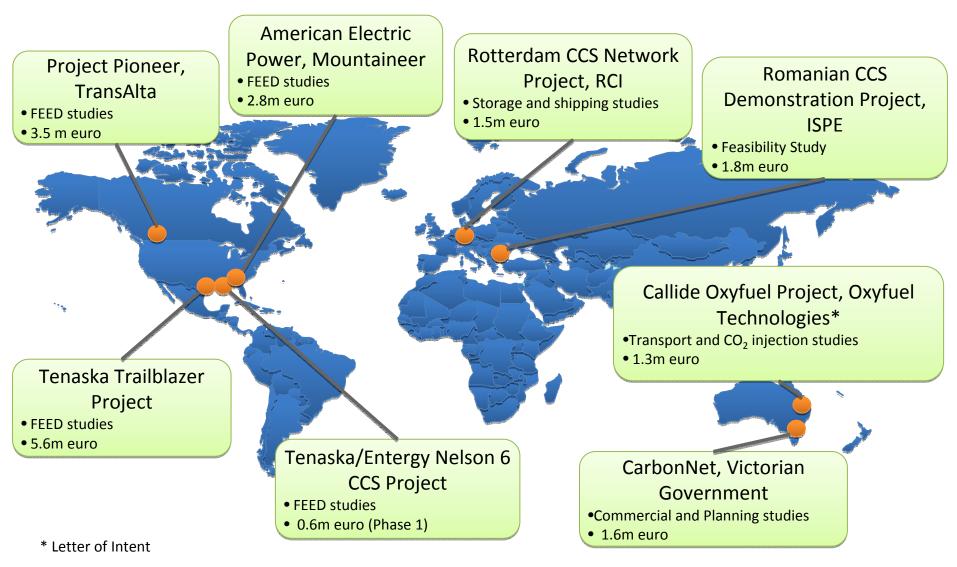
### FOCUS AREAS FOR THE GLOBAL CCS INSTITUTE

> SHARE KNOWLEDGE

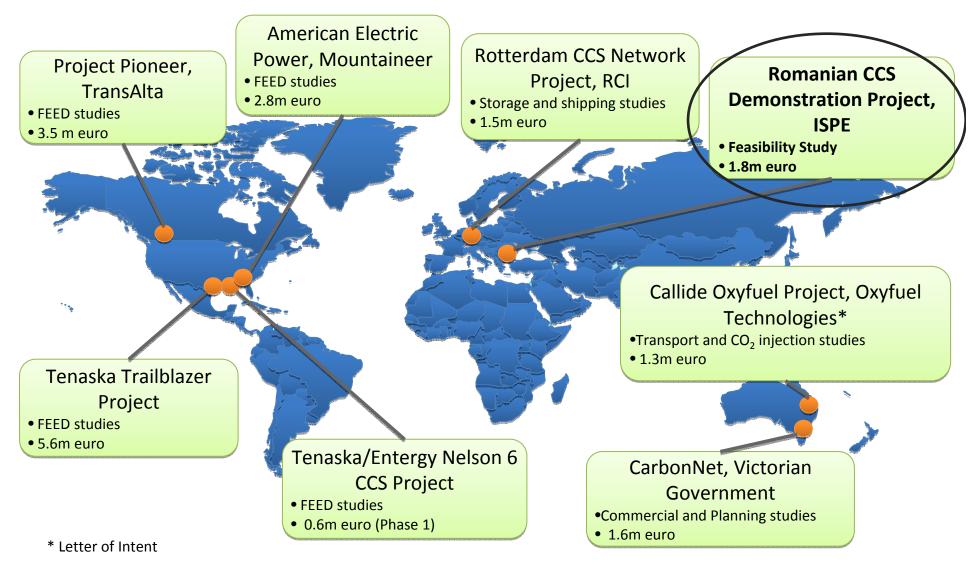
➤ UNDERTAKE FACT-BASED ADVOCACY

SASSIST PROJECTS TO BRIDGE KNOWLEDGE GAPS, ESPECIALLY AMONGST EARLY MOVERS

#### Global CCS Institute supported Projects



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#### KEY GENERAL OBSERVATIONS

- Sharing of information will be critical for acceleration of development and deployment of CCS and other low Carbon technologies
- Unprecedented need for greater effective collaboration worldwide
- Regional actions will be important in fulfilling the success of this approach

#### SPECIFIC UNECE OBSERVATIONS

- Financing of all types of plant remains critical
  - ☐ Energy efficiency/performance improvement
  - ☐ Transition to lower C trajectory
    - ✓ CCS ready
    - ✓ CCS deployment
- Support all UNECE actions addressing issues
  - ☐ Transfer of knowledge and experience through regional workshops, country analysis, database for standards, case studies

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Practical way of accelerating of deployment through knowledge transfer into and outwith UNECE countries

#### **GLOBAL CCS STATUS 2010**



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**END**