



● Challenges for CCS in Europe

Directorate-General
for Energy

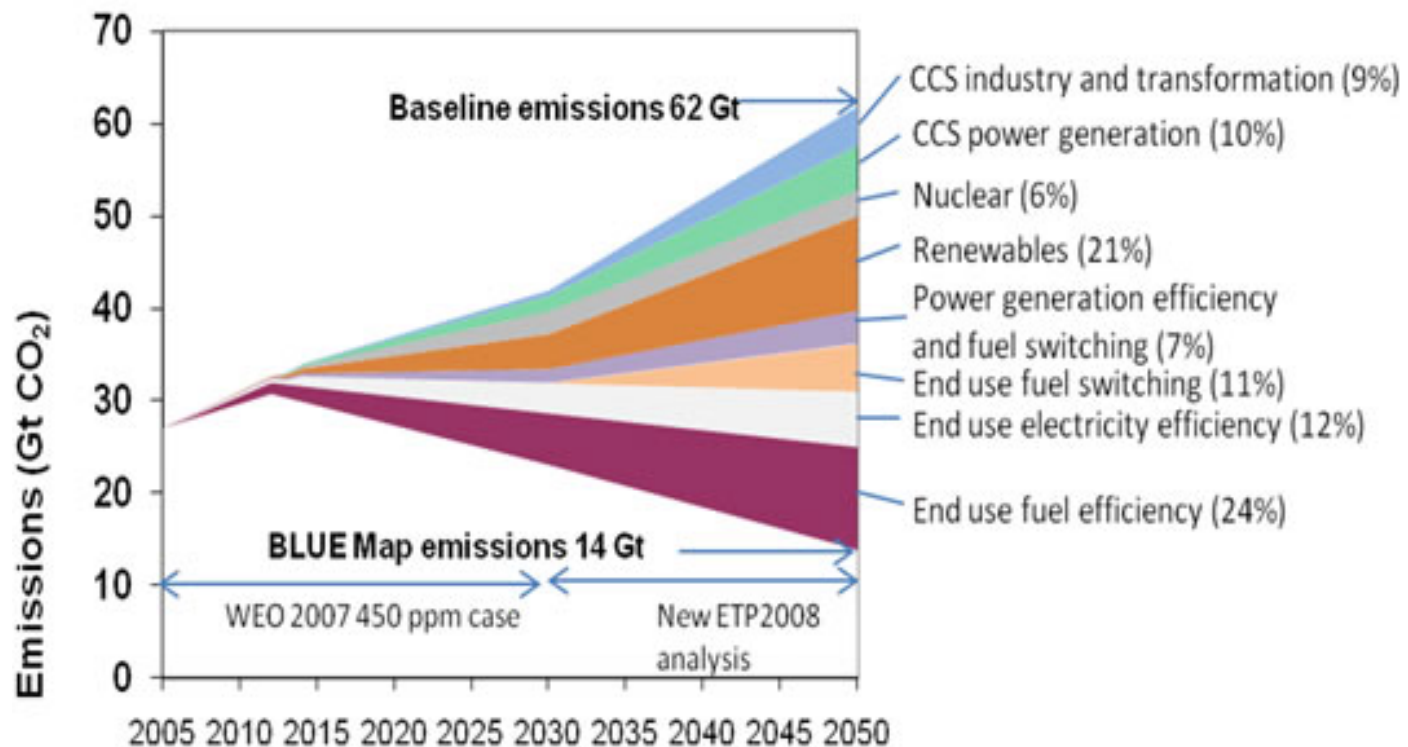


European Commission, DG Energy
Heinz Hilbrecht
Director
Directorate B, Security of Supply, Energy Markets & Networks

10/11/2010 – Clean Coal For Europe, Making CCS work

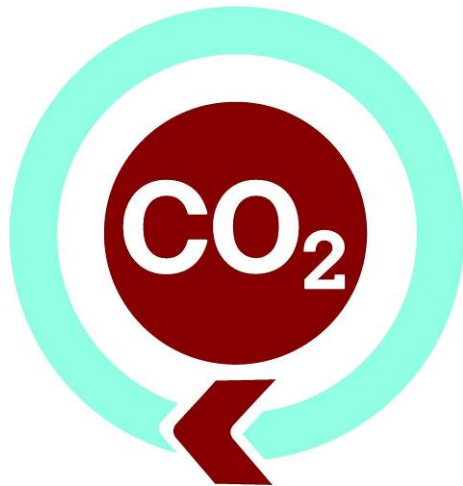
Why CCS?

