



# The pathway for low carbon rural village in Southwest China

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# Why Rural Village matter? (1)

Still very low in terms of the primary energy consumption

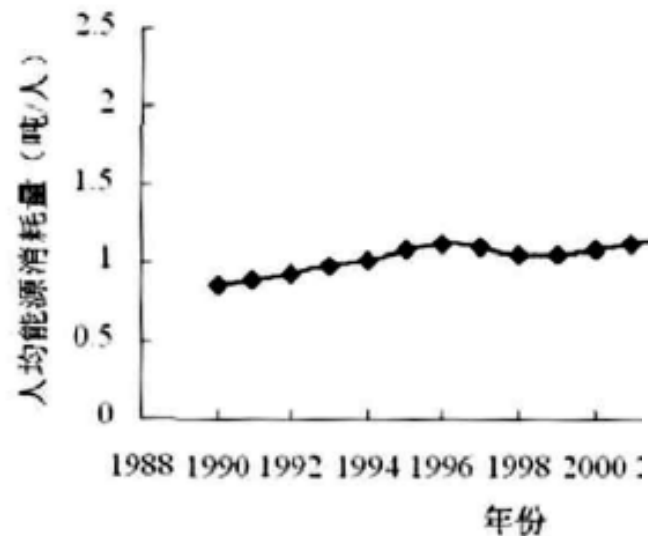
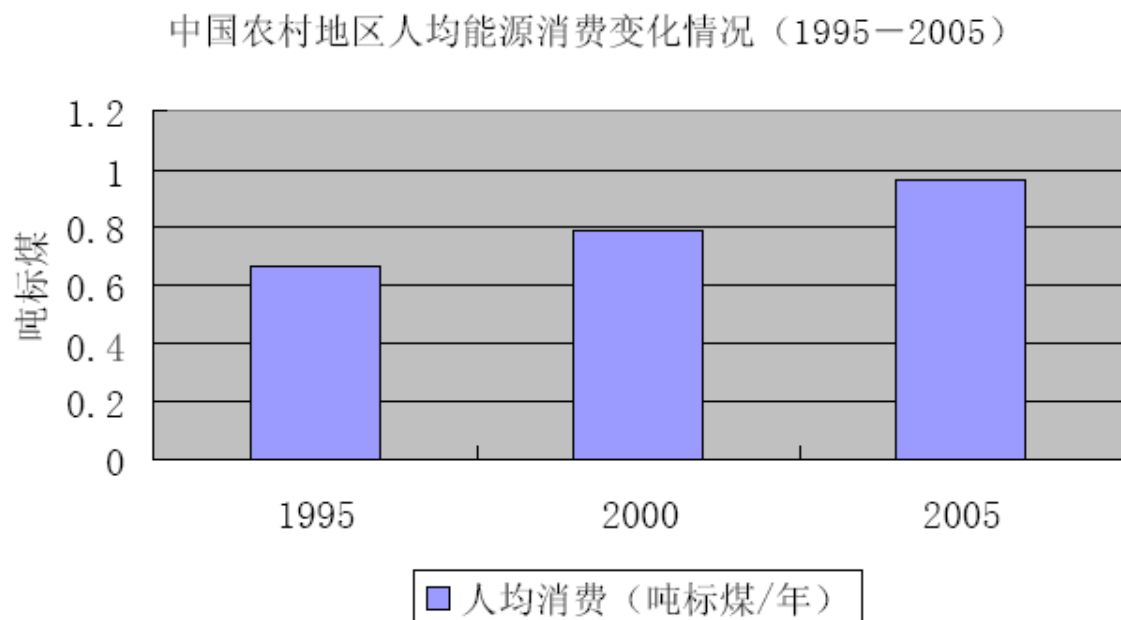


