

Integrated Approaches to Energy Efficiency Technologies in China

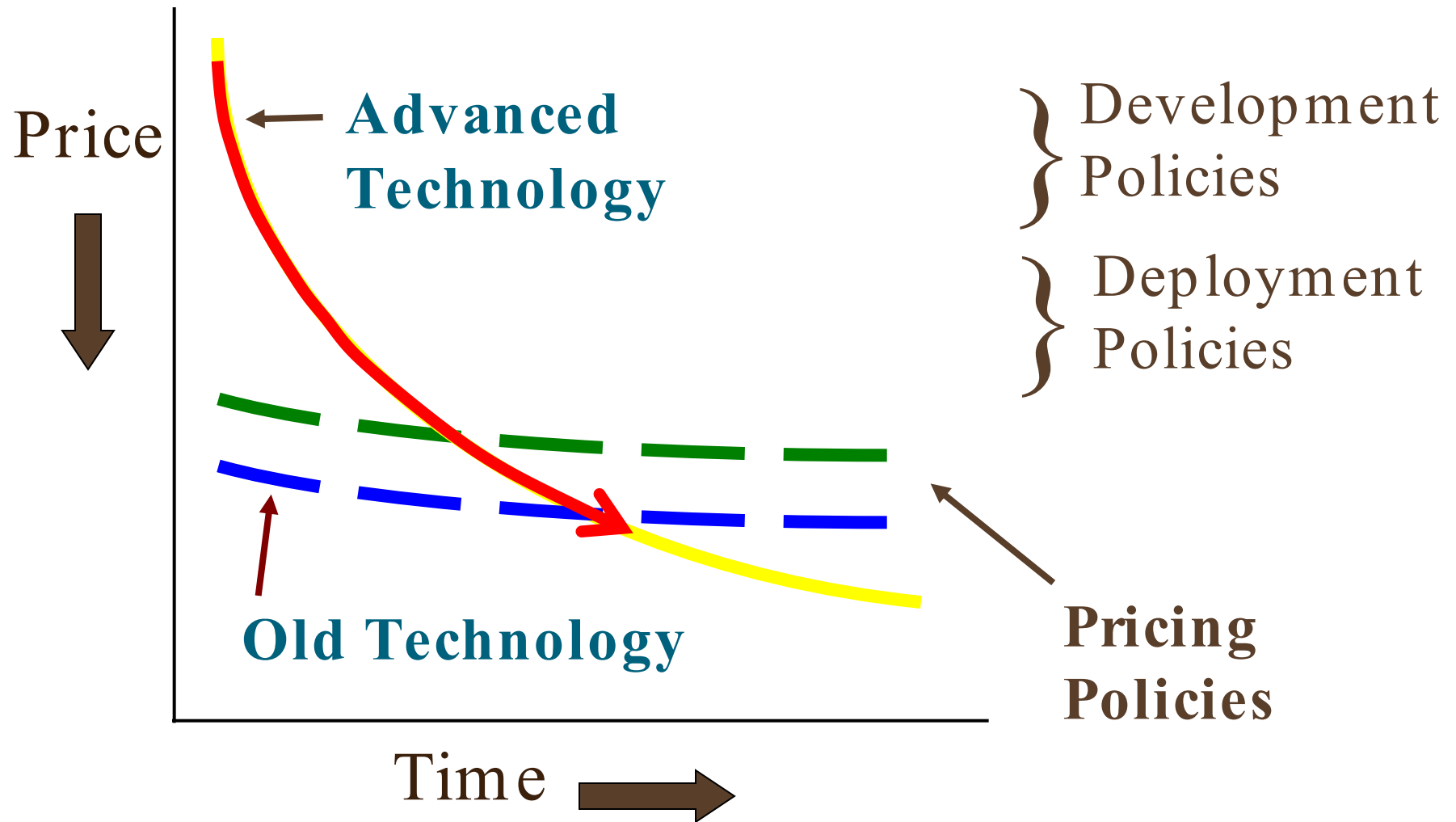


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November 29, 2012

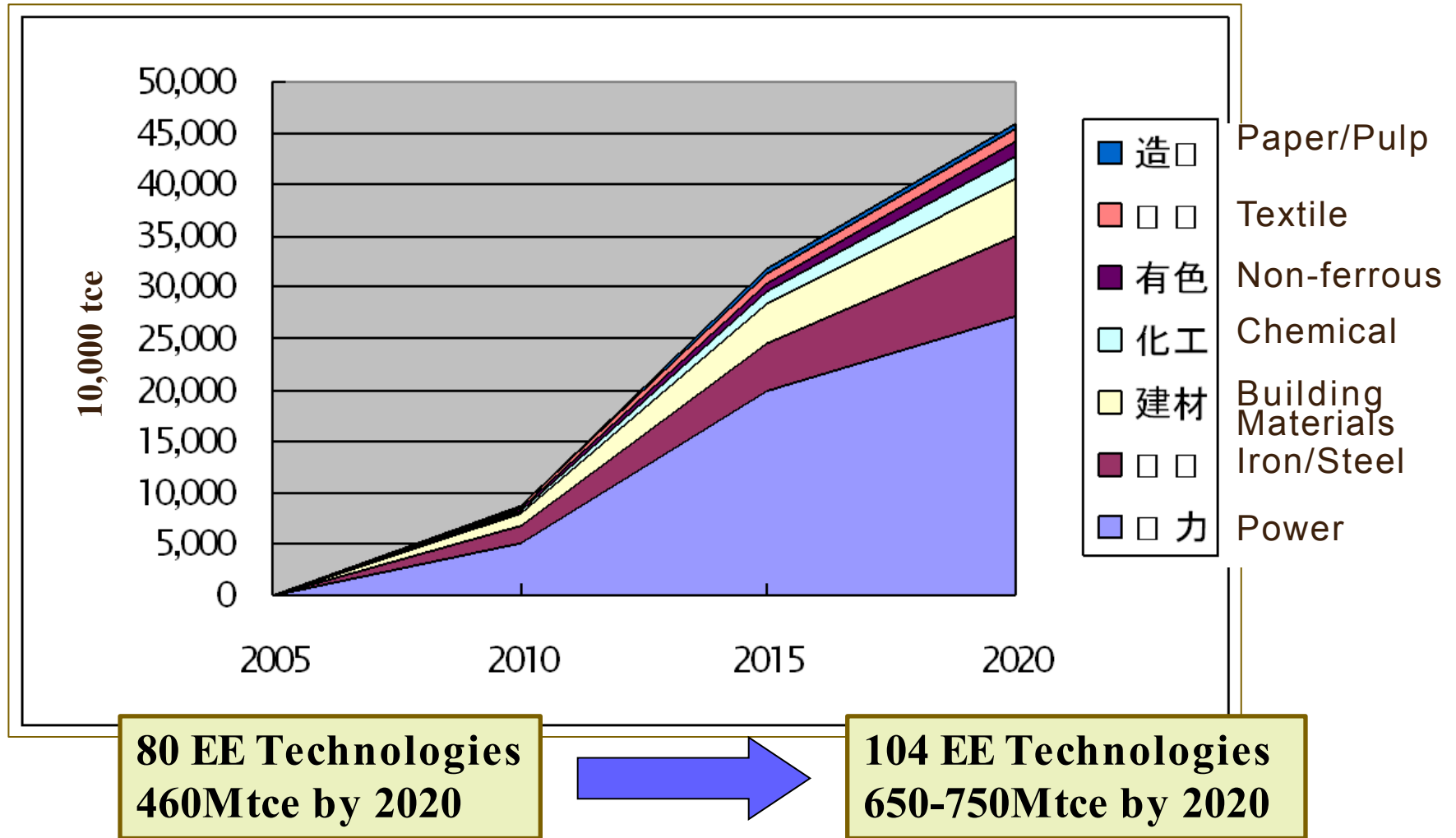
Major Topics

- I. Energy Saving Potentials of EE Technologies in Chinese Industries
- II. Barriers and Challenges of EE Technologies Promotion
- III. Integrated Approaches to EE Technologies in China

