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# Thinking Climate Change's Mitigation and Adaptation from the local community's perspective

Taking the Forest sector as example

## Outline



- About Shanshui Conservation Center
- Climate Change and Local Community
- Case: CDM small scale Afforestation Project
- Case: Diverted water for Combating Extreme drought
- Conclusion



# About Shanshui Center



Shan Shui Conservation Center is a Chinese NGO based at Peking University in Beijing, where it was founded in 2007 with support from Conservation International.

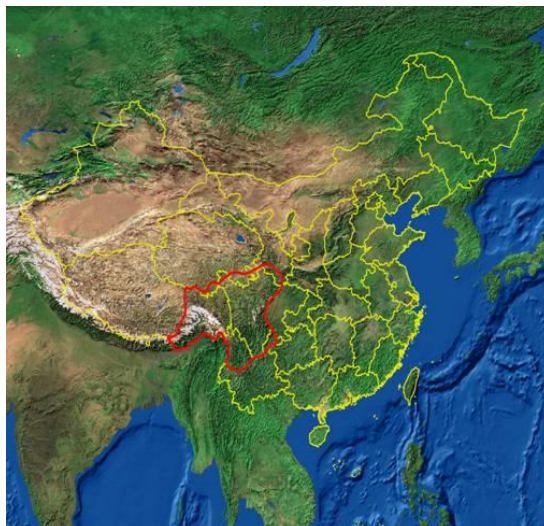
## Shanshui's STRATEGIES

*Supporting Local Actions*

*Motivating Societal Change*



## Shanshui's Working Area

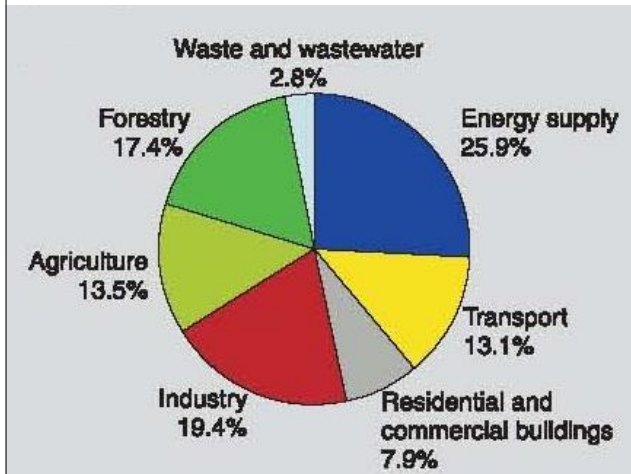




# Climate Change and Local Community

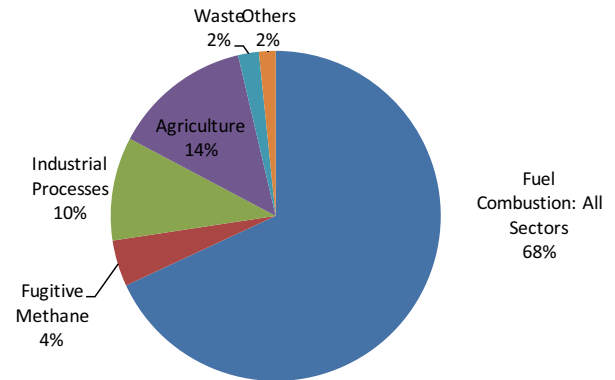


Local Community's GHG emission per capita is very low, its contribution to Greenhouse Gas can not be ignored, especially from the Agriculture and Forestry sector. And, the Low carbon actions by local community are very crucial.



Source: IPCC 2007

China's GHG Emission by Source in 2005



Compile from IEA's report



# Climate Change and Local Community



There are some actions can be taken by local community to reduce GHG emission, including Sustainable Agriculture management, Forest Conservation and Sustainable Forest Management.

Regarding to CDM, there are 9 methodologies for Afforestation and Reforestation approved by EB, there is 1 methodology for Agriculture sector approved by EB. There are some other methodologies are relevant to local community, for example, the renewable energy, Biofuel and others.

REDD + will create new opportunities and challenges for local community's GHG emission reduction.



# Climate Change and Local Community



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Sector	Adaptation option/strategy	Underlying policy framework
<b>Water</b> {WGII, <a href="#">5.5</a> , <a href="#">16.4</a> ; Tables <a href="#">3.5</a> , <a href="#">11.6</a> , <a href="#">17.1</a> }	Expanded rainwater harvesting; water storage and conservation techniques; water re-use; desalination; water-use and irrigation efficiency	National water policies and integrated water resources management; water-related hazards management
<b>Agriculture</b> {WGII <a href="#">10.5</a> , <a href="#">13.5</a> ; Table <a href="#">10.8</a> }	Adjustment of planting dates and crop variety; crop relocation; improved land management, e.g. erosion control and soil protection through tree planting	R&D policies; institutional reform; land tenure and land reform; training; capacity building; crop insurance; financial incentives, e.g. subsidies and tax credits

Source: IPCC 2007

Moreover, Conservation of Natural ecosystem is the best way for Climate Change Adaptation.



