

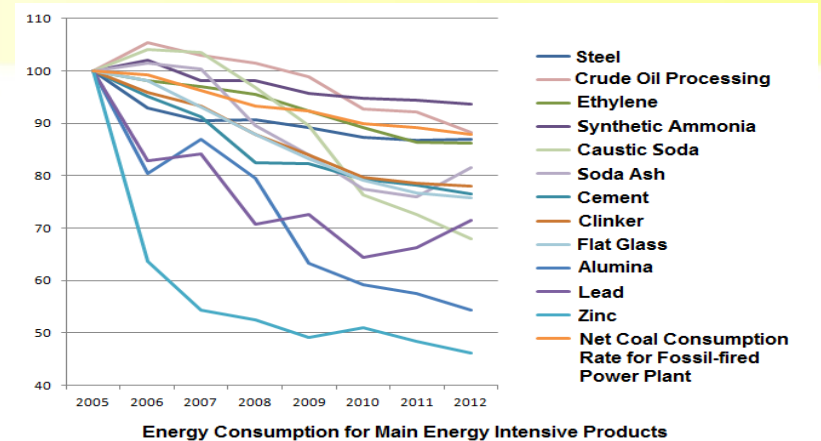
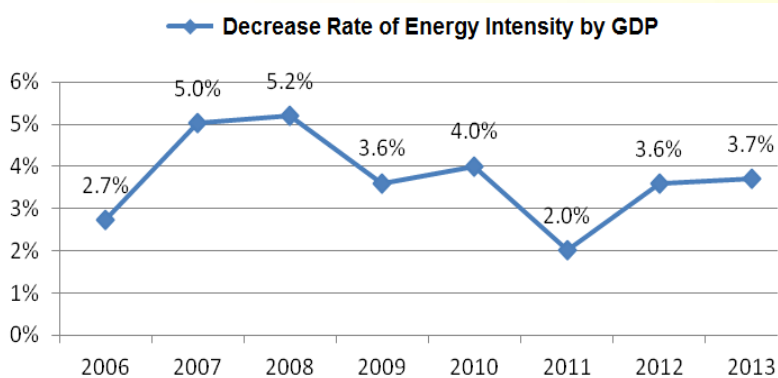
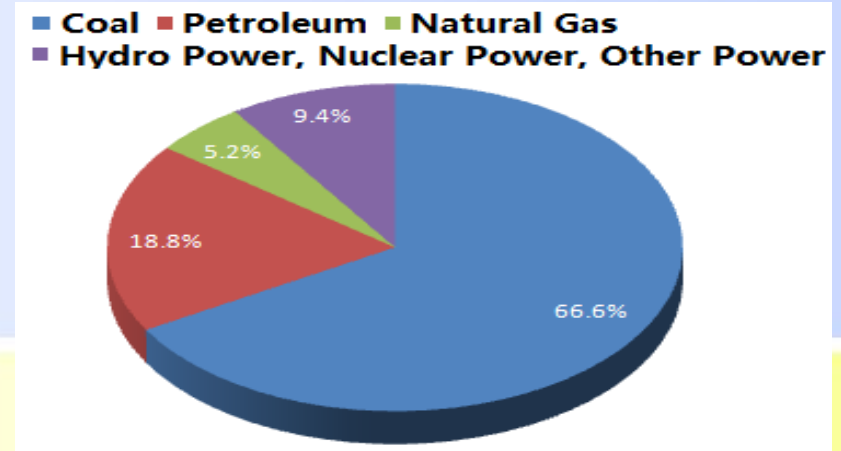
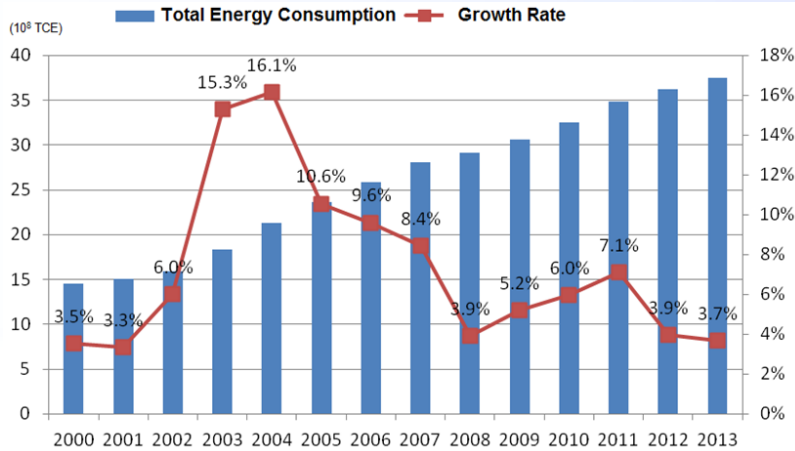
# **ENERGY SAVINGS M&V POLICIES**

