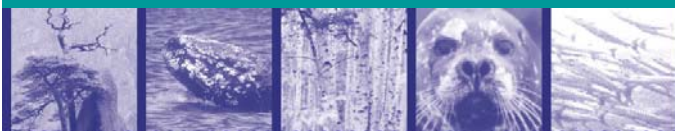


Towards Low Carbon China?

Wen Bo

Pacific Environment
Global Greengrants Fund



PACIFIC ENVIRONMENT

www.pacificenvironment.org



Economic Development & Environmental Challenges



Rise of China in economic strength

- * Favorable foreign investment policy
- * An export oriented economy
- * Fixed-asset investment
- * Utilization of nature resources
- * Labor force and capital reserve
- * Economy of scale
- * Huge domestic demands/consumption
- * "Socialist" market economy



PACIFIC ENVIRONMENT

www.pacificenvironment.org



Development goal vs Goal of development

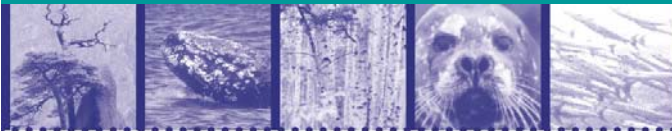


A government-dominated economy:

infrastructure and mega- projects

State-owned enterprises demand more resources and markets

Overcapacity lead to "go-out" policy

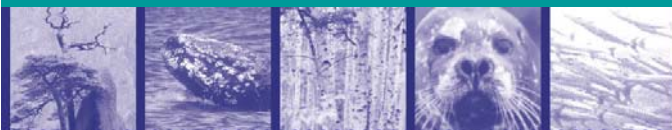


PACIFIC ENVIRONMENT

www.pacificenvironment.org



Goal of Development



PACIFIC ENVIRONMENT

www.pacificenvironment.org



In search of development model

Chinese leadership and local governments are committed to vision of China' moderation

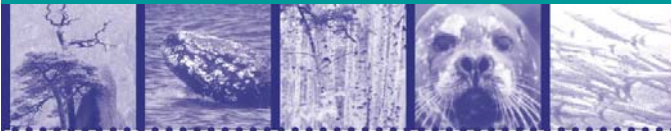
Lack of public institutions which exist in the developed countries

From "Three Represents" theory to "Harmonious Society"

Establish new social security system

Chinese families prepare for future overhang

Investment in housing drives real estate boom



PACIFIC ENVIRONMENT

www.pacificenvironment.org



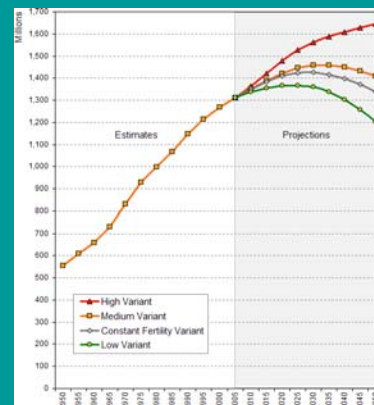
Striving for a Low Carbon Economy

- Other efforts:
 - Strengthen corporate social responsibility
 - Develop government efficiency assessment systems since 2004
 - Anti-corruption efforts
 - Energy conservation and renewable energy development



Population Control

- **Most populous country**
- **20% of world population**
- **Around 1.3 billion with 0.606% growth rate**
- **Effective family planning policy since 1972**
- **Strictest policy began in 1979**
- **“One Family, One Child”**
- **Slogan “One is best, at most two, but never a third”**
- **Changing attitude towards Children in 21st century**
- **Late marriage and late birth**



Sustainability vs Realities

- * **Environmental degradation**
 - Along with massive population and unprecedented economic development
 - Significant barriers to Sustainability
- * **Economic growth**
 - Increasing negative environmental consumption, e.g. automobile
 - Rising demand for energy
 - Threats to the Earth's future environment
- * **Growing income disparity**
- * **Lack of a mature civil society sector**

Environmental degradation

Air pollution

The air in many Chinese cities is among the most polluted in the world. In Beijing and other parts of the northeast, levels of nitrogen dioxide – which is known to cause respiratory problems – have jumped 50 percent since 1996. Nitrogen dioxide is released by power plants, heavy industry and vehicle traffic.

- Same pollution as L.A.
- 2 times L.A.
- 3 times L.A.

Land becoming desert

At current rates, the desert in northern China will bury an area about the size of New Jersey every five years. Reforestation efforts have expanded forest coverage, but desertification remains a significant risk.

