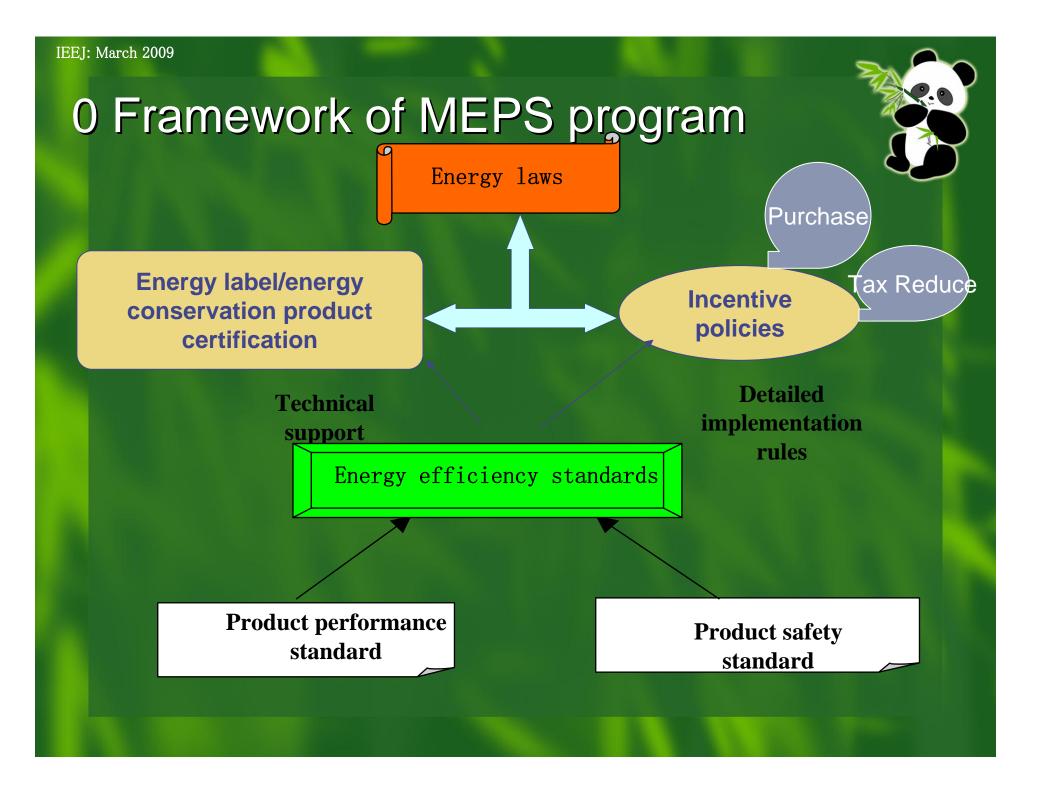
# **Energy conservation program in China and the role of international**

### cooperation in S&L

Cheng Jianhong Tokyo Feb. 27, 2009

## Content

China's Energy Standards
 Energy labels
 Incentive Policies for energy-saving
 International co-operation



### 1.1 Type of Energy standard



- MEPS for appliance, office equipment, industry equipment
- Economy operation standards for energyuse system
- Energy audit standard for enterprise
- Energy management standard (ISO PC242)
- Energy system standard(ISO 203)

# 1.2 China's management organizations for energy standards

- General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
- Standardization Administration of China (SAC) is a government organization, responsible for the planning, approval promulgation and market monitoring of China's national standards
- China National Standardization Technical Committee for Energy Basis and Management (CNTC)
- Workgroup for the national standardization, include: institutes, universities, labs, manufactures, associations

# **1.3 MEPS**

# Started from 1989Mandatory standards

### Content of China's MEPS

- Limited value of energy efficiency (or energy consumption), mandatory requirement.
- Evaluating value of energy conservation, voluntary index. China's energy conservation products;
- Energy grade, products are divided into 5(or 3) grades. Grade 1 is of the highest efficiency. China's energy label system;
- Test methods and inspecting rules

