

# Urban Energy-saving and New Energy Utilization in China

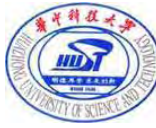


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# Content



**1**

**Chinese Urban Development: Energy Challenge**

**2**

**CNSC Demonstration: Urban Energy-saving and New Energy Utilization**

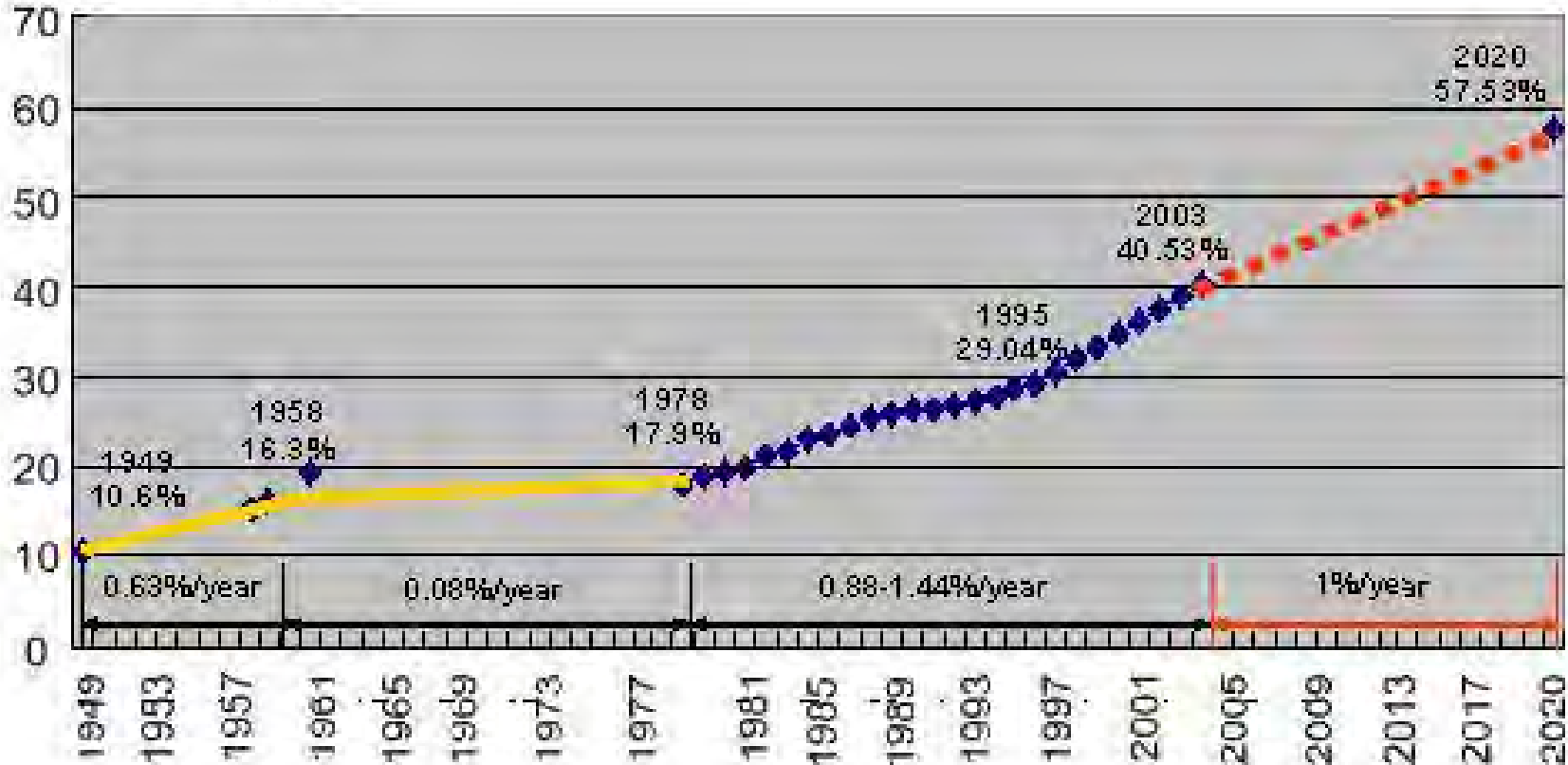
