A New Era of Water Governance

China is the world’s 2nd largest economy with GDP of over USD 12.2 trillion

China has 21% of the world’s population
but only 9% of the world’s cultivated land
and 6% of the world’s water resources
Per capita endowment of water resources is one-fourth of the global average

700 billion m³

- 40 m³: Cap the national annual water use at 700 billion cubic meters
- 95%: Reduce water use to 40 m³ per USD 1450 industrial added value and increase irrigation efficiency to 60 percent
- 95%: 95 percent of major water function zones must comply with water quality standards, and all sources of drinking water must meet national standards

Source: Minzhe

THE STRICTEST WATER RESOURCES MANAGEMENT SYSTEM, KNOWN AS THE THREE RED LINES, REQUIRES BY 2030 TO
Moving Toward Water Consumption Management

Allocate Water Consumption Target

Basin ➔ County ➔ Farmers/WUAs

Reducing Actual ET to Achieve Target ET, while Increasing Farmer Incomes

Engineering Options
- Sprinkler Irrigation
- Drip Irrigation
- Inadequate Irrigation...

Agronomic Options
- Crop Pattern Adjustment
- Mechanical Water Storage and Moisture Conservation
- Covering Technology...

Political and Institutional Options
- ET-Based Water Rights
- ET-Based Water Pricing
- Irrigated Land Reduction...
Thank you!

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