# List of 35 MEPS

- involving 5 product
   categories
  - -- Household appliances, 11
  - Lighting equipment,8
  - --Commercial equipment, 5
  - -- Industrial equipment, 6
  - -- Vehicles, 2
  - --Office equitment 3 China National Institute of Standardizat



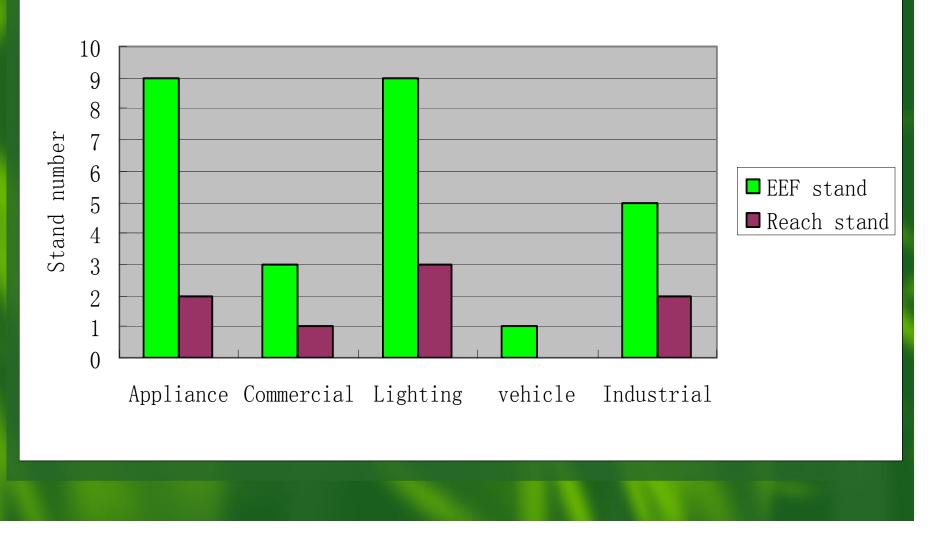


# List of Energy standards until now, 35 MEPS

Product	Standard No.	Description
refrigerator	GB12021.2	The limited value and energy grades of the energy consumption for household refrigerators
air- conditioner	GB12021.3	The limited value and energy grades of the energy con
Washing machines	GB12021.4	The elect
Iron	GB12021.5	
cooker	GB12021.6	The COL ARE AND A COLOR OF A COLO
TVs	GB12021.7	The con mo
Radio	GB12021.8	The con
Fan	GB12021.9	The consumption for electric fans

### China's MEPS developed

EEF standards in 2007



### The role of energy efficiency standards in China's energy conservation efforts \* Functions

- The new measure for the government to control the market under the conditions of market economy
- To eliminate the products with high energy consumption from the market
- To mitigate the supply and demand contradiction of energy, and ensure sustainable development of economy
- To meet the requirements of international trade, and it is the technical tie of the activities of international market economy
- To improve the environmental protection
- One of the main foundations for China to carry out energy conservation

#### Characteristics

- Small investment
- Take effect quickly
- Great influence

# Content

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# 2.1 Energy Conservation Product Certification

- Chinese character
- The first letter of "energy"
- The first letter of "China"
- Science of the second secon

 The color is "sky blue". This means clean sky, environment protect and beautiful future



# Energy Conservation Product Certification

#### Voluntary Labeling

- Certification program for energy conservation products
  - > Launch: 1998
  - Mode: factory examination (ISO9002)+ product test + reexamination & inspection
  - Products covered: home appliances, lighting, office equipments, industrial equipments, etc.
  - Initiated by China Development and Reform Commission, CQC



### 2.2 Energy information labeling



# content of the energy labeling

- Brand or trademark
- ✤ mode
- Energy efficiency classification
- Necessary information concerning energy consumption
- National The standards to be based
- Registration number

