



## CCS actions in France

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- **R&D**

*Involvement in European programs, in CSLF, 10 M€ national call for projects last year, IFP and BRGM programs, ...*

- **Stakeholders involvement, networking & communication**

*International symposium in Paris in 2005, publications, “factor 4” working group, ...*

- **Legal issues**

*Report to the French government in progress*

**-> One of our main goals :**

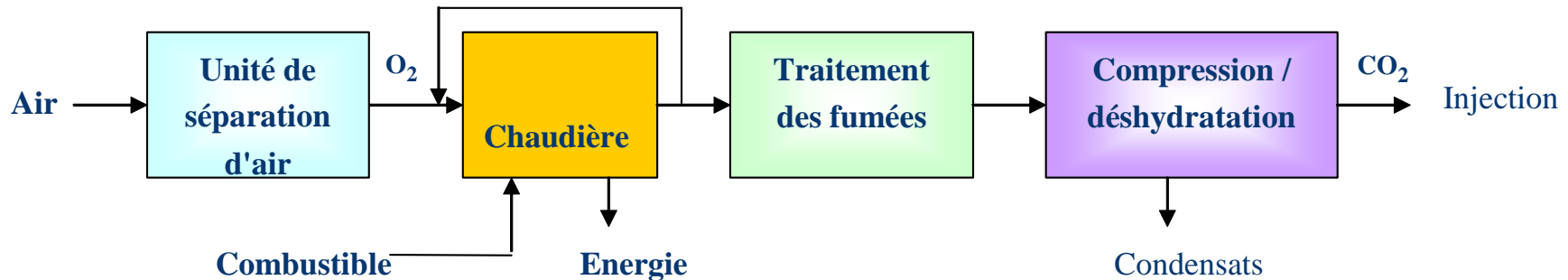
**Launch a demonstration project in France**

*Group Total project to start in 2008 (Lacq field - South West of France), investigation in “Bassin Parisien”, ...*

## TOTAL in France: oxycombustion with CO<sub>2</sub> capture

Before 2008, upgrade of an existing boiler in Lacq, to enable oxy-combustion.

The goal is to use this technology at the scale of 50 MW th.





## *How to divide French greenhouse gas emissions by 4 before 2050 ?*

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→ **TASK FORCE** (*launched on September, 8<sup>th</sup> 2005*)

- **30 people** from the industry, trade unions, NGOs, experts, public authorities, ...
- **How to reach the “factor 4”** ? (taking into account ecological, economical & social goals)
- **CCS solutions** will be considered by this task force

**REPORT TO BE DELIVERED BEFORE SUMMER 2006**



## ANR projects launched in 2005

amines, adsorbates

**CAP-CO2**

antisublimation

**CO2-SUBLIM**

chemical looping

**CLC-MAT**

**Capture & Transport**

TransCO2

**8,3 M€**

Geocarbone

**INJECTIVITE**

CO2 injection

Geocarbone

**INTEGRITE**

confinement

Geocarbone

**PICOREF**

Sites evaluation

Geocarbone

**MONITORING**

monitoring

Geocarbone

**CARBONATATION**

Long term behaviour

*Storage*

**France is actively involved in ZEFFPP platform, in many European projects and leader of CASTOR and InCA-CO<sub>2</sub>**



Post-combustion capture  
pilot plant launched in  
Denmark  
March, 15th 2006



"International Co-ordination Action on CO<sub>2</sub> Capture and Storage"



European Network  
of Excellence

And many others ...