



European Commission

Enhanced Capture of CO₂

Project funded by the European Commission

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Aim of the project

ENCAP aims at technologies that meet the target of:

- **at least 90% CO₂-capture rate and**
- **50% CO₂-capture cost reduction.**

ENCAP is an integrated project (IP) having an impact of the results on the medium to longer term.

Objectives

The main objective is to develop new pre-combustion CO₂-capture technologies and processes for power generation based on fossil fuels that are conceived as affordable and clean, and which can be integrated with sustainable energy systems.

Work Program

The RTD activities of the project are structured in 6 sub-projects that directly meet the objectives of the Work Programme (WP). These sub-projects are:

- **SP1:** Process and Power Systems
- **SP2:** Pre-Combustion Decarbonisation Technologies
- **SP3:** OxyFuel Boiler Technologies
- **SP4:** Chemical Looping Combustion
- **SP5:** High-Temperature Oxygen Generation for Power Cycles
- **SP6:** Novel Pre-Combustion Capture Concepts.

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Starting Date: 01/01/04

Project Duration: 60 month

Budget: 22,171,000€

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Leaflet Produced by CERTH/ISFTA

The Consortium

- 5 large European fossil fuel end users,
- 11 leading technology providers
- 12 high ranked RTD providers



Expected Results

- Performing research and development on pre-combustion CO₂ capture and validate by testing technical and economic feasibility of concepts, and also interact with research-related networks and carry out training and dissemination.
- ENCAP will generate knowledge and results that enable power companies to decide to launch a new design project by 2008-2010 aimed at a large-scale demonstration plant.
- Enhancing the competitiveness of European industry
- Contributing to the creation of a European Research Area for CO₂ capture.