# Energy grade indexes



Grade 1 the goal for manufactures to strive for

Grade 2 products with minimum
 LCC( life cycle cost)
 Grade 3, 4 average energy efficiency

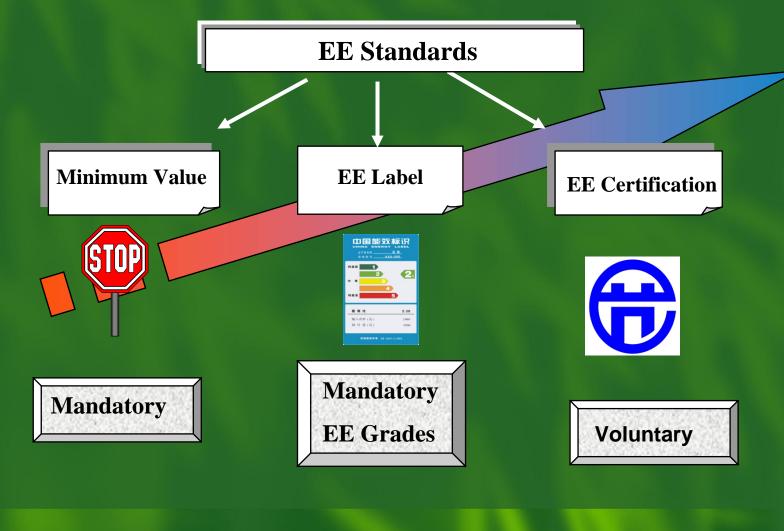
# List of product using energy label

#### Mandatory

August 2004, Regulation on Energy Efficiency Labeling Administration issued

- First list of product, 2005/3/1
   household refrigerators & room air conditioners
- Second list of product, 2007/3/1
   Unitary air conditioners & washing machines
- Third list of product, 2008/6/1(planned)
   Water chiller, gas heater, motor, Self-ballasted
   fluorescent lamps, high-voltage sodium lamp

# Relation of China's MEPS standards & labels



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# **3 Incentive Policies for energy**saving

3.1 Tax reduction value added tax income tax of company \*appliance price reduce by 13% sale in countryside First: TV, REF, Mobile phone(2007) Second: TV, REF, Washer, Mobile phone(2008)

Third: RAC, heater, motorcycle,computer(2009)

### 3.3 China Government Procurement

### 2007.12.13 《China government procurement Law》 revised & take effect, <u>Mandatory</u>

# List have been published

 First list, published in Nov. 2004. include 1531product model made by 88 manufactures

 Sec list, published in Sep. 2006. include 4770 product model made by 266 manufactures

New mandatory list, DEC.,2007. include 9 sorts: Air-conditioner, lighting, TV, Heater, Computers, printer, Monitor, closestool, water tap,etc.

## Content

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# 4.1 International co-operation



### 4.2 Scope of International collaboration

- Developing Energy standards and label
- Technical & Information exchange
- Share successful experience and lessons
- Apply and study International Co-operation Projects

# 4.3 Developing Energy standards & label

Standard

MEPS for household appliance: LBNL, EF foundation, CLASP, EU, WWF, ACEEE, IEEJ
Standby standards: LBNL, IEA, Aus

Label

Certification Label: EF, LBNL
Energy information label: EF, GEF, CLASP, LBNL

# 4.4 Mechanism

#### Market transformation system

- Project
  - ✓ APP Project 3
  - ✓ GEF- Green lighting engineering
  - ✓ RECEEP: Motor challenge engineering
- Relationship
  GEF
  APP 6 countries
  BSI
  Aus



#### Policies and enforcement

- Tax reduction, consumer price-support subsidy
   \* EF
- Implementation & monitoring of EE standards and labeling \* CLASP \* IEEJ
  - **◆**EU
  - ✤ EF



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