图6 1990 - 2007 年中国人均能源消耗量

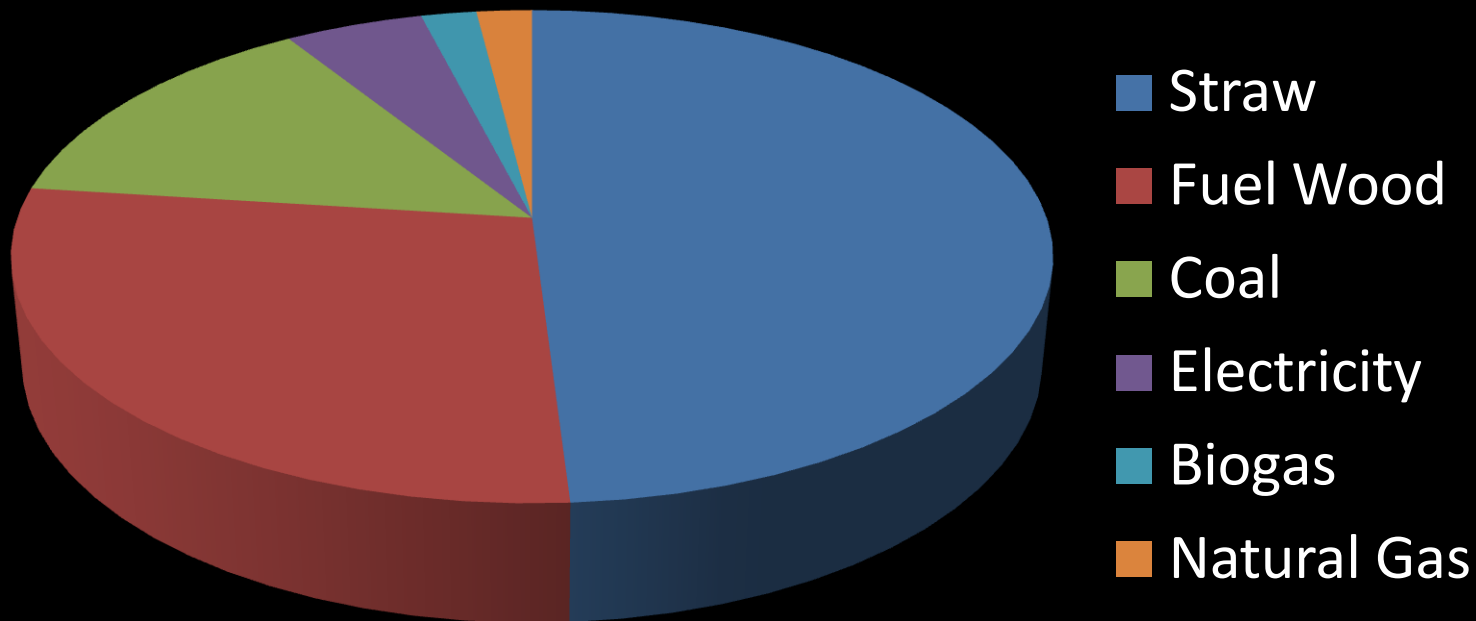
Average energy consumption in China's rural village during year 1995 to 2005.



Average energy consumption in China.

# Why Rural Village matter (2)

Highly depends on fuel wood and straw



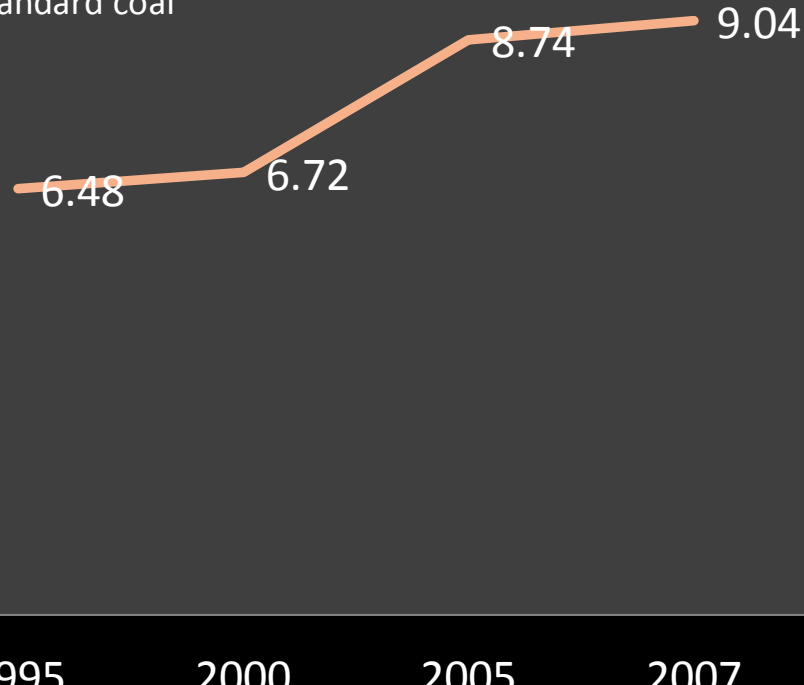
The energy sources for China's rural village in year 2007

