



Energy Efficiency Improvement in Manufacturing SMEs

--from the perspective of Guangdong
Province, China

Guangdong Provincial Economic and Information
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Continents

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Brief introduction of Guangdong Province



Capital:Guangzhou

Divisions: 21 prefectures
121 counties, 1642
townships

Total area:179,800 km²

Total population(2012):
105,940,000

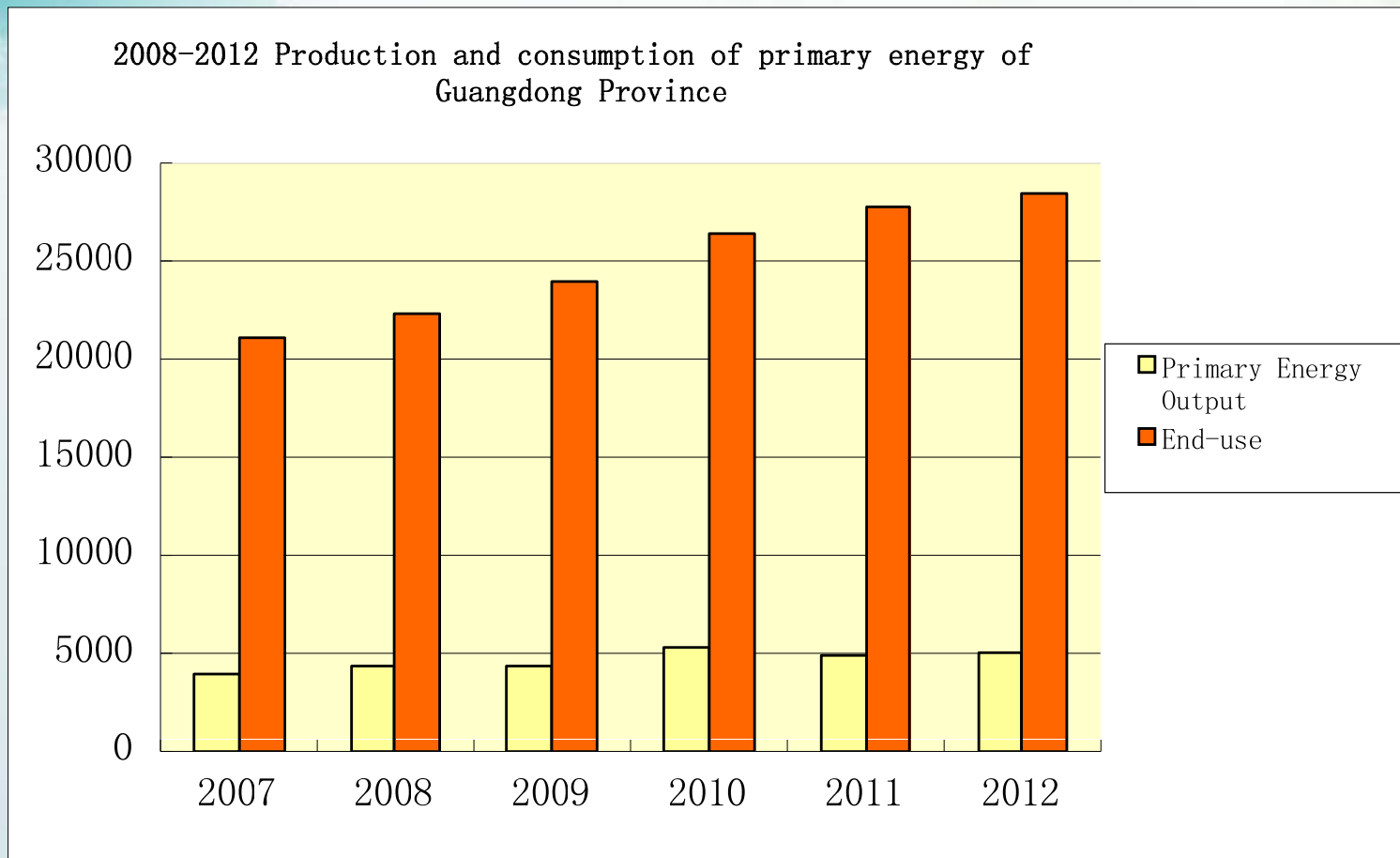
GDP (2013) :US\$ 1.015
trillion

Per capita :US\$ 9,578

1. Importance of energy efficiency

- Energy resources of Guangdong Province are relatively poor
- Guangdong Province faces difficult situation of energy saving
- Energy saving is an important way to improve the market competitiveness of enterprise
- The internal demand of the sustainable development of SMEs

