

CHINA ENVIRONMENT FORUM





China's Water Risks and Sustainable Coffee Production

http://www.theguardian.com/sustainable-business/2015/may/18/spilling-the-beans-chinas-growing-coffee-culture



Annual Per Capita Coffee Consumption







But Lester Brown Says.....

331 Сирз

"1.3 Billion Times Anything is a Whole Hell of A Lot."







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106 Billion Cups

Living Under the Dome

Source: Associated Press



Illustration by Mikel Jaso http://www.bloomberg.com/news/2011-07-06/why-we-care-about-the-price-of-water-in-china-peter-orszag.html

Rivers Run Red, Green, Denim Blue....



300 Million

AREENPEACE

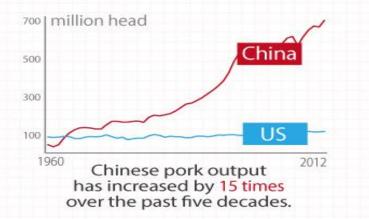
THE PORK INDUSTRY IN CHINA



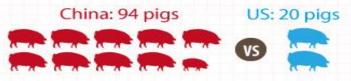
65% of the meat consumed by China is pork.



Per Capita Annual Pork 81 LBS Consumption in China



High hog population density in China has tightened supplies of feed and damaged the environment.

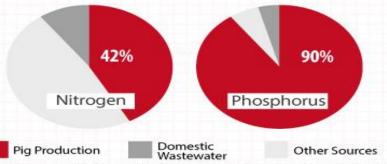


per 100 acres of cropland

The average pig in China produces 5.3 kg of waste each day, which contains nutrients, heavy metals, and pharmaceutical residues.



Pig production accounts for an estimated 42% of nitrogen and 90% of phosphorus flows into the South China Sea.*



* Including the Pearl River basin in Guangdong Province, the Chao Phrya River basin in Thailand, and the Red River and Dong-Nai River basins in Vietnam.



Eutrophication of surface water damages wetlands and fragile coastal ecosystems



Leaching nitrates and pathogens contaminate soil and water



Excess nutrients and heavy metals damage soil fertility and shrink arable land



Ammonia, methane, and other gases cause pollution and contribute to greenhouse effect



Diseased pigs are not always disposed of properly – 16,000 carcasses were found in the Huangpu River in 2013

Livestock farm waste is about



the amount emitted from industries.



of waste is produced by the Chinese pork industry per year.

Source: USDA EPS EAO Special Thanks to Fred Cale Designed by Sigi Han 02/27/2014 @ CEE



