



# ALF-CEMIND

The use of alternative fuels & raw materials in the  
cement industry

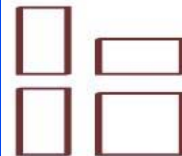
Introduction of ALF-Cemind study tour

Victor van Heekeren  
August 29, 2007



## Background & 'red line'

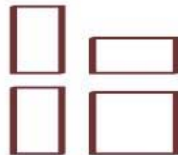
- Budapest, November 2004 : Workshop on Alternative Fuels, Secondary Raw Materials & Energy Efficiency. Hosted by Duna Drava Cement plant.
- This – amongst other arguments – helped to form the current ALF-CEMIND consortium.
- Workshops conducted in Romania, Bulgaria, Greece, Turkey in first half of 2006
- Common interest during workshops in utilisation of sludge as both alternative fuel and raw material
- Sewage Sludge available in most places



# Programme

- Proposed ALF-CEMIND activities included a study tour ('Best Practices' plant visit)
- ENCI Maastricht interesting cement plant from the point of view of alternative fuels (> 80% of fuel input) and raw materials – including dried sewage sludge
- Nearby Lixhe Plant utilises 'wet' sewage sludge (i.e. dewatered but a lower dry solids content than dried sludge)
- Also in reasonable vicinity : sewage water treatment plant including preparation & drying of sewage sludge – so for both wet and dry process

Study Tour  
"The Use of Alternative Fuels in the Cement Industry"  
August 29 and 30 2007 Maastricht



# Programme

- General introduction Mme Claude Lorea
  - Visit to Sewage Water Treatment Plant
  - Welcome dinner in hotel
  - Lixhe Plant Visit
  - ENCI Plant Visit
- (More detailed programme including starting times and list of participants is available).

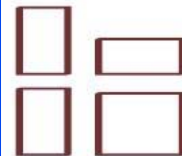
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# The Partners

1. **EXERGIA, Energy & Environment Consultants, Greece (coordinator)**
2. **SEC, Sofia Energy Centre – today's host & organiser**
3. **TRAPEC, Romania, Energy Efficiency Department**
4. **Van Heekeren & Frima Consultants, The Netherlands**
5. **C.I.E., Cyprus Institute of Energy, Cyprus**
6. **MERKAT, Energy-Environment-Industry Manufacturing, Marketing, Consulting and Representation, Turkey.**

**With the assistance and support of CEMBUREAU and external contractors – a.o. KHD**



# Project structure

## 4 Phases/work packages

### 1. Project management and coordination

Note : steering Committee and 'list of stakeholders'

### 2. Technology transfer

Workshop per country (as now in Sofia)

Study tour to cement plants (end of August this year)

### 3. Preparation of pre-feasibility studies

One study per country (choice of cement plant) = next phase

### 4. Consolidation of results and dissemination

Integration of pre-feasibility studies, final workshop in Brussels

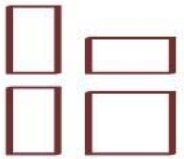
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# Aerial view Maastricht Plant



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## Further information & contact points

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Thank you for your  
attention!

**Van Heekeren & Frima**   
management consultants