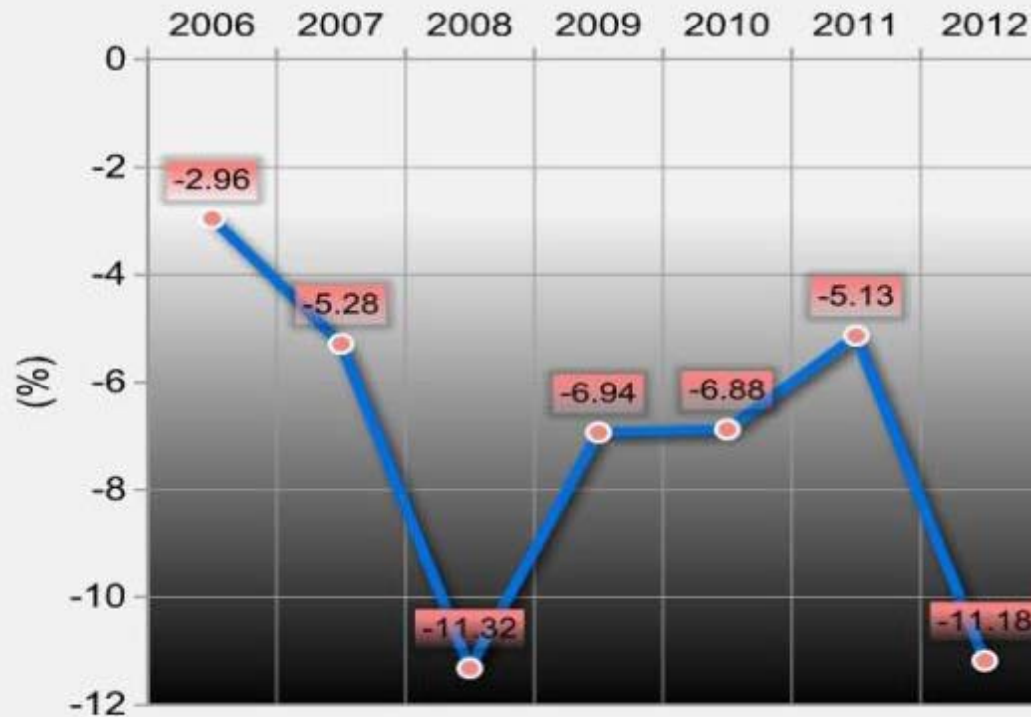
1. Importance of energy efficiency



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The Guangdong provincial energy consumption per unit of industrial added value rate of descent since "the eleven year plan"