*Li Tienan*

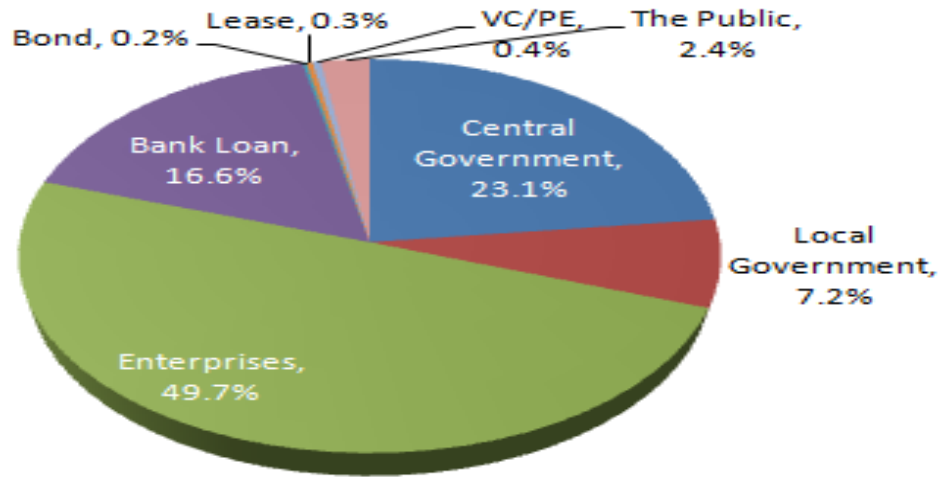
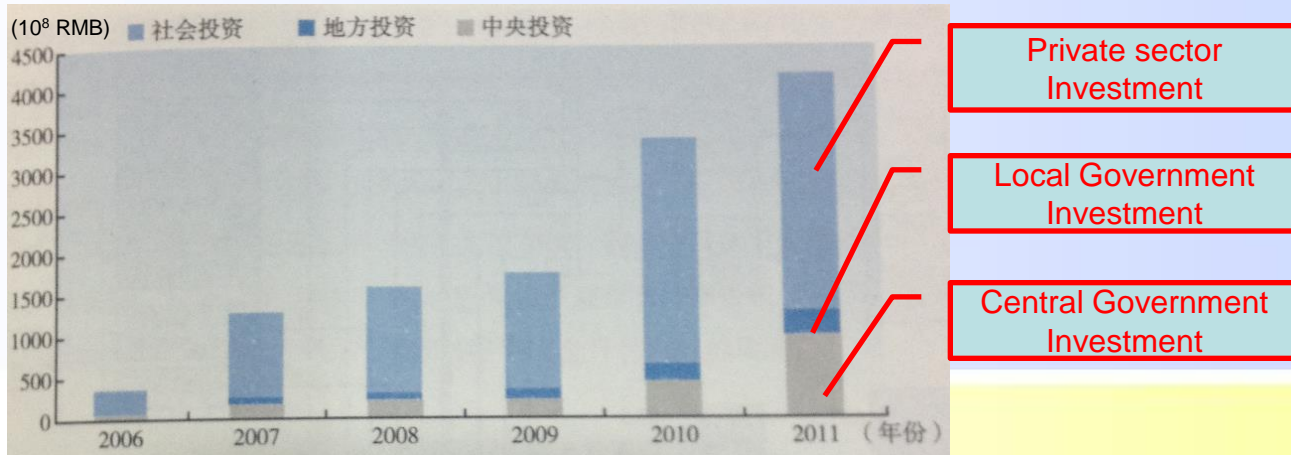
*Center for Industrial Energy Efficiency*

*November 2014*

# ENERGY EFFICIENCY IN CHINA



# EE INVESTMENT IN CHINA



Source of Energy Efficiency Investment in 2011

# EE INVESTMENT POLICIES

## Government Oriented

**Financial Incentives and tax credits for Energy Efficiency Projects:** for energy efficiency upgrading projects, energy performance contract projects, demand side management pilot projects, etc.

**Energy Savings Target Agreement:** mandatory energy savings target set for the Top 16078 key energy consumption enterprises, electricity savings and demand reduction targets for power grid enterprises, etc.