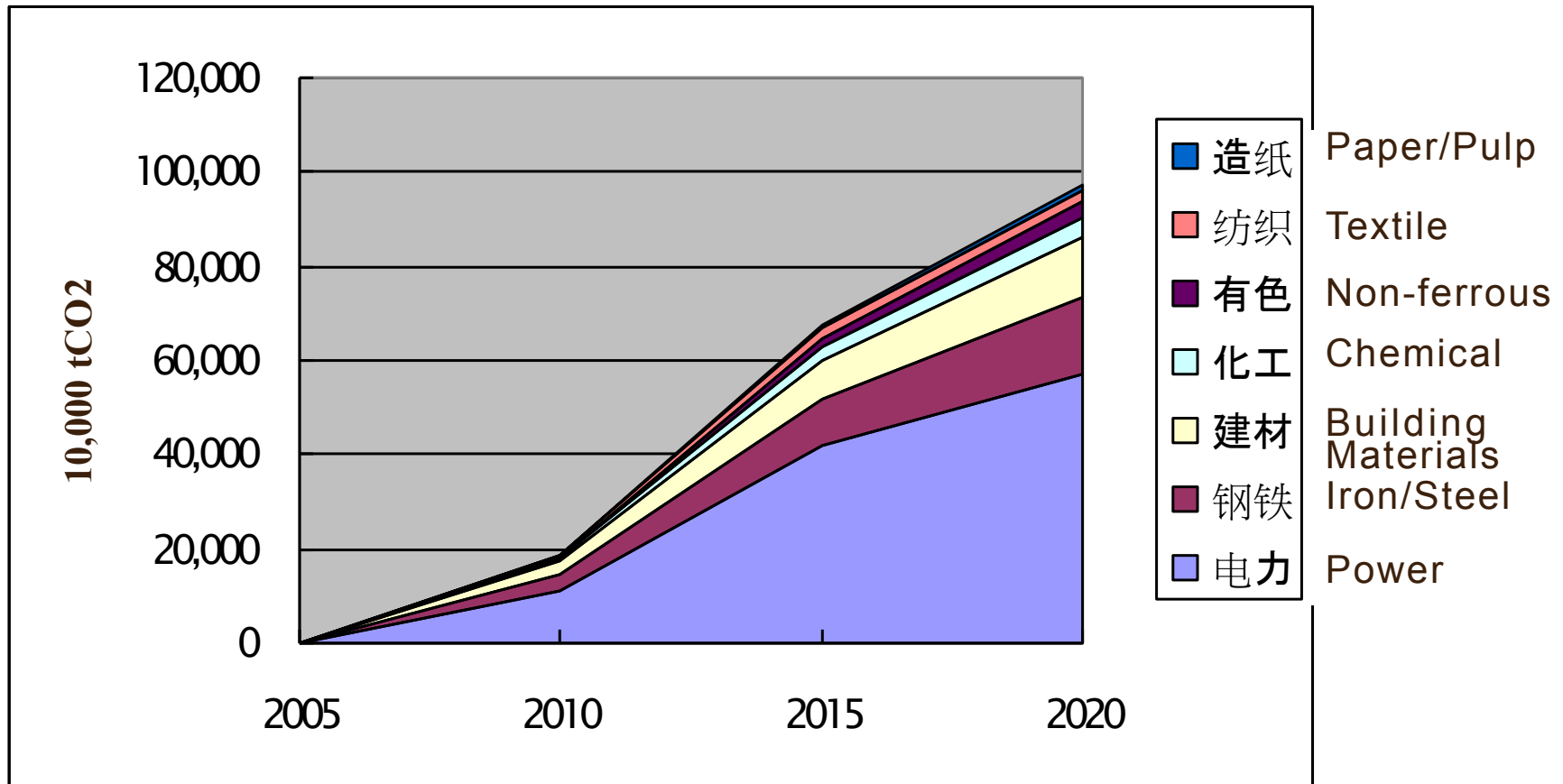
Policy Catalyzes Markets



Energy Saving Potentials of 80 EE Technologies in Chinese Industries