Water scarcity

More than 600 million people live in provinces under water stress.

Acid rain

Caused mostly by emissions from burning coal, acid rain damages buildings and crops in about 30 percent of the country.

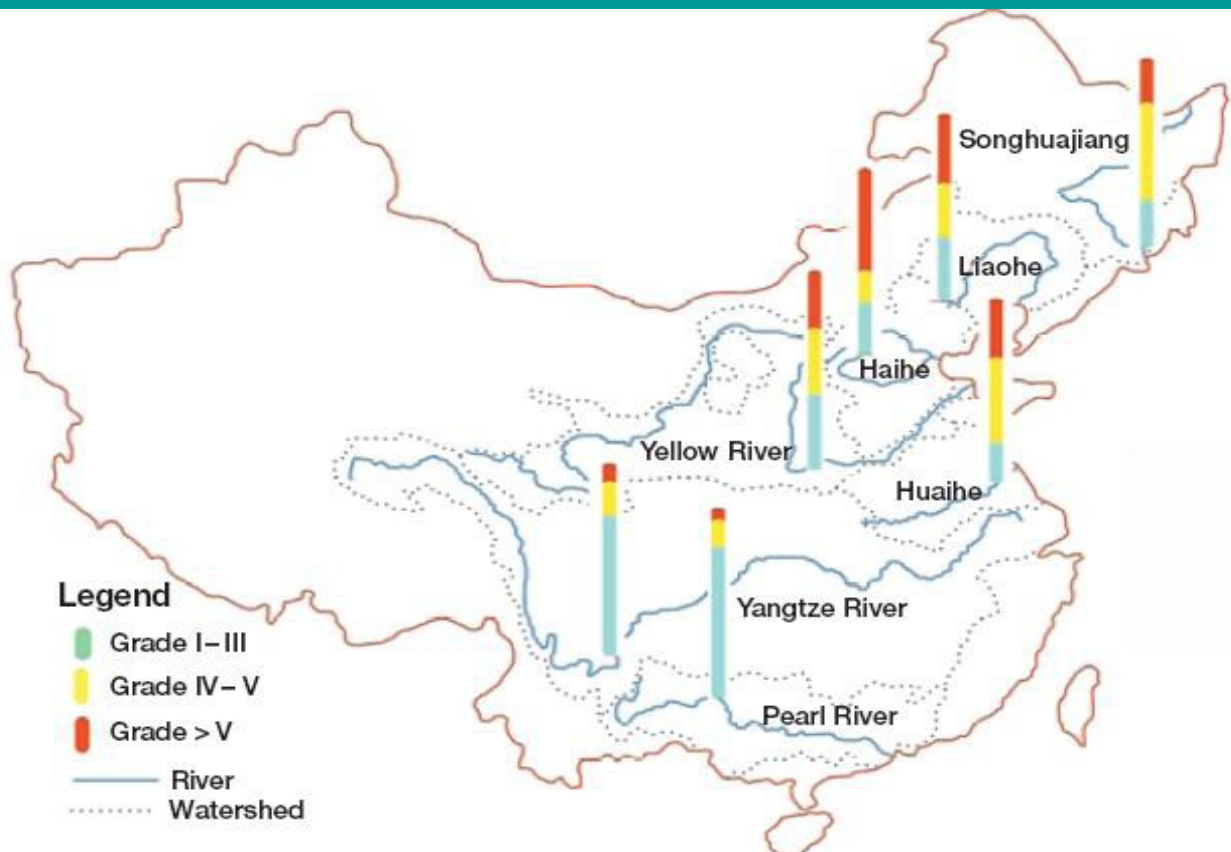
Population density
Shading indicates population per square mile in 2005.

0 50 500 2,000

Water pollution of seven large rivers

Legend

- Grade I–III
- Grade IV–V
- Grade > V
- River
- Watershed



11th-Five Year Plan (2006-2010)

- **Energy consumption per GDP decline by 20 %**
- **Total amount of major pollutants discharged reduce by 10 %**
- **Forest coverage from 18.2 % to 20 %**
- **Comprehensive utilization of solid wastes increased to 60 %**