According to IEA, 19% of the achievable CO₂ reductions by 2050 can be achieved by CCS



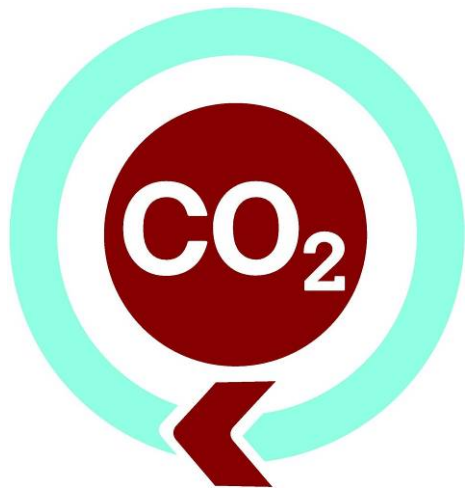
Source: IEA

● EU Policy Goals



- Short Term
- Mid Term
- Long Term

● EU Policy Goals



● Short Term Goal

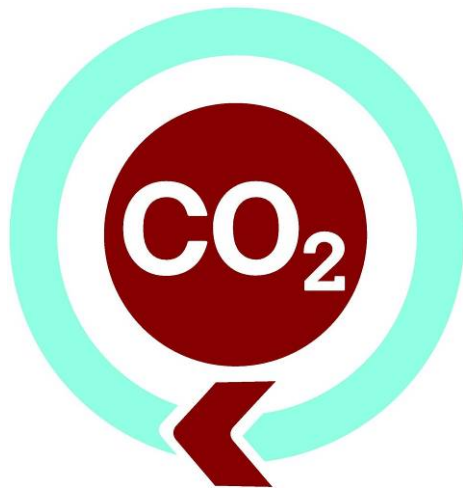
- » Transposition of CCS Directive into national legislation
- » Demonstration of CCS by 2015

Short Term: Demonstrate CCS by 2015

€1bn funding for 6 projects committed
instrument NER 300 to provide additional financing