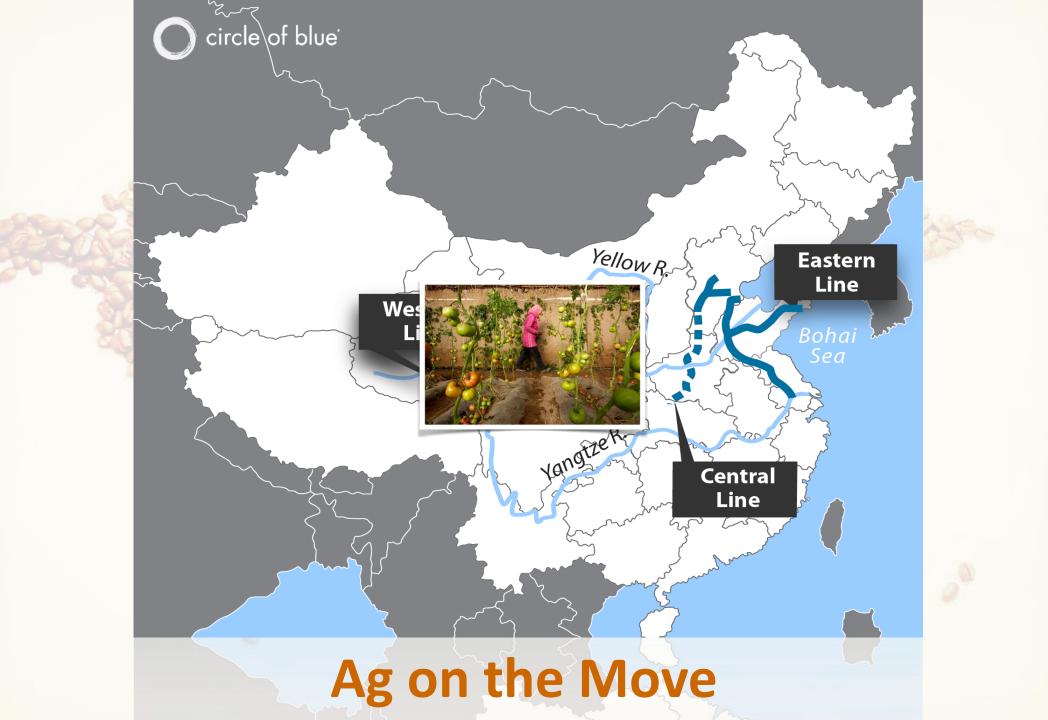
Source: WRI Aqueduct 2013



The King is Thirsty



China's Demand for Energy is Outpacing its Freshwater Supply





Water on the Move



South-North Water Transfer Project, 2050

Crushing Droughts in Water-Rich South





Dammed & Diverted Rivers

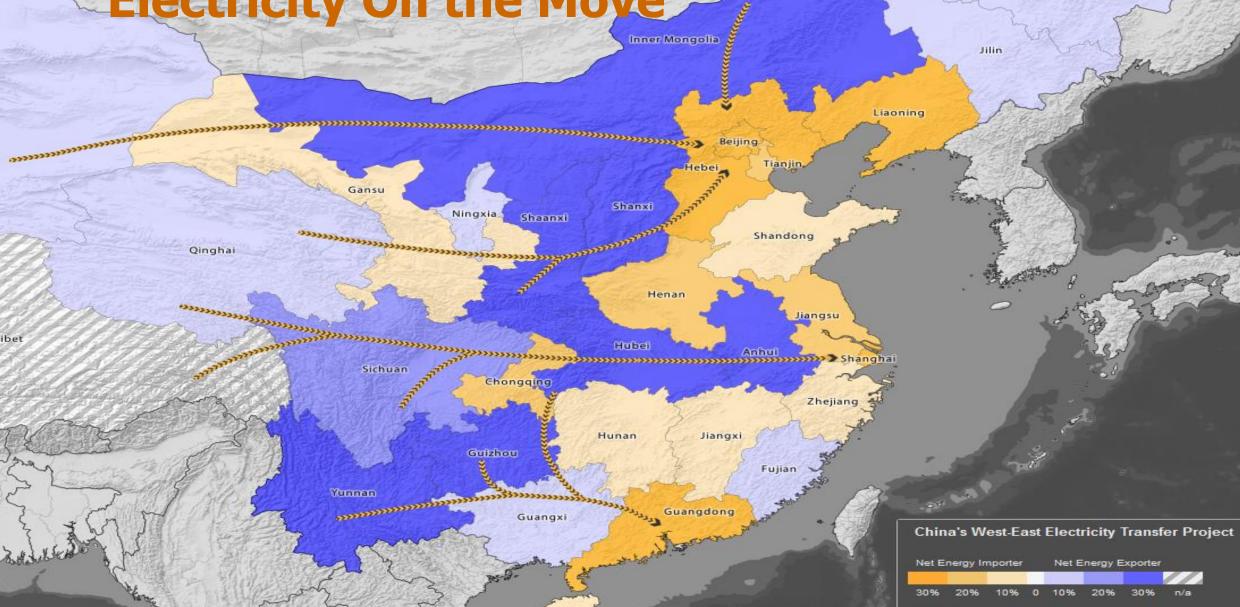




87,000 and Counting.....

Electricity On the Move

Tibet



Hainan

Inner Mongolia

. Energy Corridor

Jilin

Source: China Energy Yearbook 2003, 2007, 2010; China Statistical Yearbook 2011; Natural Earth map data



Water Pollution Action Plan

NOT all Gloom and Doom!

Sponge City

Red Lines

Public Interest Lawsuits

Higher Fines for Polluters

Greening Local Government Evaluations



Jennifer.turner@wilsoncenter.org

ONE



www.wilsoncenter.org/cef