Competition Between Water, Energy, and Food in China and India
China’s New Energy Prince?
Beijing Subway Map 2007
Seven and Counting......
China’s Demand for Energy is Outpacing its Freshwater Supply

The King is Thirsty
Water on the Move
Agriculture on the Move
Rivers Run Red, Green, Denim Blue...
**CHOKE POINT: INDIA**

**SECOND-LARGEST POPULATION:** With 1.27 billion residents as of June 2013, India is currently the second most-populated nation in the world, though it is expected to pass China in 2025.

**THIRD-LARGEST GRAIN HARVEST:** Free water and free electricity is provided to grain farmers in India, which has led to massive surplus – 62 million metric tons of rice, or 60% of last year's harvest, is currently stored in government depots. Typically, India has about 25 million metric tons in storage.

**FOURTH-LARGEST ENERGY CONSUMER, FIFTH-LARGEST COAL RESERVES, & THIRD-LARGEST COAL PRODUCTION:** India has 67 billion metric tons in proven reserves still to be mined, and India pulled 540 million metric tons of coal from its mines last year.

**NINTH-LARGEST FRESHWATER RESERVES:** India’s annual renewable water reserves total 1,608 billion cubic meters a year.

**INDIA’S RESOURCE PROBLEMS:** are not those of SCARCITY, but rather of INEFFICIENT USE and bureaucratic policies.
ANOTHER BLACKOUT

- Jammu & Kashmir
- Punjab
- Himachal Pradesh
- Uttarakhand
- Haryana
- Delhi
- Rajasthan
- Uttar Pradesh
- Bihar
- West Bengal
- Jharkhand
- Odisha

IBN Live
Free power
Free water
Huge surpluses

2012

62 Million metric tons of rice

60% of annual crop

19% of electricity

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Rising coal production

2013 Production 558 million metric tons

Since 2003 Average annual increase: 20 million metric tons
Demand is rising faster

2013 Demand
772 million metric tons

2013 Imports
192 MMT

2003
25 MMT
Jiantia Hills Box Coal Mine
Impediment
One-third of power is lost or stolen

©J. Carl Ganter
2003 Electricity Act
50,000 Megawatts
162 Dams

Prime Minister Atal
Bihari Vajpayee
Vishnuprayag