

'Beautiful Scenery is the Gold and Silver Mines'

China Policy Updates on Energy Saving and Energy Efficiency

EGEE&C 50th meeting
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Contents

- The 13th-Five Year Plan of Energy Saving and Emission Reduction
- Green Products Labeling and Certification Process



Objectives

13th – Five Year Plan of Energy Saving and Emission Reduction [2016-2020]

To 2020, **Energy Efficiency Ratio** of Gross Domestic Product per 10,000 RMB shall reduce 15% based in year of 2015, and **energy consumption in total** shall be controlled less than 5 billion standard coal

Total emission of **COD, NH₃-N, SO₂, Nox**, shall be controlled less than 20.01 million tons, 20.7 million tons, 15.8 million tons, and 15.74 million tons respectively, with reduction ratio of 10%, 10%, 15% and 15% with the base year of 2015.

Emission of **TVOC** shall be controlled to reduce 10% at least compared to 2015

Target to 2020

Improve Structure of Industries and Energy



Actions

Promoting transition and upgrades of traditional industries

- ✓ China Manufacturing 2025.
- ✓ Key Industry Upgrading.
- ✓ Stricter industry regulation, entrance management and energy saving auditing.

Enhancing development of new industry

- ✓ IT, high-tech, new material.
- ✓ Technology and service innovation.
- ✓ Consultation on energy saving and environmental technology.
- ✓ Static data collection on energy saving and environmental protection industry.

Facilitating optimization of energy structure

Coal consumption shall be reduced to 58% , and power generated by coal in coal consumption shall be improved to 55%, non fossil energy usage ratio shall be up to 15%, and natural gas shall be increased to 10% by 2020

Strengthen energy saving in key areas

Industry

To 2020, energy usage efficiency and clean production level shall be improved significantly, that energy consumption for industries and enterprises shall be reduced by 18% compared to 2015.

Integration development of new generation of IT and manufacturing technology

Building

Standard running action.

Green building area ratio will improve to 50% up to 2020;

Industry chain development for Green Building.

Energy saving retrofitting for existing buildings.

Pilot study in city development with Green building

Transportation

System optimization with different transportation options.

Public transportation promotion.

Improve EE for vehicles.

Promote smart transportation

Commercial Logistic

Energy management system establishment.

Green shopping mall standard implementation.

Improve Green restaurant standard system.

Fasten Green storage construction.

Strengthen energy saving in key areas

Agriculture & Village

Phasing out out-of-date agriculture machinery.

Improve energy usage cleaning level for villages.

Biogas encouragement and liquid natural gas promotion.

Stable and reliable power supply for national villages.

Public organization

Green building implementation

Contracted energy management deployed for energy saving retrofit.

Information disclosure for energy consumption data.

Transportation regulation.

Phasing out coal consuming facilities

Energy consuming organization

Targeted responsibility appraisal mechanism.

Annual budget for energy consumption gross control and target.

Regulation of energy auditing, energy consumption report, management responsibilities.

Energy consuming equipment

Management for special equipment in high energy consumption.

Coal burning boiler supervision.

Energy saving technology promotion.

Energy consuming equipment technology developing.

Strict emission and discharge of main pollutants

Priority area and River emission mitigation

- Beijing-Tianjin-Hebei area, Yangtze Delta, Zhujiang Delta, Northeast
- Yangtze River, Yellow River, Zhujiang River, Songhuajiang River, Huaihe River, Haihe River, Liaohe River

Pollutants emission reduction for industry

- Environmental Impacts Assessment.
- Total indexes or reduction replacement for pollutants.
- Pollutants emission permit.
- Information disclosure and environmental credit evaluation.

Mobile sources control

- Engine improvement for vehicles in diesel oil.
- Oil upgrading speeded up.
- Pollutants emission standards revision for oil storage and oil station.

