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# ***CO<sub>2</sub> Capture and Sequestration***

## ***- Project Portfolio and Outcome of the first call of FP6***

**DG Research**  
**Energy Production and Distribution Unit**



**Directorate General for Research**



# A Starting point - Current Project Portfolio

Project	Topic	cost (m€)	funding (m€)	co-ord.	
<b><u>CAPTURE</u></b>	AZEP	Advanced membrane cycles	9.3	3.4	Alstom
-	GRACE	Capture in processes	3.2	2.1	BP
<b><u>SEQUESTRATION</u></b>	GESTCO	Sequestration Potential	3.8	1.9	GEUS
-	CO2STORE	SACS2 follow-up on land	2.4	1.2	Statoil
-	NASCENT	Natural storage analogues	3.3	1.9	BGS
-	RECOPOL	Enhanced coal bed methane	3.4	1.7	TNO
<b><u>SEQ. MONITORING</u></b>	WEYBURN	Weyburn monitoring	2.2	1.2	BGS
-	SACS2	Monitoring Sleipner	2.1	1.2	Statoil
<b><u>NETWORKING</u></b>	CO2NET	ERA Dimension - networking	2.1	1.4	Tech.
		<b>TOTAL</b>	<b>31.8</b>	<b>16.0</b>	





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# FP6 - 1st call - outcome

## Successful Integrated Projects (IPs)

Acronym	Cost (EC Funding)	Co-ordinator
CO2SINK	14.9m€ (8.7 m€ )	Postdam Research C. (DE)

Pilot scale capture and storage test of CO<sub>2</sub> in an existing natural gas storage facility in the Berlin area and in a deeper on-land saline aquifer; monitoring thereof (Start Date: ~March 2004)





# FP6 - 1st call - outcome

## Successful IPs

Acronym	Cost (EC Funding)	Co-ordinator
ENCAP	22.2m€ (9.8 m€)	Vattenfall (Sweden)

New pre-combustion techniques and processes for power generation based on fossil fuels, including coal. Pre-combustion, oxyfuel combustion, chemical looping, high temperature oxygen generation and novel concepts. (Start Date: ~March 2004)





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# FP6 - 1st call - outcome

## Successful IPs

Acronym	Cost (EC Funding)	Co-ordinator
CASTOR	15.9m€ (8.5 m€ )	IFP (France)

Post-combustion capture technologies and sequestration confidence-building, including strategy for CO<sub>2</sub> reduction, post-combustion capture, infrastructures and logistics, geological sequestration, risk management and corrective actions.  
(Start Date: Feb. 2004)





# FP6 - 1st call - outcome

## Successful Network of Excellence (NOE)

Acronym	Cost (EC Funding)	Co-ordinator
CO2GEONET	9m€ ( 6 m€)	BGS (UK)

Integration of a critical mass of 13 research institutes in the area of underground CO<sub>2</sub> storage, covering

- predictive numerical tools
- rock and fluid behaviour experiments (Start Date: April 2004)
- enhanced hydrocarbon recovery
- monitoring techniques
- risk and uncertainty management





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# FP6 - 1st call - outcome

## Successful STREP

Acronym

Cost (EC Funding)

Co-ordinator

ISSC

3m€ (2 m€)

Univ. Stuttgart (Germany)

A new process technology based on steam gasification for brown coal, with in situ capture of CO<sub>2</sub> by sorbents and shift reaction - leading to hydrogen production. (Start Date: Jan. 2004)





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# Plans for the revision of the work-programme

- × Informal stakeholder consultations: ongoing
- × EOI call - open now - close on March 17th at 1700
- × International cooperation to be encouraged using for e.g CSLF.
- × Consultation in parallel with AGE, ad-hoc group of the Committee
- × Drafting and approval process : from April 04 to July 04
- × Opening of the call for proposal : September / October 04
- × Close of the call for proposals : end December 04







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# International Cooperation

- ✘ International cooperation actively encouraged for EC projects
- ✘ Some EC projects to be proposed for CSLF endorsement following consultation with consortia.

