



# *Climate Change and Technology Needs of China*

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## Climate Change and Technology Needs in China

**China's Position on Key Climate Change Issues**



**Achievements by China**



**Needs for technology transfer and Cooperation**



**Some Examples of Technologies We Can Offer**



# 1.China's Position on Key Climate Change Issues



- *Mitigation of greenhouse gas emissions*
- *Adaptation to climate change*
- *Technology cooperation and transfer*
- *Full implementation of commitments under the Convention and the Kyoto Protocol*
- *Regional cooperation on climate change*

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# 2. Achievements by China



- Adjustment of economic structure, promote technological progress, improving energy efficiency.
- Development low carbon energy and renewable energy, improve the energy structure .
- Vigorously conduct afforestation, to strengthen the ecological construction and protection.
- Carry out family planning, effective control population growth.
- To strengthen the response to climate change in relevant laws, regulations and policy measures formulation
- Further improving the relevant system and institution construction.
- Pay high attention to the climate change research and capacity building.
- Increase the climate change education and publicity.

### 3. Needs for technology transfer and cooperation



- *for observation and monitoring of climate change*
- *for mitigation of climate change*
- *for adaptation to climate change*

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#### 3.1 Technology needs for observation and monitoring of climate change



- atmospheric observation, marine observation, terrestrial eco-observation, satellite technology on meteorological, marine and terrestrial resources, climate system simulation and calculation technology, etc.

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### **3.2 Technology needs for mitigation of climate change**



- advanced energy production and utilization technology, environmental protection and resource comprehensive utilization technology, high-efficiency transportation technology, new material technology, etc.

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### **3.3 Technology need for adaptation to climate change**



- high-efficiency water-saving agro-technologies, water-saving and reusing technology of industrial water, treatment technology of industrial and household wastewater, household water-saving technology, high-efficiency flood-controlling technology, agro-biological technology, agricultural breeding technology, disease and pest control technology for cropland, forest, and grassland, cultivation technology of fast-growing high-yield forest and high-efficiency firewood forest, technology for recovery and reconstruction of wetland, mangrove and coral reef ecosystems, technology for observation and pre-warning of flood, drought, sea level rise, agricultural disasters, etc.

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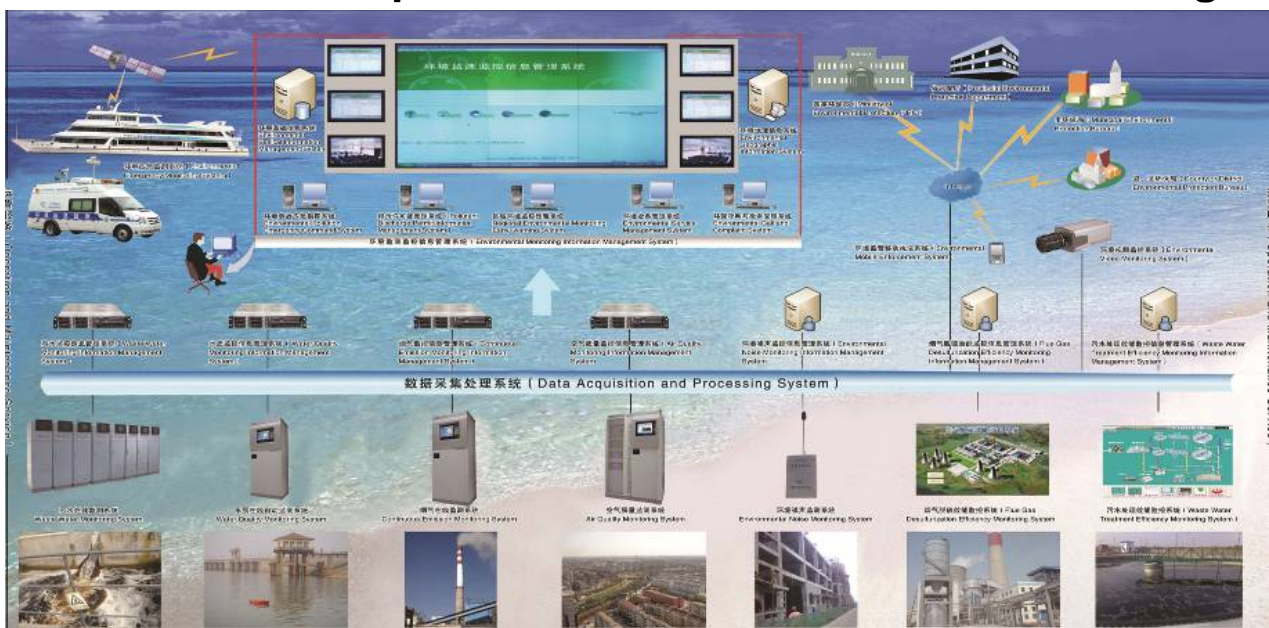
### 3.4 Needs for capacity building