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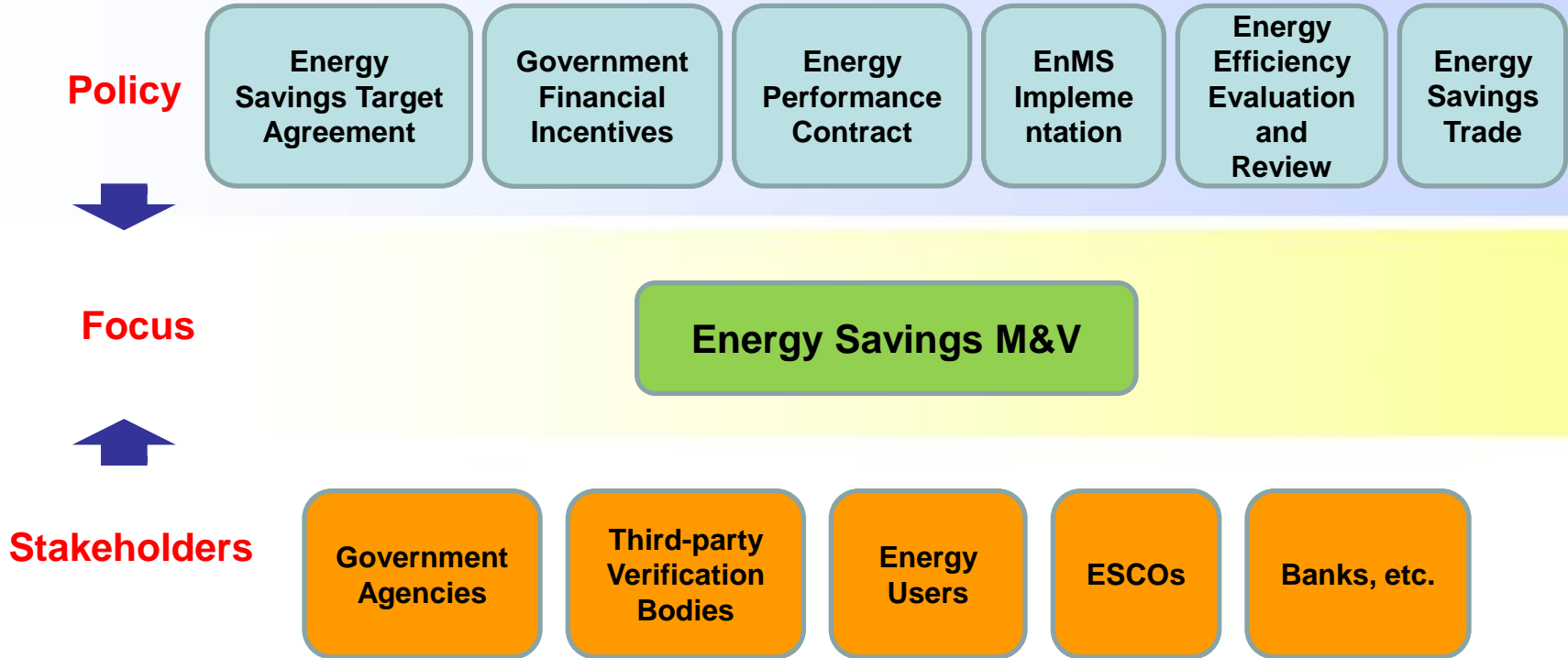
## Market Oriented

**Energy Performance Contract Promotion:** facilitate energy efficiency investment by paying the investment cost with its future savings.

