

Understanding Energy in China (II) Geographies of Energy Efficiency

APERC Workshop, Santiago 20 April, 2009

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- Gap in the literature
- Key questions and answers
- Why is China so aggressive on energy efficiency?



Gap in literature

Other researchers have looked at:

- 1. Policy gathering and explanation
- 2. Quantitative analysis of the effects of policy
- 3. In-depth study of regional differences

Little work on policy implementation



Questions

- 1. How have policies that promote energy efficiency and conservation been translated to local actions?
- 2. What is the institutional structure?
- 3. Who is in charge?
- 4. How are local/regional governments implementing the policies?
- 5. Why there are differences among the regions?
- 6. How is progress being measured?



1. Translation of policy

China has been able to utilize regional governments and enterprises to implement policy highly coordinated way:

- 1.Close relationship between central government and local government: **active response**
- 2. Traditional China administrative structure **both horizontal and vertical**
- 3. Strong authority of government over firms large, medium, or small



2. Institutional structure

Regional and local government has been given lots of freedom by the Chinese central government.

- 1.central government sets the targets of policy
- 2.Regional/local government defines the measures and regulations
- 3. Enterprises carry out the measures and follow the regulations



3. Who is in charge?

Different government agencies are responsible for different aspects of energy efficiency.

- 1. Different size firms
- 2. Different industries
- 3. Different measures



4. How are the policies being implemented?

Three major methods:

- 1. Economic
- 2. Regulatory
- 3. Administrative
 - contract
 - agreement
 - treaty



5. Why regional differences?

Policies have been implemented in a regional context:

- 1. Varying economic development levels
- 2. Varying natural resources and climate
- 3. Chinese culture diversity



6. Progress evaluation

Three procedures for evaluation:

- 1.Firm self-evaluation
- 2. Field inspection by central/regional/sectoral governments
- 3. Expert commission re-evaluation



Why so aggressive?

Both the size and rapid growth of China's economy means China is feeling the impacts of their own actions.

- 1.Energy security
- 2. Environment
- 3.Intercentral energy market



Thanks!