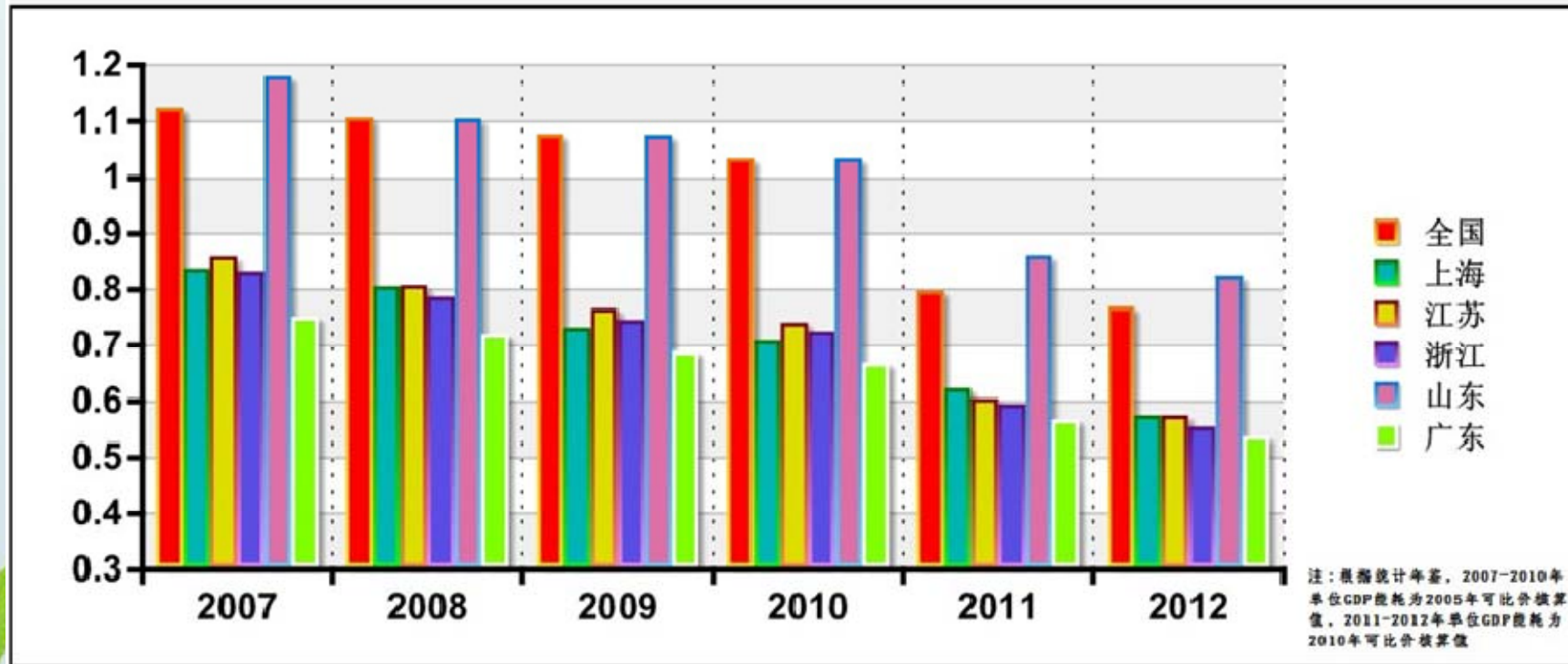
“十一五”以来广东单位工业增加值能耗下降率



1. Importance of energy efficiency

The Guangdong provincial energy consumption per GDP compared with national and coastal city level

广东省单位GDP能耗与全国及沿海城市水平比较
(单位: 吨标准煤/万元)



2. Current energy efficiency key policies

- Energy conservation target responsibility assessment
- Fiscal and tax preferential policies
- Energy audit, supervision and inspection
- Market-oriented energy-saving mechanism
- Implement policies benefiting the people of using energy saving products
- Energy saving publicity and training



3. Main methods and results of energy efficiency

- Implement the target responsibility system
- Enact and improve energy conservation rules and regulations
- Focus on energy conservation in key enterprises and construction of key projects
- Build the three Energy efficiency system (control center, energy management system and energy efficiency benchmark)
- Carry out the energy efficiency supervision and inspection
- Organize training and unfold publicity and education
- Carry out extensive international exchanges and cooperation



4. Challenges and opportunities on energy efficiency work of SMEs

·Challenges:

- Technology upgrade
- Mode innovation
- Industry chain extension and integration
- Standards and assessment

·Opportunities:

- Reduce costs to compete effectively
- Upgrade management efficiency
- Keep up with new developments
- Provide favorable market opportunities



4. Challenges and opportunities on energy efficiency work of SMEs

Market Opportunities

Policy support

Enterprises actively participate

technical needs

Provide technical support and management consulting

The developed countries grasp the advanced energy-saving technologies and managical experiences

5. Practical measurements and suggestions on energy efficiency work of SMEs

- Implement the market mechanism
- Increase the promotion of energy saving technology, equipment and products
- Carry out energy-saving pilot program
- Improve policies and incentive and restraint mechanisms
- Carry out extensive international exchanges and cooperation in energy saving



Thank you

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