

**apqi** EU-ASIA  
POWER  
QUALITY  
INITIATIVE

[www.apqi.org](http://www.apqi.org)

# An initiative to solve Power Quality problems in Asian industries



Thailand



Indonesia



Philippines



China



Malaysia



Vietnam



India

A project implemented by

**COPPER**  
*International Copper Association Ltd., China*

Co-funded by

ASIA INVEST  
  
EUROPEAID  
CO-OPERATION OFFICE

In association with

**apqi** LEONARDO  
POWER  
QUALITY  
INITIATIVE

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## *What is Power Quality (PQ)?*

Uneven quality of the electricity supply causes significant problems in internal electrical distribution systems in manufacturing industries (but also buildings), by disrupting the functioning of electrical and electronic devices. Such causes are often known as harmonics, electromagnetic compatibility (EMC), over/under voltage, generation of spikes, impulses, sags and swells etc. A chain reaction results in higher cost in maintenance and replacement of electrical and electronic devices, but also in production chain interruption and production batches losses, higher electricity bills, lower production output quality, etc. The financial losses can be huge but are often ignored from the management.

## *Objective of the EU-Asia Power Quality Initiative (APQI)*

Surprisingly, improving power quality does not require massive investment: preventive actions are estimated at 5% of the annual losses for a specific site! The solutions to solving power quality problems are in the form of increased awareness and enhanced skills to understand the origins of the problems and implement the necessary technical solutions.

The EU-Asia Power Quality Initiative (APQI) aims at improving power quality in Asian manufacturing industries by creating awareness on the origins of the problems and building capacity on the technical, financial and managerial aspects of power quality. The APQI will therefore allow manufacturing industries in Asia reduce financial costs and improve production outputs.

## *Who will benefit?*

- Managers and Decision-makers
- Electrical engineers and designers
- Suppliers of power quality equipments and services
- Academics and Research institutions
- Policy makers and Regulators
- Industrial and professional associations

## *About APQI*

The EU-Asia Power Quality Initiative (APQI) is a 32-months project implemented by the International Copper Association – China (ICA China) and co-funded by the European Commission's Asia-Invest program. The APQI will build on the successful Leonardo Power Quality Initiative (LPQI), a 3-million euro project funded by the European Commission that has established a strong power quality support network in Europe.

## *APQI Deliverables*

National power quality support networks will be established and capacity building activities will be implemented in **7** countries: **China, India, Thailand, Malaysia, Indonesia, Vietnam and the Philippines**

**11** power quality seminars / workshops will be held, **3 in China, 2 in India, 2 in Thailand, 1 in Vietnam, 1 in Indonesia and 1 in Philippines.**

**24/7**

You can visit APQI website [www.apqi.org](http://www.apqi.org) anytime anywhere to access a complete library of documents, technical articles and training materials on power quality, including technical, managerial and financial aspects, download a powerful e-learning software on power quality, access our large power quality database, register to be on APQI mailing list to receive APQI quarterly newsletter and keep yourself updated about:

- Latest articles and tools available on the APQI web site
- Upcoming events including seminars and training workshops
- New members who join the APQI membership

Over **100** case studies for practical training  
Translated into regional languages

Quarterly newsletter translated into regional languages  
and distributed to over **5,000** audiences

# APQI Partners



International Copper Association Ltd., China

International Copper Association China  
<http://www.copper.org.cn>



Connects Life.™

International Copper Promotion Council (India)

International Copper Promotion Council (India)  
<http://www.copperindia.org>



Electrical and Electronics Institute of Thailand  
<http://www.thaieei.com>

University of Bergamo  
<http://www.unibg.it>



Copper Development Center - South East Asia

Copper Development Center South East Asia  
<http://www.copper.org.sg>



European Copper Institute  
<http://www.eurocopper.org>



Leonardo Power Quality Initiative  
<http://www.lpqi.org>

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## Asia – Invest

The establishment of the EU-Asia Power Quality Initiative (APQI) is a project co-funded by the Asia-Invest program. Asia-Invest is a European Community initiative that aims to promote and support business co-operation between the EU and Asia. More information about Asia-Invest can be obtained from:  
<http://europa.eu.int/comm/europeaid/projects/asia-invest/html2002/main.htm>

[www.apqi.org](http://www.apqi.org)