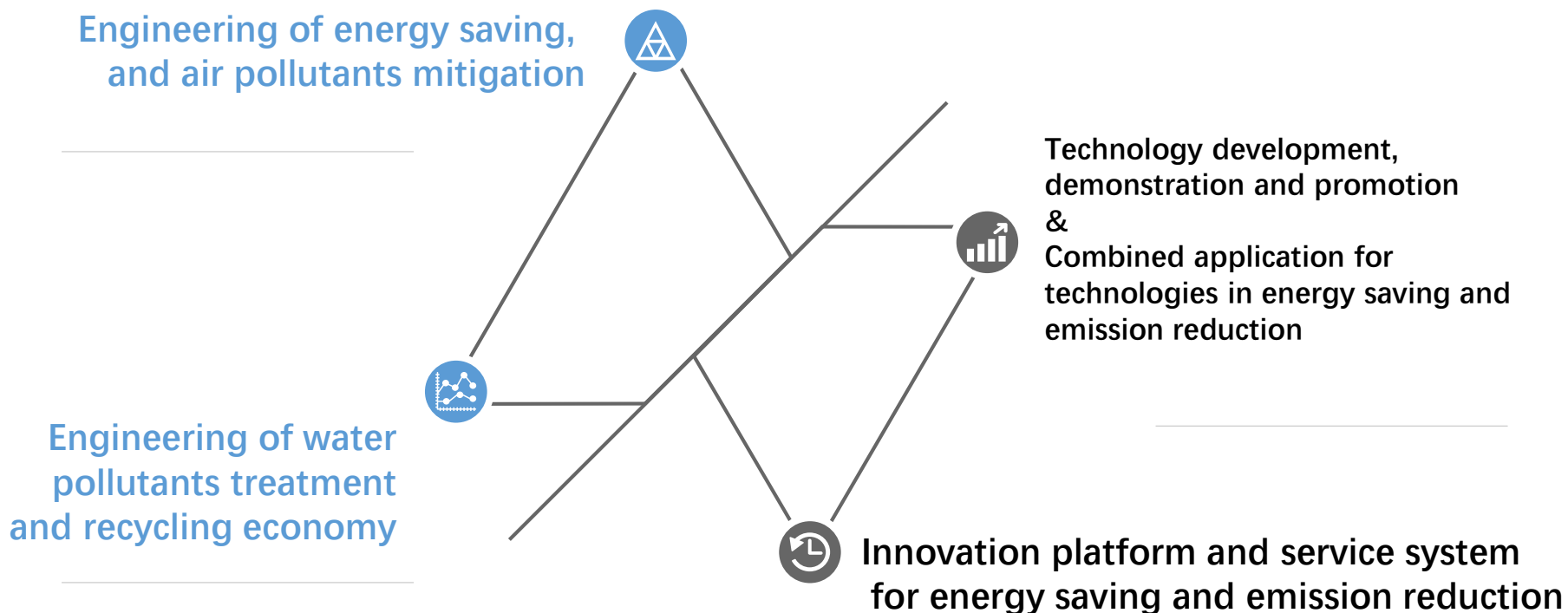
Household source control

Agriculture pollution control

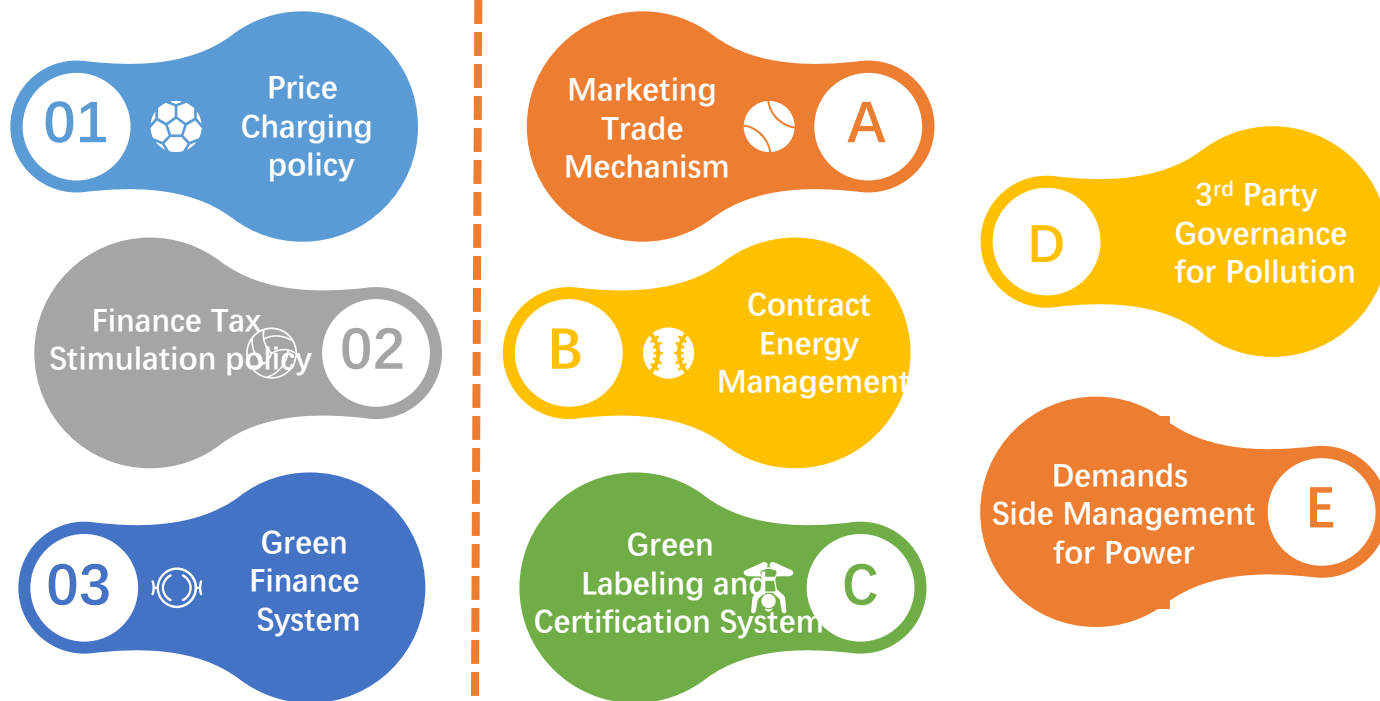
Recycling economy development



Implementing energy saving and emission reduction engineering & Enhancing technology support and servicing system



Improving energy saving and emission reduction policies & marketing mechanism



Target-oriented responsibilities in practice & supervision and on-site check for energy saving and emission reduction

01 Improving system of metering, statistic, monitoring and warning for energy saving and emission reduction

02 Indexes break down for energy saving and emission reduction in a reasonable way

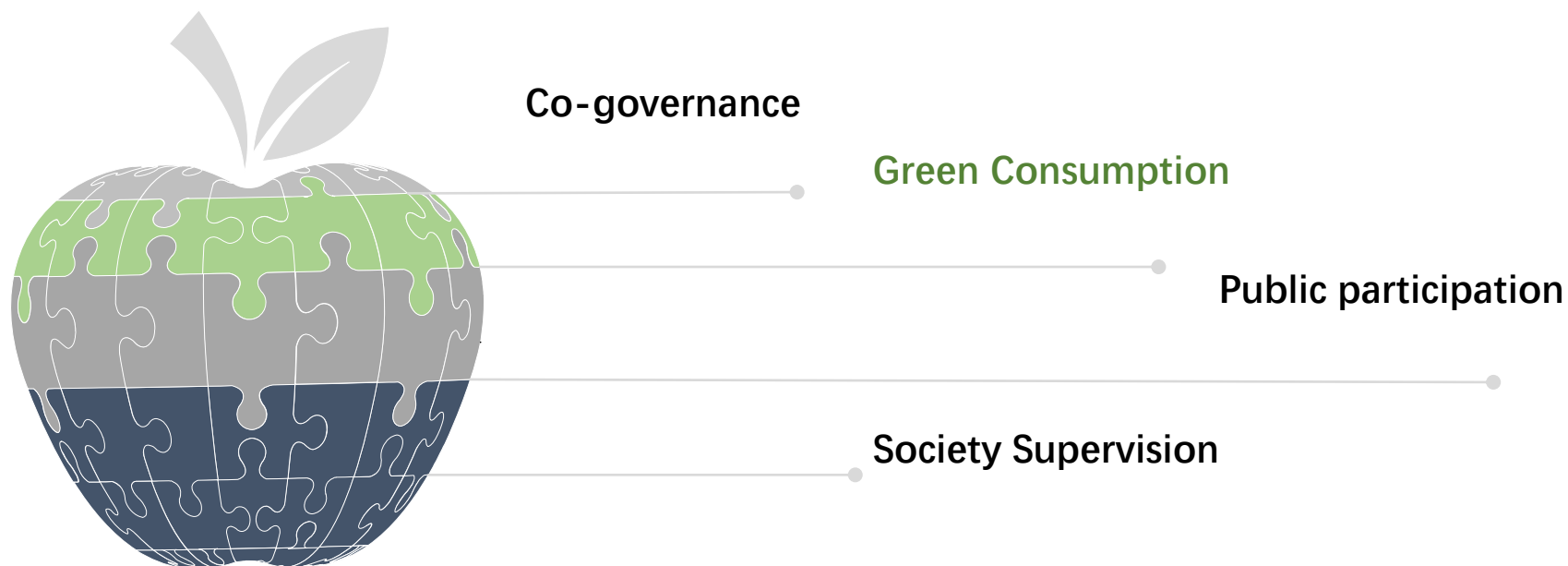
03 Appraisal of target-oriented responsibility

A Law, Regulations, Standards Improvement for energy saving and environmental protection

B Strict supervision and on-site check for energy saving and emission reduction

C Service improvement for energy saving and emission reduction

Energy saving and emission reduction for the society participation



Green Products Labeling and Certification Progress



Lighting chemistry products

- Furniture
- Textile
- Paper and related products
- Washing products
- Plastic products
- Wood related products

Construction materials

- Paintings and coatings
- Construction glass
- Wall materials
- Heating insulating materials;
- Ceramic brick
- Sanitary pottery
- Water proof and sealing materials

Home appliances

- General rules (refrigerator, air condition, washing machine)

Renewables energy products

- Solar water heating system



Thank You!

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