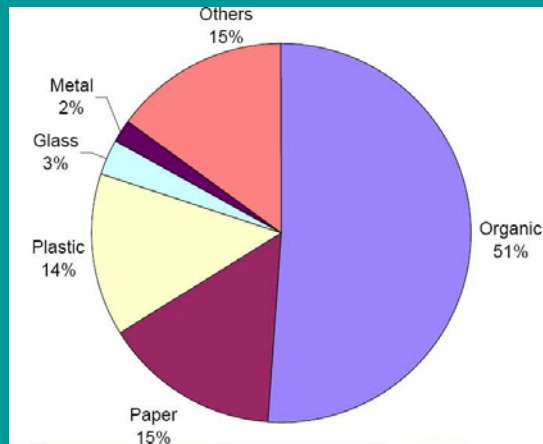
Challenges to achieve low carbon economy in China

- **Lack of good governance**
- **Weak citizen participation**
- **Institutional/Policy constraints**
 - –Weak environmental ministry which lacks capacity in term of human resources as well as regulatory functions
 - –Insufficient capacity of local officers in terms of information and training on the implementation of MDGs
 - –Inconsistent and overlap institutions, and even policies

Solid Waste

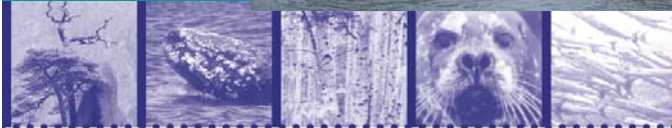
- Waste incineration
- Rapid Waste generation versus less developed waste treatment
- Undercurrent of imported waste, especially E-waste

over 70% of world's e-waste dumped in China



Energy

- * **Expand use of renewable energy**
- * **Secure global supply**
- * **"Energy conservation; Reduce emission"**
- * **Climate change - gradually gaining concern**

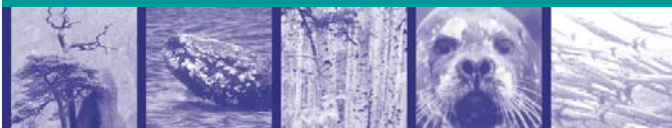


PACIFIC ENVIRONMENT

www.pacificenvironment.org



Sustainable Consumption and Lifestyle



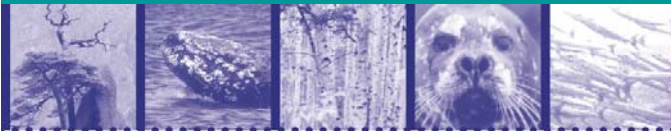
PACIFIC ENVIRONMENT

www.pacificenvironment.org



Depelation of Natural Resources

- International trade and smuggling of wildlife species
- Decline of marine fishery
- Lack of sound resources management