Technologies in Chinese Industries

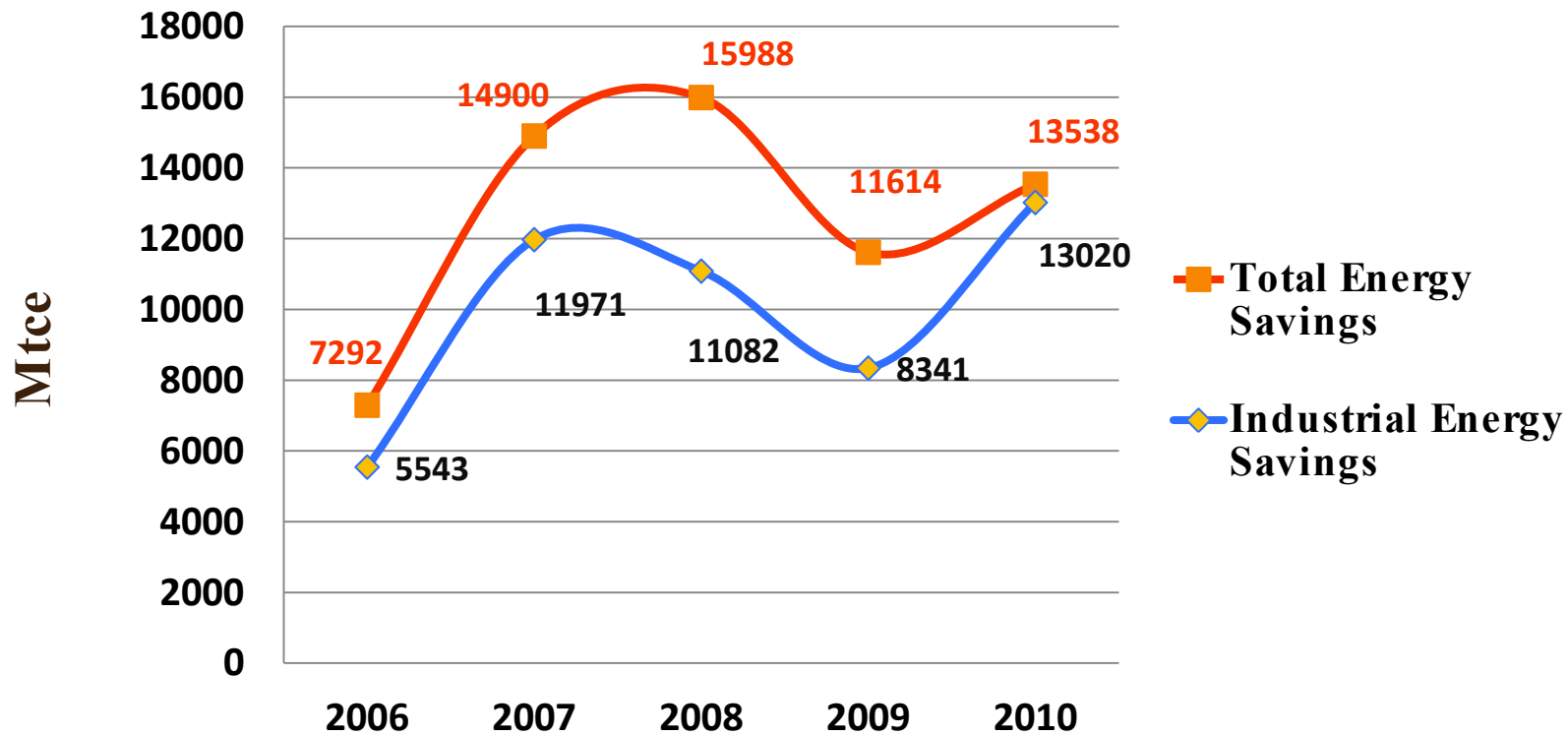


80 EE Technologies
1,007MtCO₂ by 2020