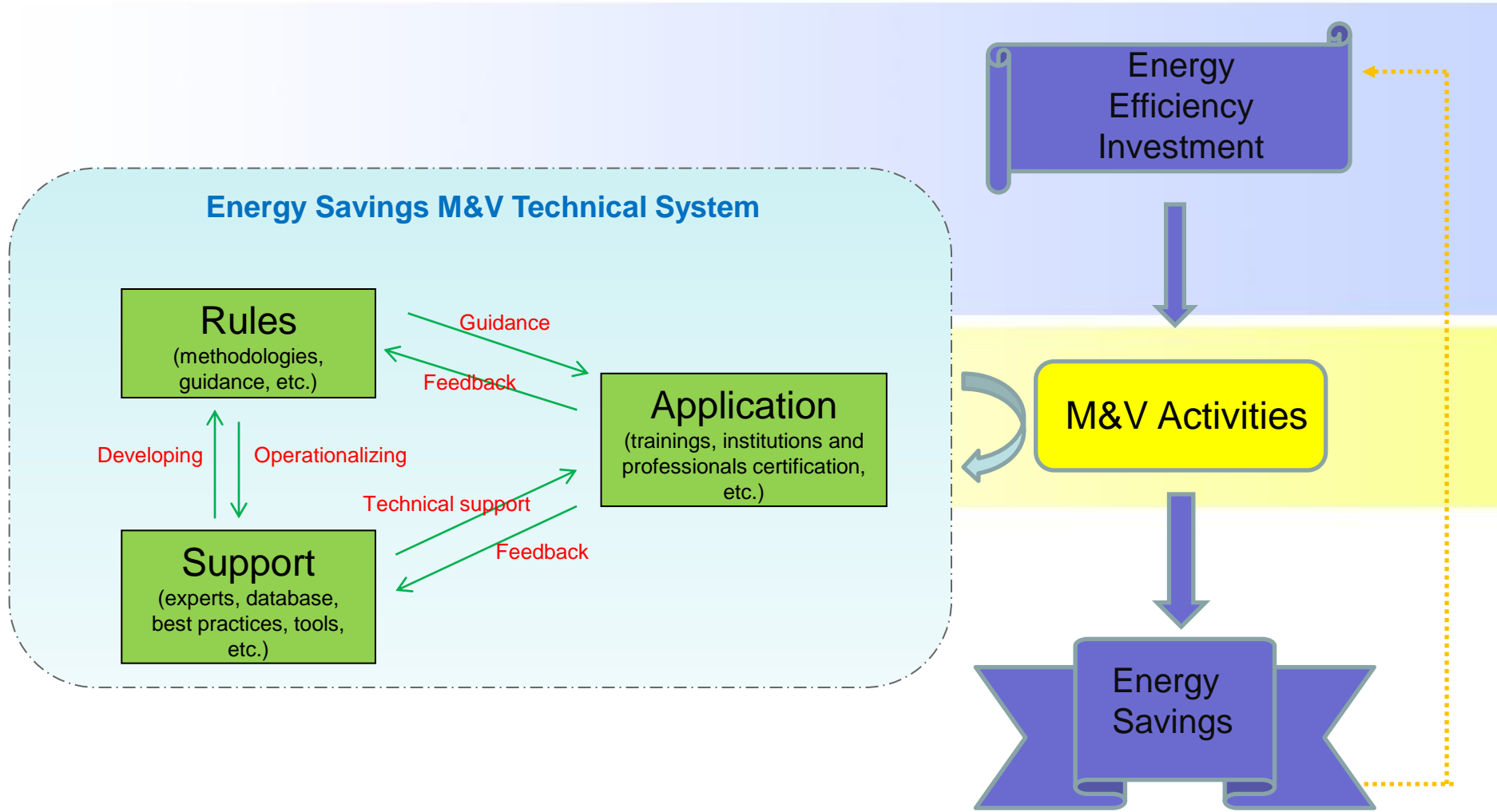
**Energy Savings Trade:** mainly within the top 16078 key energy consumption enterprises, as well as voluntary energy savings trade within energy consumption enterprises, ESCOs, banks, and relevant interested parties.