## Case 1: CDM A/R Project



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### Project:

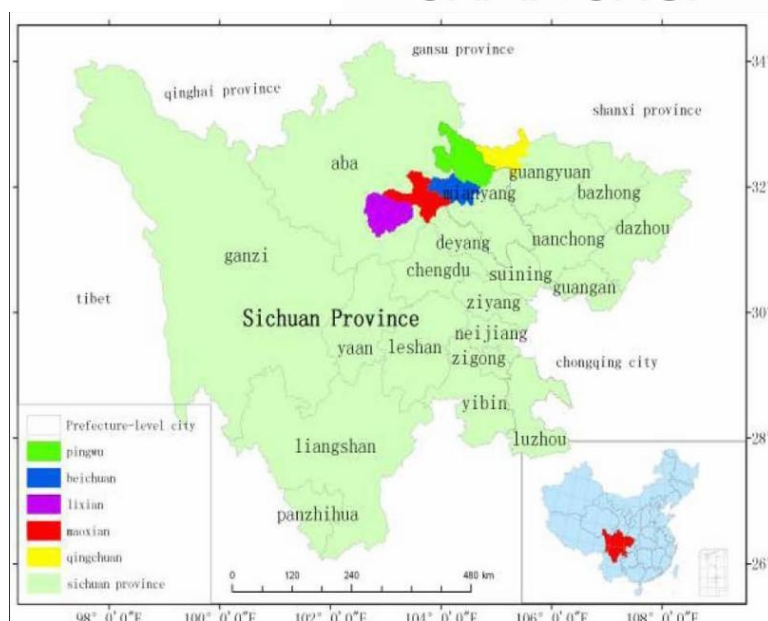
Afforestation and Reforestation on Degraded Lands in Northwest Sichuan, China

**Total Area: 2251.8 ha**

**tCERs awarded:** 460,603 metric tonne of CO<sub>2</sub> equivalent

**Duration: 20 years**

**Beneficiary:** About 12,745 local farmers of 3,231 households will benefit from the project, including 5,384 people of ethnic minorities



# Case 1: CDM A/R Project

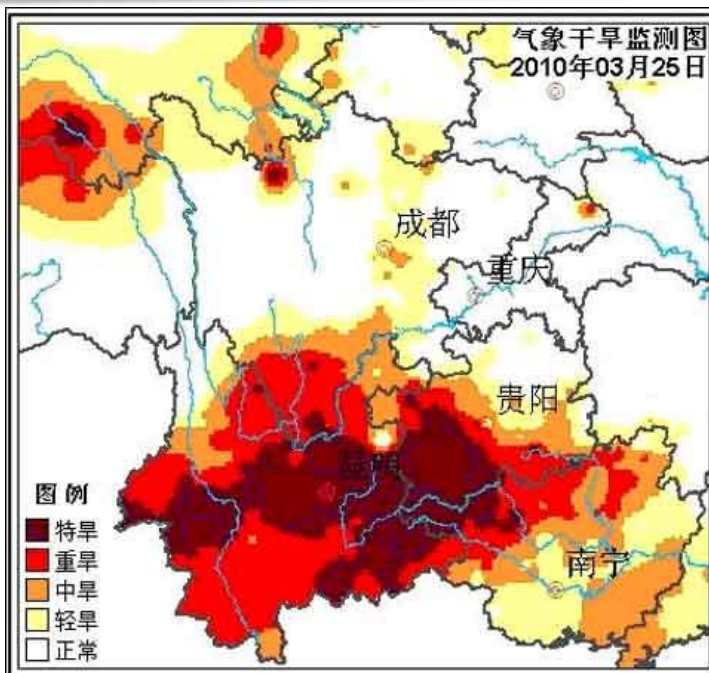


It is first CCBA labeled CDM approved in the world. Where CCB is the global well known standard for Climate, Community and Biodiversity Alliance.

It is second CDM A/R Project in China.



# Case 2: Ecosystem based Adaptation



From Sep. 2009 till May 2010, Southwest China has suffered severe drought. Where 50 million rural people were suffered.

Water is scarce for daily use and agriculture.





## Case 2: Ecosystem based Adaptation



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5 Villages around Nature Reserve have been afforded by diverted water from Nature Reserve.

Agreement between the local community and Nature Reserve authorities to promote the Conservation of Water source.

Concept of Ecosystem based Adaptation was recognized by the government, local community, Nature Reserve and Public



# Discussion

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How can local communities contribute to the reduction of greenhouse gas emissions?

What kind of Adaptation options and strategies can be adopted by the local communities?



# Thank you!