104 EE Technologies
1,500-1,700MtCO₂ by 2020

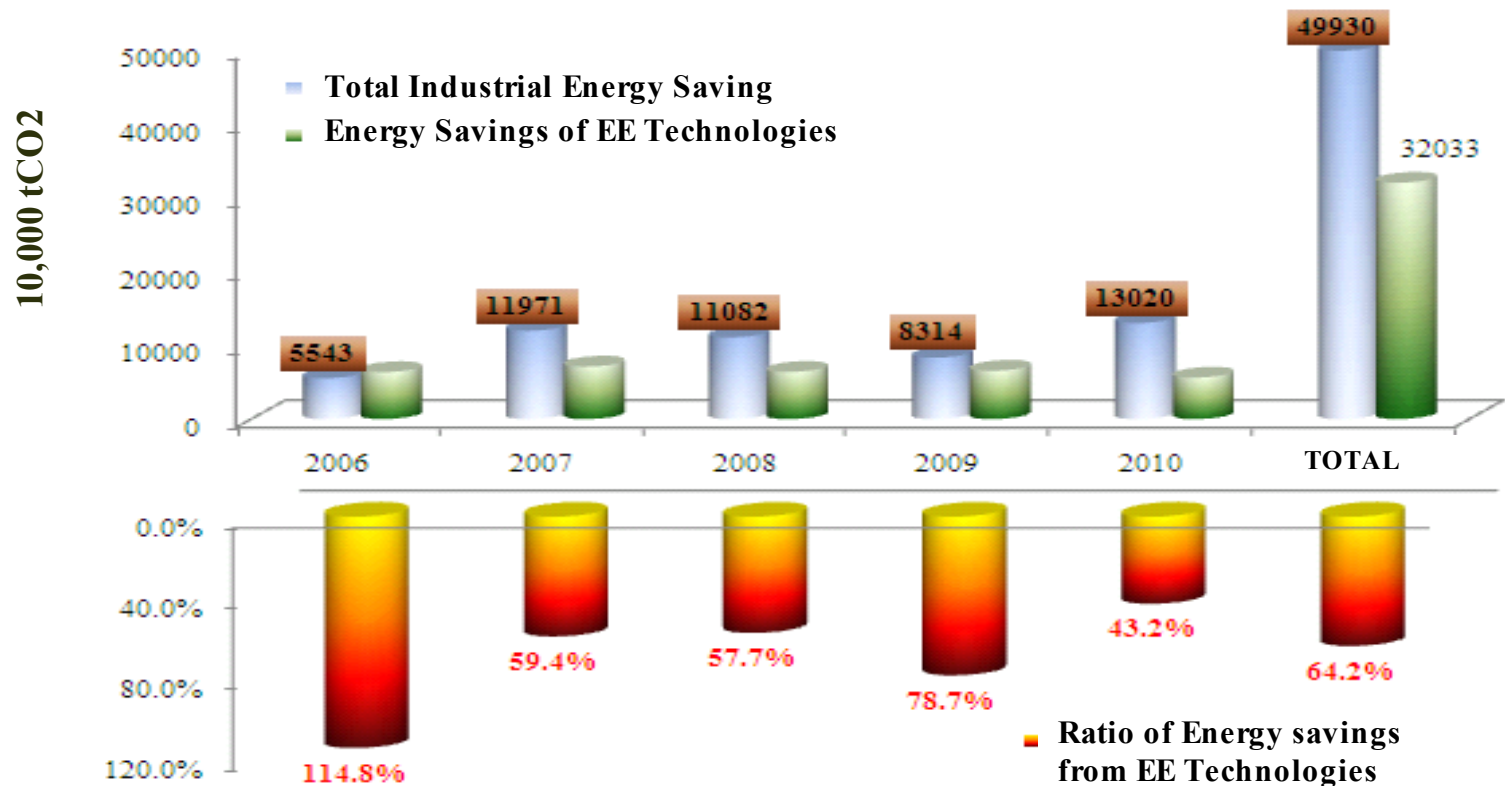
Energy Savings of Industrial Sectors in the 11th FYP