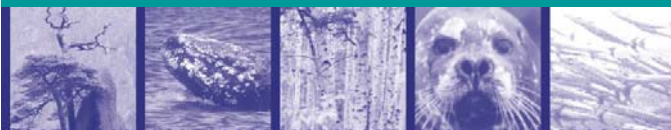
PACIFIC ENVIRONMENT

www.pacificenvironment.org



Species in Danger

- Marine mammals
- Sea Turtles
- Coral species
- Sharks

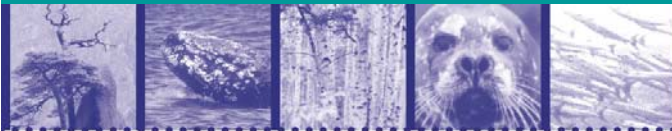


PACIFIC ENVIRONMENT

www.pacificenvironment.org



Illegal Trade on Endangered Species

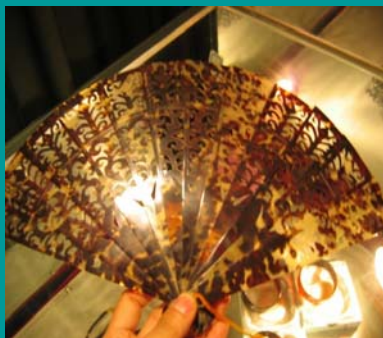


PACIFIC ENVIRONMENT

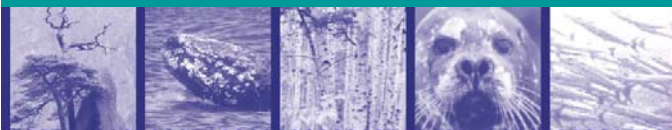
www.pacificenvironment.org



Sea Turtle Trade



**Most of Sea
Turtles are caught
and smuggled
from Southeast
Asian countries**



PACIFIC ENVIRONMENT

www.pacificenvironment.org



Shark Consumption and Trade



Puqi Township, Wenzhou, as the world's capital of shark processing industry



PACIFIC ENVIRONMENT

www.pacificenvironment.org



Shark Processing

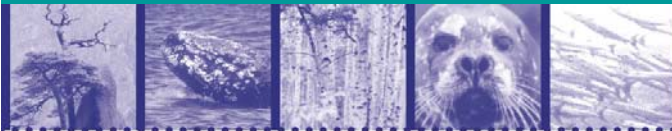


PACIFIC ENVIRONMENT

www.pacificenvironment.org



Lifestyle has impact on eco-system



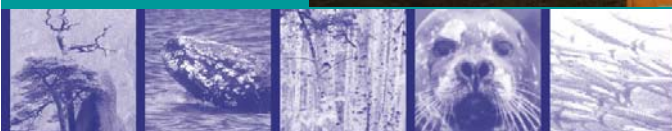
PACIFIC ENVIRONMENT

www.pacificenvironment.org



Civil Society Approach

Supporting the grassroots through small grants, capacity building support, networking opportunities, trainings and workshops.

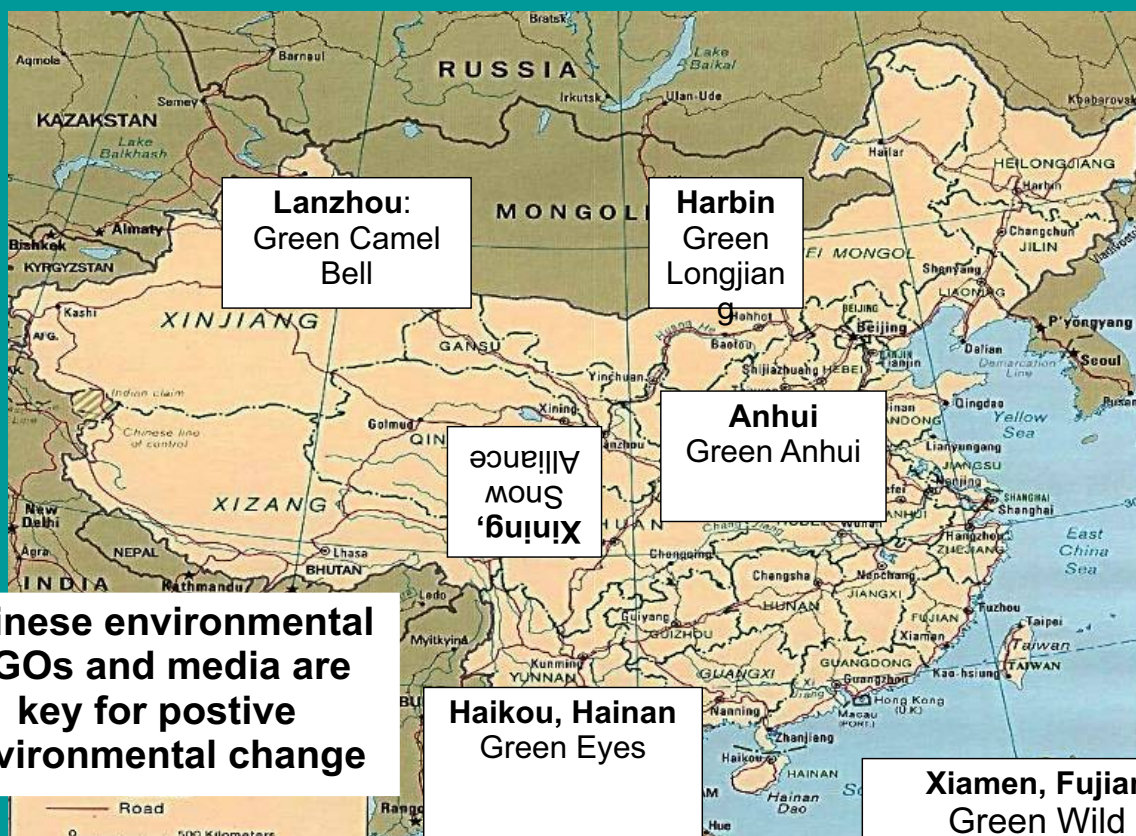


PACIFIC ENVIRONMENT

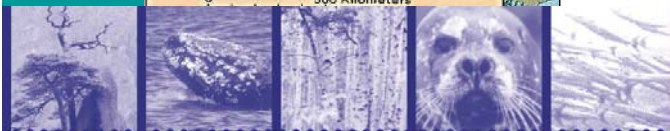
www.pacificenvironment.org



Emerging Chinese Environmental groups



Chinese environmental NGOs and media are key for positive environmental change



PACIFIC ENVIRONMENT

www.pacificenvironment.org



Thanks!

