

Core partner:



4EM – MCP is cofinanced by:



4EM – MCP

Motor Challenge Programme - Energy Efficient Electric Motor Systems in
New Member and Candidate Countries

[PCPC]

4EM-MCP - Kick Off meeting Introduction

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PCPC

- **Since 1995 on the Polish Market**
- **Non-profit organization**
- **Company neutral**
- **Member of European Copper Institute [ECI]**

Main Activities

- Electrical Programmes
 - **Sustainable Electrical Energy [SEE]**
 - **Energy Efficiency Motors (PEMP)**
 - **HE Distribution Transformers (Supertrafo)**
 - **Power Infrastructure Modernisation (PIM)**
 - **Power Quality [LPQI]**
 - **Electrical Installations [FEEDS]**
- Copper Tube Installations
- Copper in Architecture

High Efficient Motors Initiative

- **Pilot Projects with HEM**
- **EfeMotor** software (based on Motor Master)
- **Conferences** dedicated to:
 - decision-makers
 - energy producers, suppliers and consumers
- **PEMP – Polish Energy Efficient Motors Programme** (co-operation with FEWE)

* PEMP is the executive programme, supported by GEF (Global Environmental Facility), FEWE, KAPE, UNDP and PCPC. It concerns electric motor systems (motor, control, transmission, driven machinery) and it is intended to utilize the economic potential for energy efficiency improvement in Polish economy.

4EM-MCP

Full title of the Action:

Motor Challenge Programme – Energy Efficient Electric Motor Systems in New Member and Candidate Countries

Contract N°: **EIE/05/193/SI2.419685**

Duration: **36 months** (Start of the Project: **January, 2006**)

IR submission deadline: **24th month**

Coordinator name/ organisation/ e-mail/ telephone number:

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4EM-MCP

- **focuses** on **disseminating, extending** and **applying** MCP tools in New Member and Candidate Countries
- **oriented** to raise energy efficiency awareness of policy makers and industry by:
 - market investigation,
 - evaluation of energy efficiency potential,
 - evaluation tools,
 - dissemination
 - enterprise interventions.

Objectives

- to integrate the use of the MCP Tool Set into the national programmes,
- to reach the IEE programme general target
- to integrate New Member and Candidate Countries in EU
- complements on-going GEF/UNDP Project PEMP.

. **Dissemination**, through a comprehensive programme of technically sound publications, seminars, show cases projects, training courses and communication through websites focused on target audience and through engaging new MCP Sponsors.

. **Evaluation tools**, that will lower the "entry barrier" to energy efficiency. 4EM-MCP would distil the essence of the MCP and other tools adapting them to the targeted countries markets (see paragraph 4.2.3 for details), so as to ease their application in SMEs, including in situations where no publicly sponsored intervention is carried out. A software with the database for supporting decision process will be developed.

. **Market investigation and evaluation of energy efficiency potential**, by gathering information on the market penetration of energy efficient electric motor systems, on past, ongoing and planned activities for efficiency improvements in electric motor systems and by evaluating the energy efficiency potential in electric motor systems in the geographical area of programme.

. **Enterprise interventions**. These interventions will be of the following types: demonstration projects, audits and EE investments projects, disposal of financial sources,. Enterprise interventions will result in show cases projects and will be used in the dissemination activities.

Key actors

- **European Commission**
- **Industry Trade Associations**
- **Motor Manufacturers Associations**
- **Individual Motor Companies**

The results

- **greater awareness of energy savings and knowledge of the MCP,**
- **easier access to energy savings for SMEs,**
- **report with statistical information on market penetration of HEM systems,**
- **pilot industry interventions.**

Market extend

- 4 countries (except for western Europe experts) are already involved in the project which aims to enlarge itself to at least other 3 countries.

<u>PARTNERS</u>	<u>SUBCONTRACTORS</u>
Bulgaria	Czech Republik
Hungary	?
Poland	?
Romania	

Summary

Through the SAVE programme, the European Commission has developed a broad range of tools aimed at overcoming these barriers, as the:

- **Motor Challenge Programme (MCP),**
- Audit Programme,
- Life Cycle Costing Guidelines, which aids enterprises in factoring energy costs into purchasing decisions,
- EuroDEEM, a comprehensive computer based information and decision aid tool.

The Western European MCP

provide a powerful tool for change through an integrated approach based on:

- **creating a European framework** to adopt energy savings measures as management priority;
- **raising awareness** of the potential for energy and money saving measures;
- **focusing to provide** maximum reliability, quality of service and cost effectiveness;
- **availability** of a wide range of information;
- **commitment** to energy saving "Action Plans" through use of the MCP tools.

List of Participants

Partic. Role*	Partic. N°	Participant name	Participant short name	Country
CO	1	Polish Copper Promotion Centre	PCPC	Poland
CB	2	Engineering Consulting and Design	ECD	Italy
CB	3	Centre for Promotion of Clean and Efficient Energy in Romania	ENERO	Romania
CB	4	ISR-University of Coimbra	ISR	Portugal
CB	5	ESD-Bulgaria Ltd.	ESDB	Bulgaria
CB	6	Polish Foundation for Energy Efficiency	FEWE	Poland
CB	7	Black Sea Regional Energy Centre	BSREC	Bulgaria
CB	8	Energy Efficiency Agency	EEA	Bulgaria
CB	9	Systemexpert Consulting Ltd.	SC	Hungary

Expected results (direct outcomes)

The results of the initiative will be:

- greater awareness of energy savings, and greater knowledge of the MCP, through the dissemination of the MCP Tool Set, and through specific targeted actions in each participating country;
- easier access to energy savings for SMEs in New Member and Candidate Countries, through the specific MCP procedures adapted to their needs;
- report with statistical information on the market penetration of energy efficient electric motor systems, on past, ongoing and planned activities for efficiency improvements in electric motor systems. Reports from 100 companies audits;
- pilot industry interventions: the project would directly promote application of the MCP tool set in at least 22 plant site interventions.