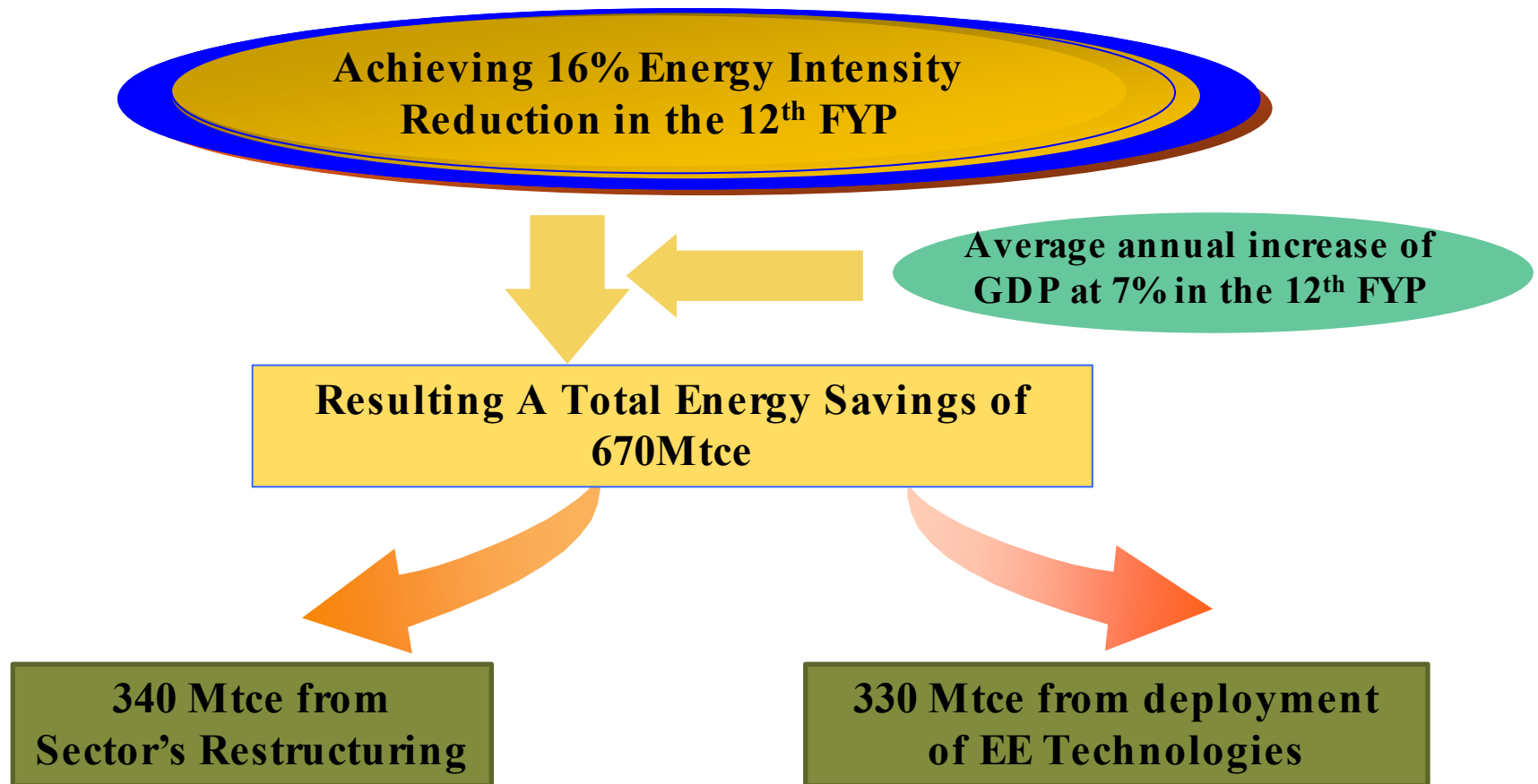
11th FYP : Energy consumption per unit of value added of industrial products reduced by 20.6 percent leading a total energy savings of 499Mtce, which contributes to 78 percent of national energy intensity reduction.

