

**CSLF Technical Group  
Stakeholder Session  
Delhi  
3<sup>rd</sup> April 2006**

## **EC/EU DYNAMIS Project**

**“Towards Zero Emission Power Generation and Hydrogen”**

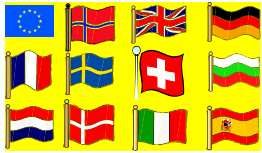
EC Contract no 019672



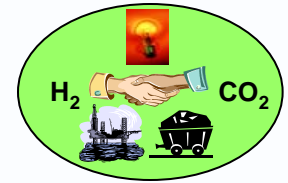
**Nick Otter**

Director of Technology and External Affairs, ALSTOM Power Ltd

**ALSTOM**



# DYNAMIS : The Project



## DYNAMIS – latest element to EU/EC portfolio

- Preparing the way for zero emission and hydrogen
- Early part of EC HYPOGEN initiative

**Aim** : to provide a coherent view of :-

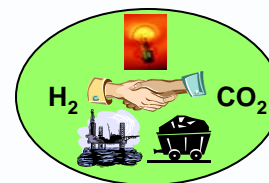
- ❑ Options for CCS plants in Europe
  - Fuels
  - Preferred Technology
  - Example locations
  - Storage and EOR possibilities
  - Financing schemes
  - Regulatory restraints and possibilities
- ❑ Non-technical barriers
  - Societal views of a Hypogen demonstration

**Budget :** 7.5 m euro  
**Timeframe :** 3 years  
**Kick-off :** Oslo 10March06

**Output** : pre-engineering basis suitable for uptake as part of overall strategy to achieve `zero emission` power generation



# DYNAMIS : The Players

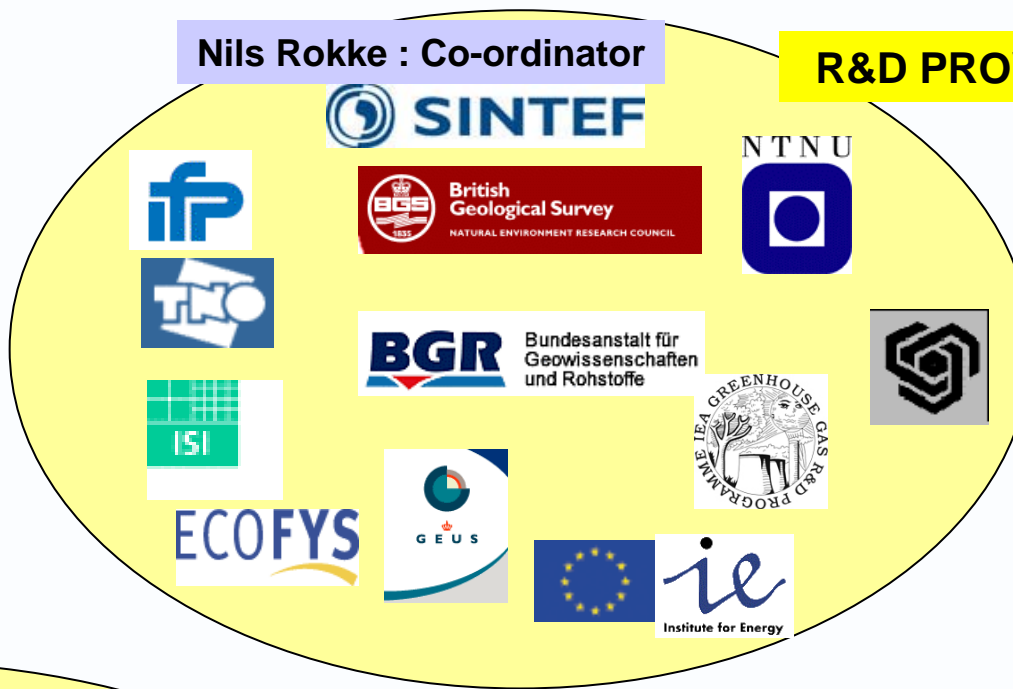


## ENERGY PROVIDERS

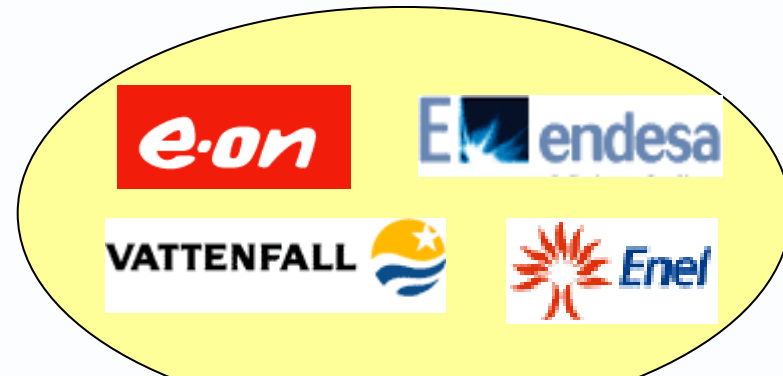


Nils Rokke : Co-ordinator

## R&D PROVIDERS



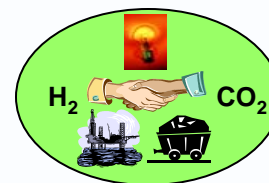
## MANUFACTURING, ENGINEERING+FINANCING



## POWER COMPANIES



# DYNAMIS : The Schedule



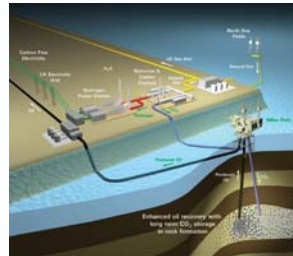
	Year 1	Year 2	Year 3
<b>SP1: Project management and administration</b> <b>Lead project milestones</b>	◆ Project Launch	◆ Mid-term review	Final workshop ◆
<b>SP2: Power plant &amp; capture technology</b>	Support to SP5		
<b>SP3: Product gas handling</b>	Support to SP5		
<b>SP4: Storage of CO2</b>	Support to SP5		
<b>SP5: Planning and pre-engineering of plants</b>	Support/ limited activity		◆
<b>SP6: Societal anchorage of a HYPOGEN demo</b>			