● EU Policy Goals



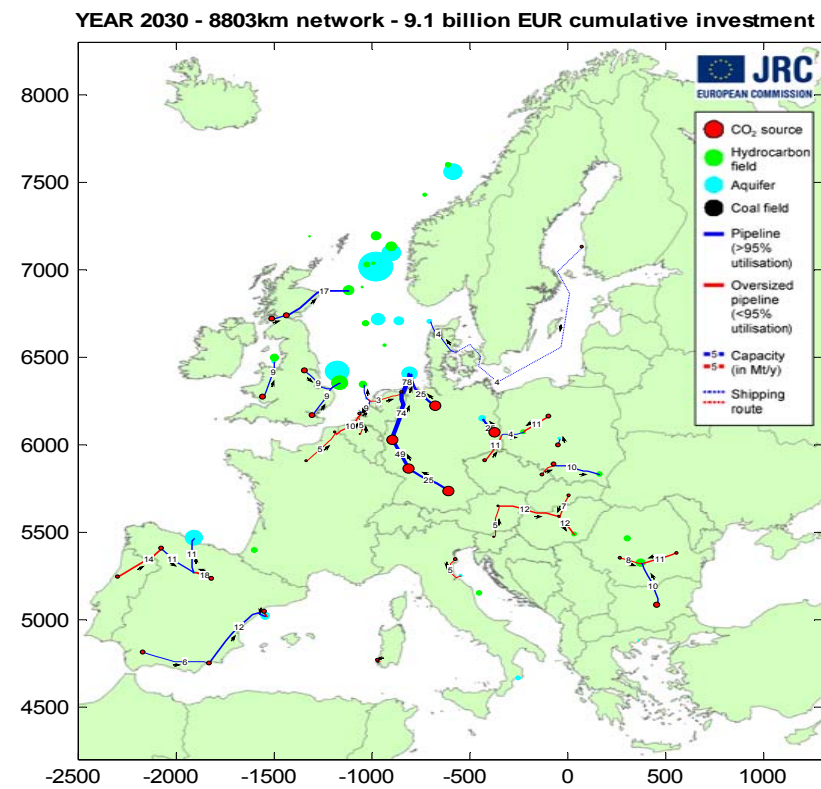
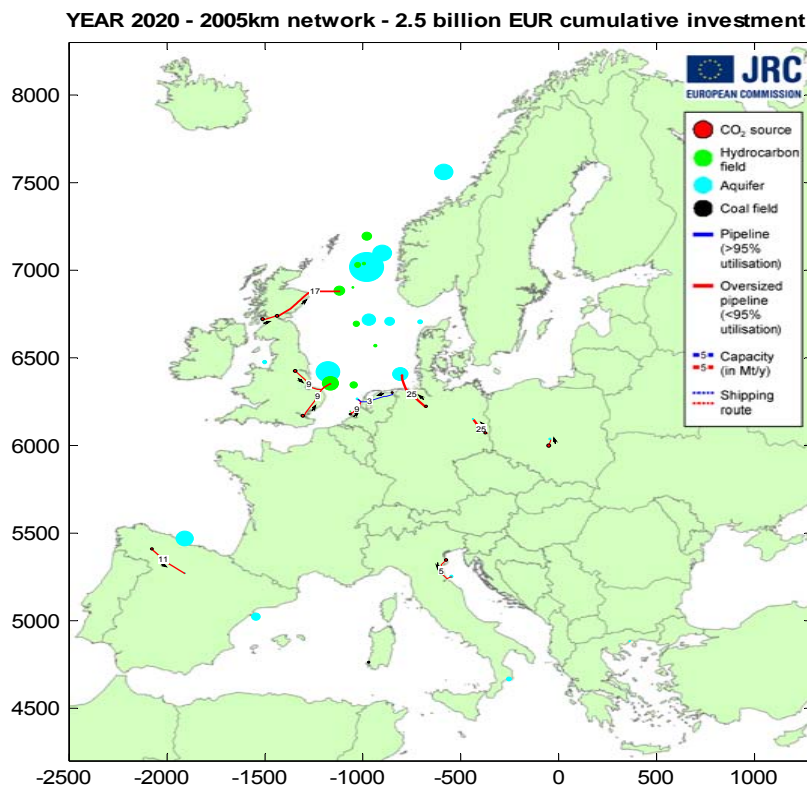
● Mid Term Goal

- » Commercially viable CCS by 2020
- » CCS demonstration also for gas fired power plants and energy intensive industry
- » Development of CCS Infrastructure

Mid Term: CO₂ Infrastructure

possible developments 2020/2030

CCS infrastructure included in EC's infrastructure communication



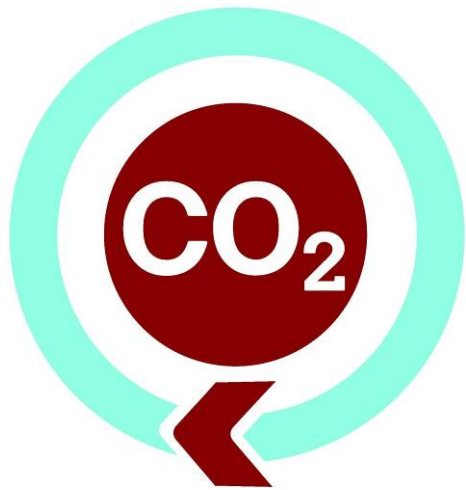
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CCS DEMONSTRATION



● EU Policy Goals



● Long Term Goal

- » Majority of Fossil Fuel Power Plants and energy intensive industry equipped with CCS after 2030

Conclusions

Actions to realise all goals need to start now

- Immediate joint effort of EC, MS and industry are needed to realise CCS demonstration:
 - » CCS directive has to be transposed quickly
 - » Sufficient funding has to be provided to support CCS demonstration
 - » Joint efforts needed to work towards higher public acceptance
- Development of CCS infrastructure for the deployment phase after 2020 has to start now
- Realisation of market opportunities: approx. 3400 CCS power plants are needed by 2050 worldwide to realise the potential of CCS for mitigating climate change.

● Thank you for your attention