Roles of Key EE Technologies in the 11th FYP

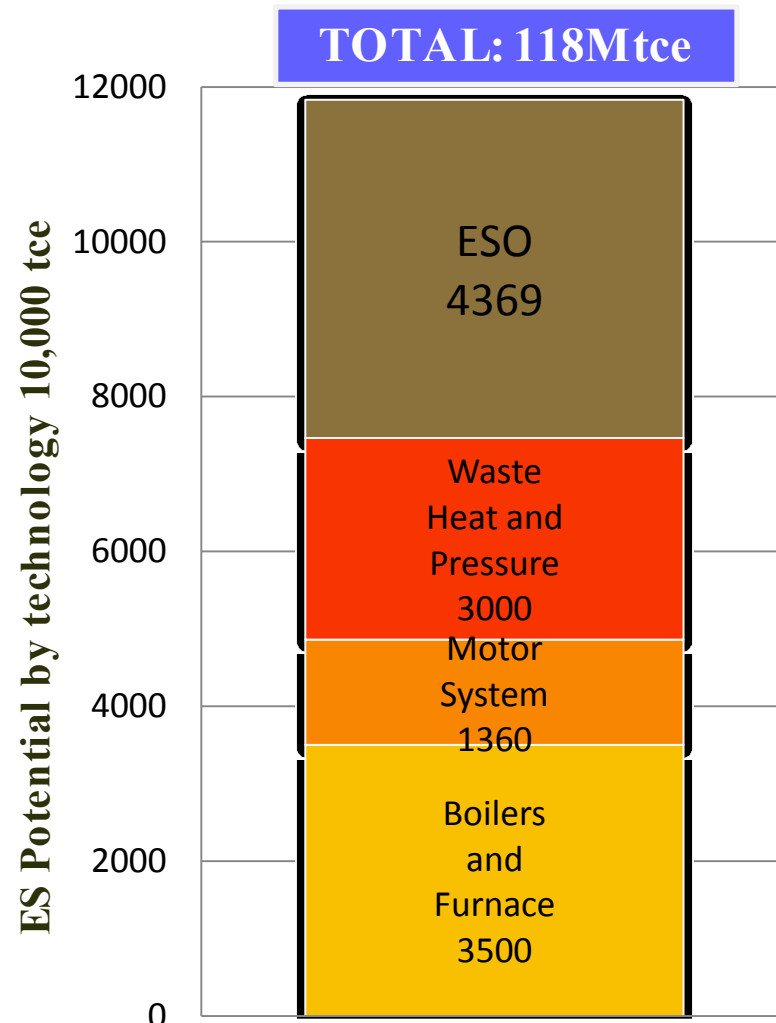
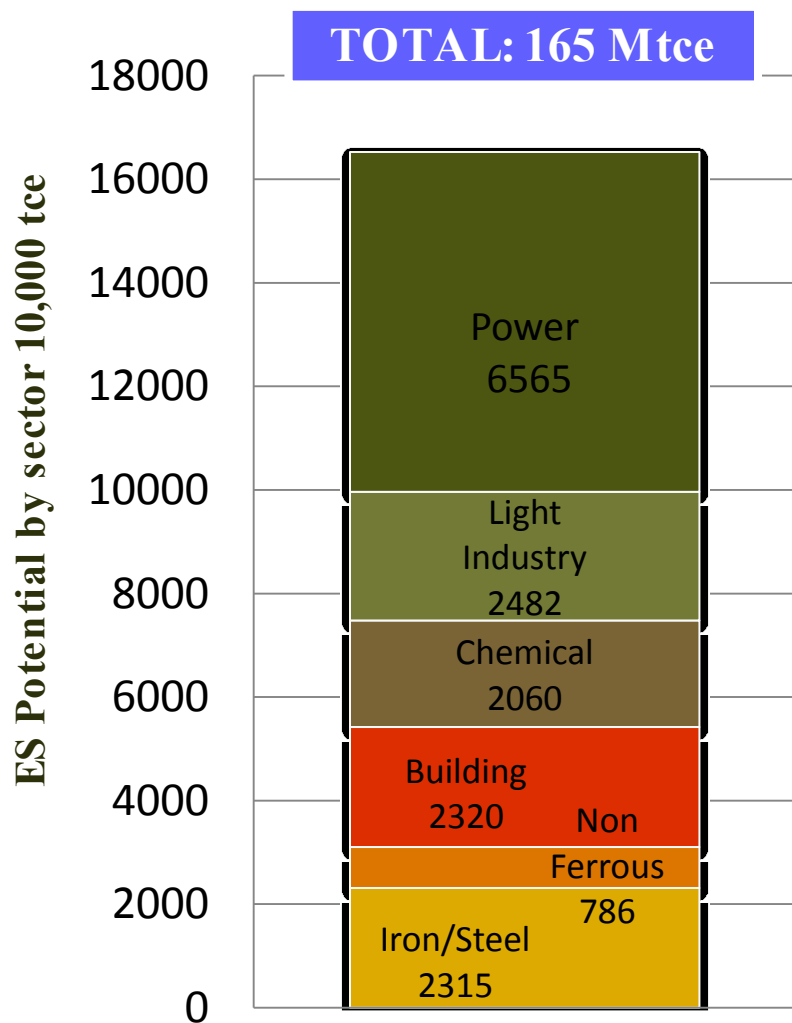
11th FYP : A total energy savings of 320Mtce achieved from deployment of 26 EE technologies contributing to 64 percent of total industrial energy savings



