# China Higher Efficiency Power and Distribution Transformers Promotion

Philip Zhang Bangkok, Nov 13

switchasia

## **Project background**



• Effectivity of transformers



- Improvement of energy efficiency of transformers means
  - alleviating loss of wires of power transmission and distribution grids, reducing investment of upper level grids
  - enhancing use efficiency of power and equipment, alleviating overuse of nonrenewable resources and reducing GHGs emissions



#### **Project background**



• Rewards of higher energy-efficient transformers ?





#### **Objective**





The project seeks to reduce electricity loss by increasing the market penetration of higher efficiency transformers (S13 and above), and by enlarging their market share in China.



## Linking Policy to Supply Chain Actors





#### **Linking Policy to Supply Chain Actors**

Sustainable

Developm

铜业协会(中国)

International Copper Association Ltd., China





#### Promotion of standards: integral part of the up-scaling strategy







## Impact:



POLICY LINKAGES	<ul> <li>3 standards development: MEPS, LCC and Eco-design</li> <li>Finance incentive for higher efficiency distribution transformer launched based on Energy Efficiency Standard (MEPS &amp; Labeling)</li> </ul>
ENVIRONMENTAL IMPACT	<ul> <li>887 million kWh saved &amp; 846,300 tons CO2 emission cut/year</li> <li>Environment-friendly products with recycling materials</li> <li>Reduce the utilization of fossil fuels meanwhile by increasing of energy efficiency</li> </ul>
	<ul> <li>Reduce electricity loss by the increasing of higher efficient transformers</li> <li>Encouraged end users to procurement higher efficiency transformers, and transformer industry adjust products based on demand of energy saving</li> </ul>
SOCIAL IMPACT	<ul> <li>Promote positive evaluation between the resource using &amp; environment burden, energy saving &amp; cost control at the supply chain, and increase the end users aware- ness of sustainable energy consumption that help SMEs to get the benefits from TOC consideration at higher efficient transformers procurements</li> </ul>







#### THANK YOU !

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