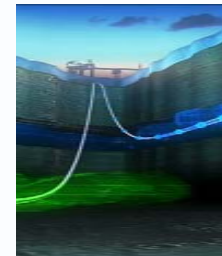
Pic. Siemens



Pic. Vattenfall



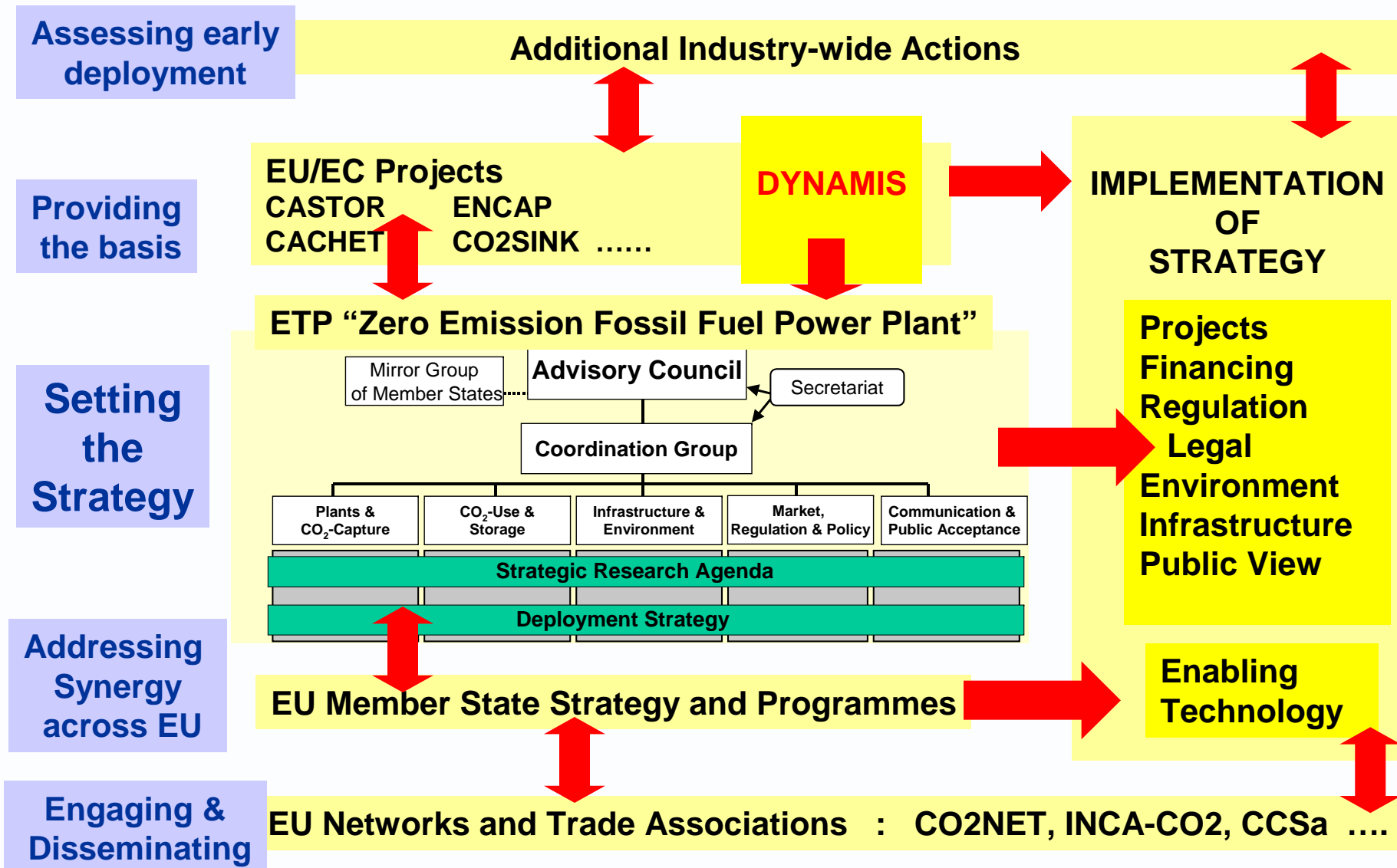
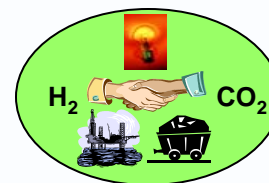
Pic. BP



Pic. Statoil

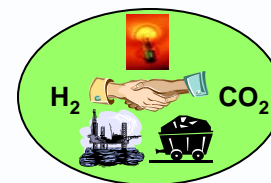


# DYNAMIS : The Strategic Position





# DYNAMIS : The Acronym



- **Originally DUNAMIS**

*"**D**emonstration in the european **UN**ion of **A** **M**ajor **I**ndustrial power plant with co2 capture, transport and **S**torage"*

- **Importance of Hydrogen issue and preparation for way forward**

- **DYNAMIS emerged due to the Greek meaning of the word and the idea to maintain the basic foundation of DUNAMIS**

*"A Greek word for force, pertaining to the forces that produce change"*

*"resembles `Dynamic` and response to change"*

The background features a blue and white striped pattern with a large red curved shape on the left side. The Alstom logo is centered in the white area.

**ALSTOM**

[www.alstom.com](http://www.alstom.com)