Roles of EE Technologies in the 12th FYP

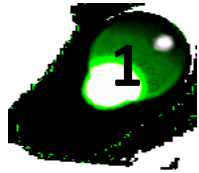


Energy Saving Potential by Key Sectors and Technologies in the 12th FYP



Source: Wang Jianfu, Green World Low-Carbon & Technology Center, 2012

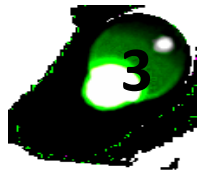
Barriers of EE Technologies Deployment



Scattering distribution geographically and difficult to collect



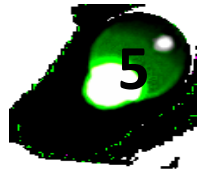
Lack of standards for identification, screening, selection and dissemination of EE technologies



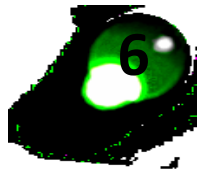
Lack of tailor-made incentive policies for promoting EE technologies



Unawareness of enterprises for adopting EE technologies



Weak coordination among the key stakeholders for promoting EE technologies



Lack of services for proving information on EE technologies

Integrated Approaches for EE Technologies Promotion in China

1、 Establishment of Technical and Management Standards for EE Technologies

- ✓ Wider channels for EE technologies collection
- ✓ Establishment of technical standards of EE technologies identifications, screening and selection
- ✓ Set up a mechanism for EE technologies dissemination
- ✓ Establishment of database for information disclosure and update
- ✓ Establishment of monitoring and evaluation mechanism
- ✓ Exploration of technologies trading system

Integrated Approaches for EE Technologies Promotion in China

2、 Coordination among the Key Government Agencies for EE Technologies

- ✓ Identification of leading ministries possibly NDRC, and closely work with MOF, MIIT, MOHURD, MOST and other key ministries
- ✓ Establishment of mechanism of information sharing and exchanging, disclosure among the ministries
- ✓ Set up a national coordination office for development of overall strategies and implementation of EE technologies

Integrated Approaches for EE Technologies Promotion in China

3. Development of national strategies for EE Technologies

- ✓ Development of National Guidelines for EE Technologies Promotion
- ✓ Set up a green channel of approval projects for EE technologies

4. Improvement of incentive policies and encouragement of self motivated initiatives of enterprises

- ✓ National subsidy to support demonstration projects, production base and commercialization for major new EE technologies
- ✓ Establishment of Special National Fund for EE Technologies
- ✓ Tax preferential policy to new EE technologies in the national Catalogue
- ✓ Financial institutions to establish specialized funds to support EE technologies

Integrated Approaches for EE Technologies Promotion in China

5. Capability Building for EE Technologies Promotion

- ✓ Cultivation of professional personnel in the universities, research institutions and enterprises for the R&D, application and management of major EE technologies
- ✓ Promotion of information sharing and exchanges for EE technologies through holding intra-industry and inter-industrial exchange meetings
- ✓ Capacity building of third party organization in the efforts of identification, collection, monitoring and evaluation of EE technologies

6. Information Disclosure and International Cooperation

- ✓ Wider approaches for information disclosure through media, advertisement and internet
- ✓ Encouragement of proactive actions of key stakeholders such as industrial associations
- ✓ Learning best practices and EE technologies from other countries



Thank you!
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