

CHINA

EuropeAid

Electric Motor Systems Energy-saving Challenge in China

- Efficient Electric Motor Systems -

The project aims to assist industrial users of electric motor systems in switching to high-efficiency motor systems, thus reducing their electricity costs and CO₂ emissions by 1 million tons per year.



Lead Partner

China National Institute of Standardization (CNIS), China

Partners

Institute de Sistemas e Robotica – Universidade de Coimbra (ISR-UC), Portugal

ESCO association of China Energy Conservation (EMCA) Association, China

United Nations Industrial Development Organization Investment and Technology Promotion Office (UNIDO ITPO – China), China

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Project Background

According to the China Medium and Long-term Energy Conservation Plan, electric motor systems account for 60% of the total electricity consumption in China. The actual operational efficiency of electric motor systems is, depending on the industry, 10–30% below international standards. Certain sectors are particularly intensive users of motors but are often unaware of the huge potential energy savings and quick return on investment of upgraded motor systems. The standards, labels and regulatory mechanism for electric motors in China urgently need to be revised to remove low-efficiency motors and to encourage the market for high performers.

Project Objectives

To help over 400 major industrial users of electric motor systems improve the operating efficiency of their systems, and to boost demand for high-efficiency motor systems, while actively supporting the creation of a stimulating policy environment.

Project Activities

- Establishment of the China Motor Systems Challenge Club;
- 8 large workshops with motor system users to communicate the benefits of upgraded motor systems;
- 3 large workshops with motor system producers on new standards;
- 2 annual award ceremonies to give recognition to excellent cases of energy-savings, with large media coverage;
- 3 annual training courses to energy saving companies on motor system upgrades;
- Promotion of a new motor energy efficiency label;
- Project evaluation and dissemination.

Facts and Figures

Total budget: € 1,124,946 (EU contribution: 80%)

Duration of the project: 36 months (starting November 2008)

China National Institute of Standardization (CNIS)

CNIS is in charge of all China energy-efficiency related standards and labels.

CNIS takes the lead role in the project, responsible for the project budget and coordination of all activities.



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ESCO Association of China Energy Conservation (EMCA) Association

EMCA is the national association of ESCOs (Energy Service Companies) with hundreds of members.

EMCA leads the promotion activities towards industrial users of motor systems.



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Instituto de Sistemas e Robotica of University of Coimbra (ISR UC)

ISR UC is a Portuguese private, non-profit institution dedicated to research in the field of robotics.

ISR-UC is the leader of the EuP Motor study and lead technical advisor with relevant international experience.



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United Nations Industrial Development Organization Investment and Technology Promotion Office, China (UNIDO ITPO – China)

UNIDO ITPO – China is a field office of UNIDO in China, drawing on the experience and knowledge of UNIDO.

UNIDO ITPO will add weight to the project, its dissemination, and policy impacts.



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