# Why Rural Village matter? (3)

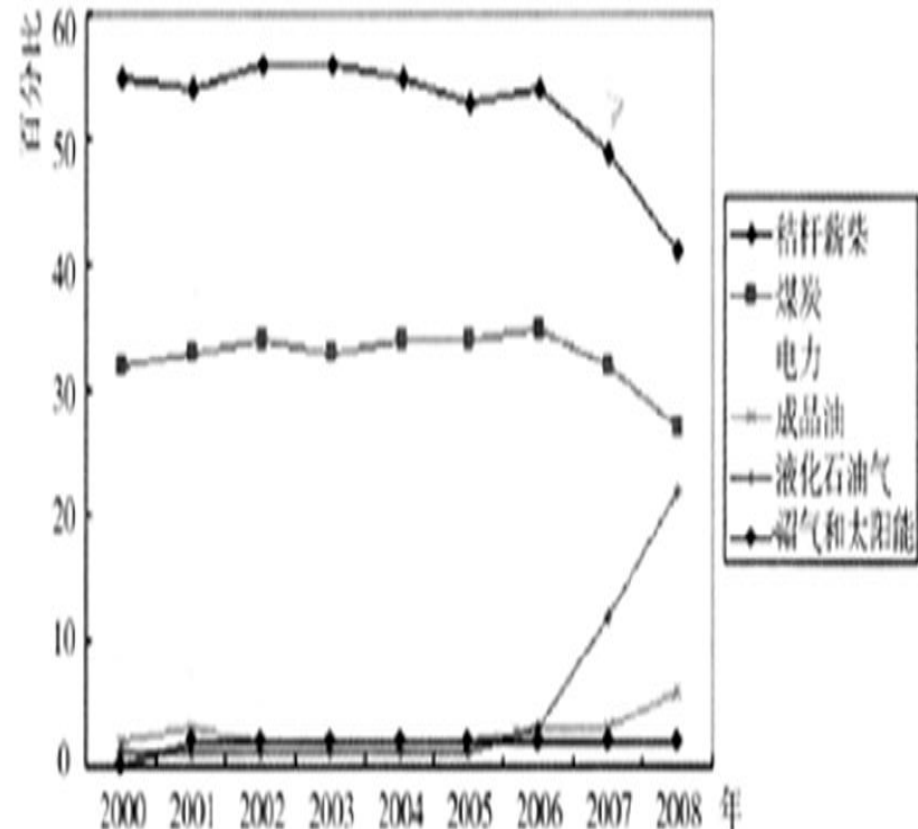
The trend of use of fossil fuel is increasing and the rural village should not repeat the path for urban community.

## Increase of China's rural energy consumption from year 1995-2007

Unit: Hundred Million tons standard coal



## The use of fossil fuel is increasing



# Why Rural Village matter? (4)

## Problems:

1. Increasing of the fossil fuel will lead to higher emission.
2. The straw is abandoned
3. The unsustainable use of fuel wood leads to the degradation of forest.



# Story: the sustainable use of fuel wood and straw in Gansu (1)

Spread the fuel wood saving stove and biomass tank to use the biomass efficient



# Story: the sustainable use of fuel wood and straw in Gansu (2)



<i>Indicator</i>	<i>Value (Per household)</i>
Energy efficiency rate	50%
Reduce the use of fuel wood	2.1 ton-2.8 ton
The quantified reduction by standard coal	1.2 ton- 1.6 ton
Emission reduction (Avoid Forest degradation)	3.3 ton- 4.4 ton
The cost	\$80--\$150
The lifespan	5-10 years



# Low carbon Rural village

1. Qualified low carbon emission.
2. Adapted to climate change through the forest conservation
3. Take renewable energy as an opportunity to promote the social economy development.



# Suggestion:

1. Biomass is the sustainable renewable energy in rural China. The policy should pay more attention to biomass technology and fund source.
2. The efficient biomass utilization can not only contribute to climate, but also avoid forest degradation.
3. Low carbon pathway in rural village is possible with less cost.

# Thank you!