- Development of human resources
- Adaptation to climate change
- Technology transfer and cooperation
- Public awareness
- Information system development
- National communications

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## 4. Some Examples of Technologies We can Offer in ESTs and Climate change

### 4.1 the One-stop Solution of Environmental Monitoring

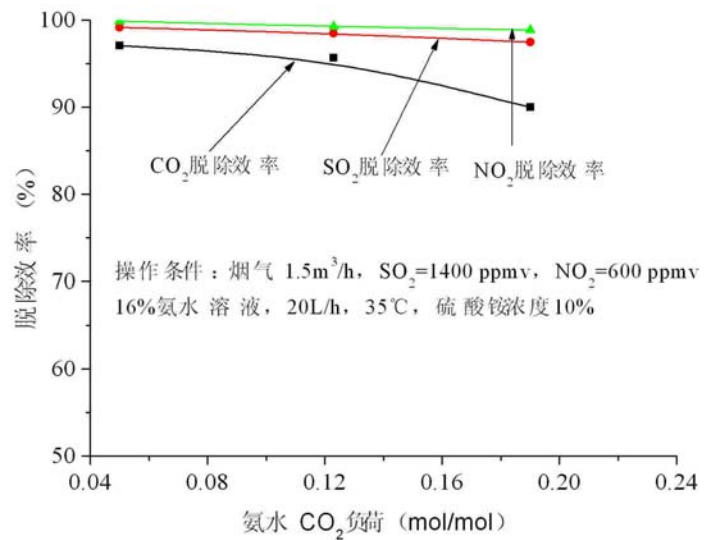


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## 4.2 CO<sub>2</sub> Control Technology



Pilot to use aqueous ammonia  
to de (CO<sub>2</sub>、NO<sub>x</sub>、SO<sub>x</sub>)



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## 4.3 Environmental Treatment

- Coal fired Power Plant Desulphuration
- Steel Plant's sintering machine Desulphuration
- Coal Fired Power Plant Denitrification
- The treatment of Solid waste
- The treatment of sludge from waste water treatment plant
- The multi-pollutant control technology

## 4.4 Water Conservancy Informationalization



- Mountain Torrents Disaster Early Warning System
- Water recourses monitoring and management System
- Water Quality Monitoring System for Tap Water Pipe Networks
- Reservoir information management system
- ecologic rectify
- Remote Monitoring system for Water Rain
- Flood control and Disaster reduce command System
- Automatic Monitoring System for Groundwater
- The Dam Safety Monitoring System
- Clean the riverbed sludge

## 4.4 Water Conservancy Informationalization



**Rainstorm and Flood monitoring System under the 2010 national Mountain torrent disaster of non engineering measurements:**

**Including Mountain torrent Early Warning Systems, rainstorm and flood Monitoring systems, rainfall Auto-monitoring stations, rainfall level Auto-monitoring stations of Wuning and Ruichang county in Jiu Jiang City.**



***Thanks!***

