

CHINA

EuropeAid

China Higher Efficiency Power and Distribution Transformers Promotion Project

- Higher Efficiency of Transformers -

The project aims to promote higher efficiency transformers in China to reduce electricity consumption, emissions of greenhouse gases, and other pollutants.



Lead Partner

International Copper Association Ltd. (ICA China), China

Partners

China National Institute of Standardization (CNIS), China

China Electricity Council (CEC), China

China Electrical Equipment Industry Association (CEEIA), China

Action Sustainable Development (ASD), France

Project Background

Power and distribution transformers, necessary in power transmission and distribution (T&D) lines to transport electricity to end-users (industries, commerce, households), generate losses that are inherent to their operating system. Currently in China, old inefficient transformers are widely used and are responsible for more than 30% of the electricity loss during power distribution. Higher efficiency transformers hold only 3% of market shares in China. A shift from S7/S9 transformers (still widely used in China but gradually reaching the end of their useful life) to S11 and above would save tremendous amounts of electricity in China.

Project Objectives

The project aims to increase the market penetration of higher efficiency transformers (S11 and above) in China, to reduce electricity losses from power transmission utilities and energy-intensive industries, and to cut back on the utilisation of fossil fuels and emissions of greenhouse gases in China, and to improve the air quality.

Project Activities

- Create awareness among end-users (power distribution utilities and energy-intensive industries) on the need to change their procurement policies in favour of higher efficiency transformers;
- Build the capacity of their energy managers and procurement officers on the life cycle cost analysis;
- Develop national standards for energy efficiency ratios S11 to S15;
- Provide assistance to local SMEs by building their capacity on designing and manufacturing higher efficiency transformers and providing them with key market intelligence.

Contact details

Mr Philip Zhang
philipzhang@
copper.org.cn
+86 2163915816



Facts and Figures

Total budget: € 781,832.95 (EU contribution: 80%)

Duration of the project: 36 months (starting December 2009)

International Copper Association Ltd., China (ICA China)

ICA China aims to maximise copper's contribution to saving energy, as well as the environment.

ICA China manages and takes the leading role the project. It supports the initiative of formulating and enforcing relevant regulations and accelerates the adoption of new energy-efficient technologies.



Mr Philip Zhang
philipzhang@copper.org.cn
+86 1068042450 ext. 203

China National Institute of Standardization (CNIS)

CNIS is a research body at the state level directly subordinate to the General Administration of Quality Supervision, Inspection and Quarantine.

CNIS continuously contributes to the promotion of a recycling economy and to achieving sustainable development in China.



Mr Yuejin Zhao
zhaoyj@cnis.gov.cn
+86 1058811721

China Electrical Equipment Industry Association (CEEIA)

CEEIA is a national wide non-profit industrial association and comprises electro technical product manufacturers, scientific research and design institutes, colleges and universities.

CEEIA will be a major contributor to the development of the eco standards for distribution transformers.



Mr Liang Zhang
zhangliang@ceeia.com
+86 1068157615

China Electricity Council (CEC)

CEC is a consolidated and non-profit organisation of all China's power enterprises and institutions.

CEC will be a major contributor to the development of the standards and lead the development of the LCC guidelines.



Ms Zhuo Wang
wangzhuo@cec.org.cn
+86 1063414308

Action Sustainable Development (ASD)

ASD promotes renewable energy and energy efficiency in Asia since 2006.

ASD provides international experts to assist the Chinese action partners for the development of the standards.



*Mr Angelo Baggini
angelo.baggini@ecd.it
+39 3356874930*