



Project Summary

Supporting the use of alternative fuels in the cement industry

ALF-CEMIND

Action Line: Thematic Promotion and Dissemination

Contract Type: Specific support actions

Coordinator:

Organisation: EXERGIA, ENERGY MANAGEMENT AND INFORMATION CONSULTANTS S.A.
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Project details

Reference:	Promo/020118/2005	Start Date: 17/06/2006
Status:	Execution	End Date: 14/12/2007
Project Cost (€):	400.981	Duration (months): 18
Project Funding (€):	349.902	

Summary

The range of alternative fuels that may be used in cement production is extremely wide and diverse, including materials like waste oils, plastics, auto shredded residues, waste tyres, sewage sludge and all kinds of slaughterhouse residues. However, to the moment only small volumes (10 - 20%) of the fuel requirement are achieved though in some advanced installations percentages of 80% and more are reported (tyres or petcoke). The main problems are related to technical constrains regarding ignition and burn out properties, particles size and built-up of volatile compounds.

A number of innovative solutions have been developed by engineering companies to address these problems and pave the way for polygeneration with the use of alternative fuels and secondary raw materials in cement industry. They have been demonstrated in two case-studies in Norway and Hungary.

The proposed project has been designed to disseminate technical knowledge and experience from the implementation of these solutions, with the overall objective to assist the take-off of polygeneration in the cement industry leading to energy, environmental, societal and economic benefits. The targeted sector of the cement industry will be that of Greece, Romania, Bulgaria, Poland, Cyprus and Turkey where the potential for improvement and better utilisation of the existing infrastructure in the cement industry is significant. However, the project results will be disseminated widely to the EU cement industry in all countries. The project will be carried out by a team of 7 partners from Central and South-eastern European countries with heavy involvement in industrial technology issues including a consultant that have been involved in one of the existing applications. A list of cement plants around Europe have already expressed their interest in the project results and in participating in information dissemination activities.



Partners

1	EXERGIA, ENERGY MANAGEMENT AND INFORMATION CONSULTANTS S.A.	GR
2	Sofia Energy Centre	BG
3	TRACTEBEL PROJECT-MANAGERS, ENGINEERS AND CONSULTANTS	RO
4	Van Heekeren & Frima Management Consultants bv	NL
5	Cyprus Institute of Energy	CY
6	MERKAT Energy-Environment-Industry Manufacturing, Marketing, Consulting and Representation Inc.	TR