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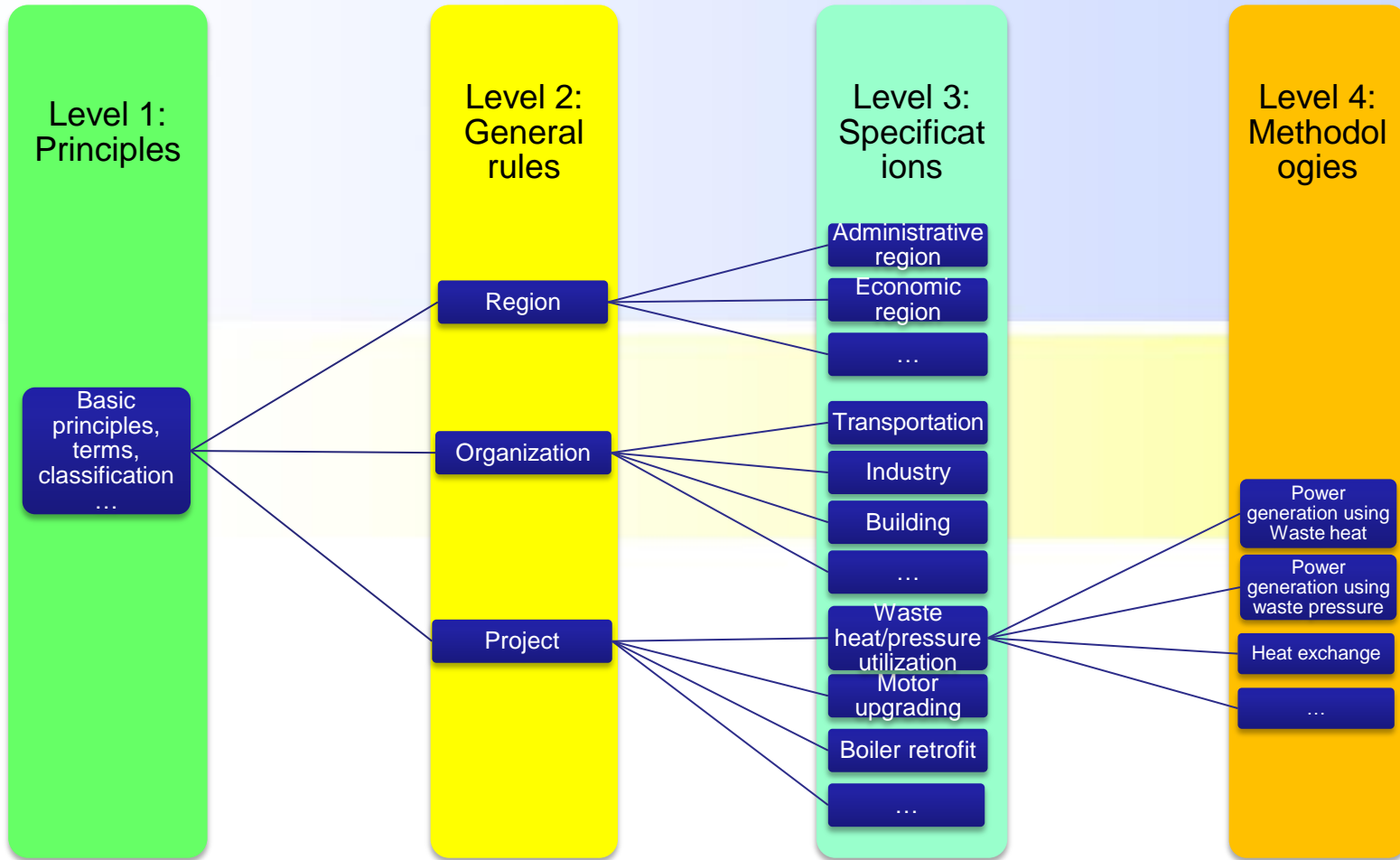
# ROLE OF ENERGY SAVINGS M&V



# ENERGY SAVINGS M&V TECHNICAL SYSTEM



# ENERGY SAVINGS M&V METHODOLOGIES/GUIDANCE



# ENERGY SAVINGS AND CARBON EMISSION VERIFICATION IN CHINA

- ❑ Since 2007, Chinese government initiated incentive policy for energy efficiency projects:
  - Energy efficiency upgrading project: 240~300 RMB/TCE based on energy savings;
  - Energy performance contract project: 240 RMB/TCE (Central government) + at least 60 RMB/TCE (Local government) based on energy savings;
- ❑ In 2012, China started carbon emission trade pilot in seven cities, including Beijing. From 2013, Beijing government launched annual carbon emission verification programme for around 500 key carbon emission enterprises.





# ENERGY SAVINGS M&V COOPERATION MECHANISM IN CHINA AND WORLD

- From 2012, with the support of Energy Foundation, Center for Industrial Energy efficiency (CIEE), jointly with other stakeholders such as third party verifiers, ESCOs, etc., advocated the establishment a ***National ALLIANCE*** for energy savings M&V, which aims to:
  - Develop and establish systematic, standardized and unified energy saving M&V procedures and methodologies;
  - Facilitate cooperation within stakeholders, strengthen institutional capacity building.
- ISO/TC257 (Evaluation of Energy Saving) are in the process to develop international energy savings M&V standards on region, organization and project levels.

# SUGGESTIONS

- ❑ Establish systematic and unified energy savings M&V methodologies and guidance, similar to the CDM methodologies system under UNFCCC ;
- ❑ Establish unified qualification and capacity requirement for energy savings M&V professionals;
- ❑ Establish unified qualification requirement for energy savings M&V agencies.

# ***THANKS !***

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