**3**

**HUST Co-programs: Urban Energy-saving and Sustainable Environmental Development**

**4**

**Technical Cooperation Suggestions**

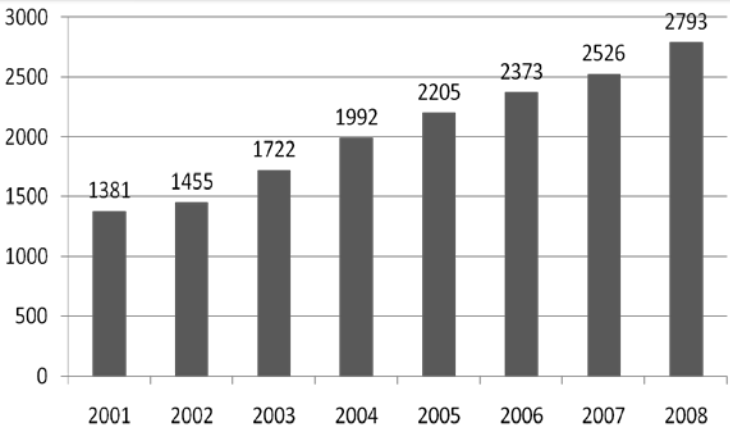
Urbanization Rate (%)



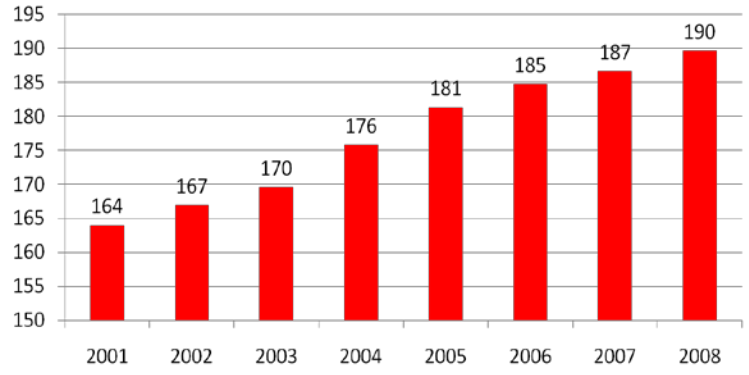
**Urbanization Rate in China (1949-2020)**

# 1

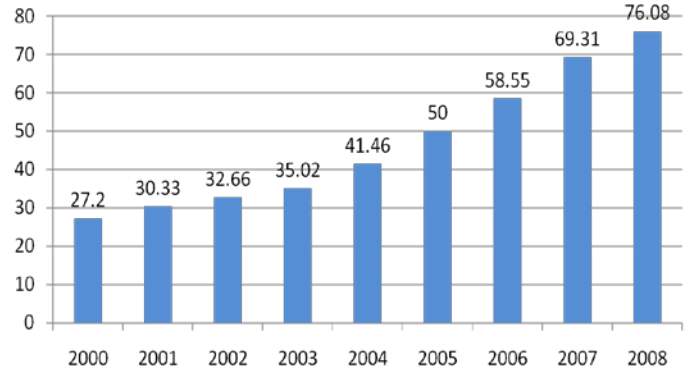
# Energy Developing Status in China



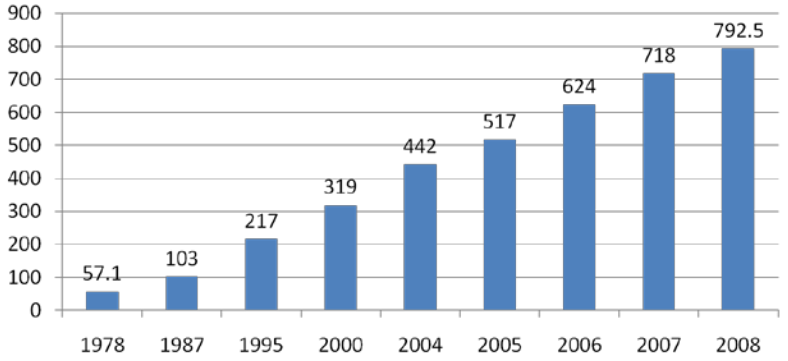
**Coal:** annual increment is 1.8 million tons



**Oil:** annual growth rate is 2.1%



**Natural gas:** annual growth rate is 13.7%



**Electricity:** increment speed super elevation  
annual increment exceed 1 billion kilowatt

**Most of Consuming Energy is in Cities!**

## Chinese Energy Developing Policies

### **Promote overall energy conservation**

Advance structural adjustment  
Strengthen industrial energy conservation  
Implement conservation project  
Strengthen management of energy saving  
Advocate energy-saving society

### **Improve energy supply capacity**

Orderly develop coal  
Actively develop power  
Speed up the development of oil and gas  
Vigorously develop renewable energy  
Strengthen rural energy construction

### **Accelerate energy technology progress**

Vigorously promote energy technology  
Promote key technology innovation  
Ascend equipment manufacturing levels  
Strengthen leading-edge technology research  
Develop basic scientific research

### **Promote coordinated development of energy and environment**

Comprehensively control greenhouse gas emissions  
Prevent ecological destruction and pollution  
Positively control vehicle exhaust pollution  
Strict environmental management of energy projects

◆ **Strengthen international cooperation in the field of energy**



**108 China National Sustainable Communities(CNSC) at 2010 in China**

## CNSC Case Study:

- (1) Shanghai: Chongming County**  
--- Energy-saving Community Construction
- (2) Hangzhou: Xiacheng District**  
--- Creation Energy-saving City
- (3) Wuxi: Huazhung Town**  
--- Waste Recycling and Incineration Plant System
- (4) Chifeng City:**  
--- Waste Treatment and Biogas Plant





**108 China National Sustainable Communities(CNSC) at 2010 in China**

## CNSC Case Study: (4) Chifeng City: --- Waste Treatment and Biogas Plant





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## HUST Co-programs:

- (1) Wuhan: Jiangan Old District**  
--- Sustainable Environmental Improvement
- (2) Hubei: Gucheng County**  
--- Energy-saving and Aseismic Building
- (3) Huashan Eco-city**  
--- Energy-saving and Low-carbon City  
Development
- (4) Hanyang District:**  
--- Waste Water Treatment Demonstration



# Gucheng County: ---Energy-saving and Aseismatic Building



Yanhe eco-village construction



Solar light



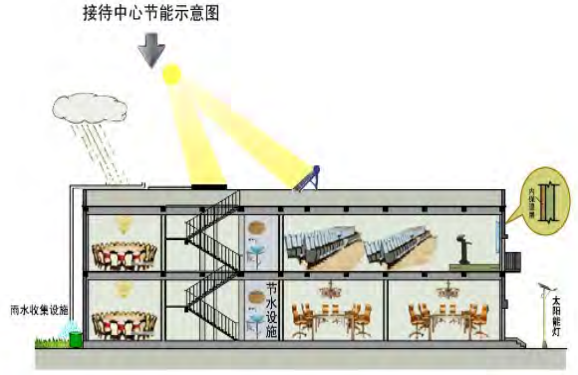
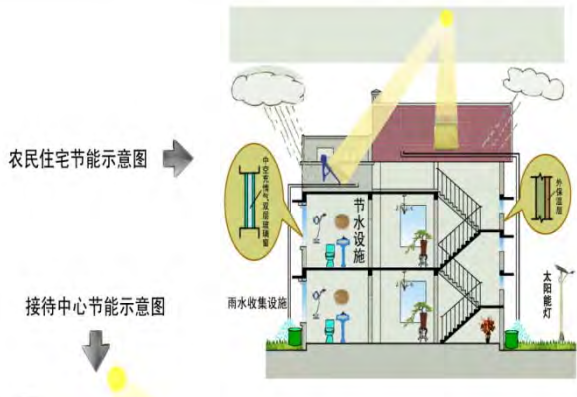
Ecogas



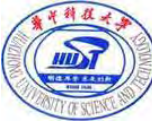
Hot water



Gas lamp



**Demonstration of Energy-saving and Aseismatic Building**



- **Establish technical cooperation mechanism**
- **Set up cooperation experts group**
- **Build communication network platform based on cities**
- **Exchange technical materials and information**
- **Select relative technical cooperation projects**
- **Set up partnership between university-university, institution-institution, enterprise-enterprise, city-city, community-community**

# FOR A BETTER URBAN FUTURE



***Thanks***

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