

A Changing Waterscape Impacts From A 'Beautiful China' 建设美丽中国的影响

April 24 2018

chinawaterrisk.org



CHINA WATER RISK is a non-profit initiative dedicated to addressing business and environmental risk arising from the country's urgent water crisis.

We aim to foster efficient and responsible use of China's water resources by engaging the global investment and business communities, civil society and individuals in understanding and managing China's water risk.

ACT NOW, visit us at www.chinawaterrisk.org









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Yangtze Flows: Pollution & Heavy Metals

Areas along the Yangtze dominate Chinese production but at what cost? CWR's Hu analyses water & food risks ... more

2015 State of Environment Report Review

China says overall environment quality worsened in 2015; get the latest on rivers, groundwater, lakes & reservoirs ... more

Water-nomics: Trade-offs Along The Yangtze

Check out key findings from the CWR & MEP FECO brief on various strategies to find the right mix of water-nomics ... more

Floating Solar: A Solution for China?

ANALYSIS →

China's Soil Ten

OPINIONS →

With ~1/5 of China's farmland

polluted, the Soil Ten Plan could not

"Hateful Eight" polluting industries &

Plastic, China & The Circular Economy

LASTICIT

& GOING CIRCULAR

PLASTIC,

Singapore International

Attend SIWW to talk with

latest water innovations ...

industry players on the

10-14 July, 2016

Only ~10% of plastics gets recycled.

Doug Woodring, founder of Plasticity

Forum, shares key points from the

5th annual forum on the circular

NOTICES & EVENTS → CWR & MEP FECO

Yangtze River Economic

17 Jun 2016 - CWR & MEP

FECO publish joint brief on

Yangtze water-nomics

future of plastic ... more

Water-nomics of the

but this is where opportunities lie.

come sooner. See impacts to the

get the distilled version of the 231

actions in our review more

Floating solar is well-suited to China's hunger for power and its limited water & land. CWR's Thieriot & Xu expand ... more

MINISTRY OF **ENVIRONMENTAL PROTECTION** Photo © Debra Tan

SECTORS →

◆ AGRICULTURE

During the 13FYP China is building a "Beautiful China", with "blue skies, green land & clear running water". See what this means for you...more

పా POWER⊸

Water risks are omnipresent but vet their financial valuation is still missing. CWR's Thieriot on existing initiatives, gaps & numbers... more

FOOD & BEVERAGE

In 20 years China has become the world's No. 1 bottled water consumer but at what cost? Does it mean safer water? CWR's McGregor & Liu expand... more

METALS & MINING → Dr. Dryden, inventor of AFM®

shares how the upcycled glass filter means lower bacteria and costs; plus multiple industry applications...more

TEXTILES →

32% - 75% of hides, wool, cotton, chemical fibre & silk are either made in or passed through China as imports. CWR's Tan on this exposure... more

☐ LECTRONICS

Paper packaging in China used the same amount of water as Beijing's municipal use & discharges similar amount of wastewater as coal... more

BIG PICTURE →

ENGLISH 简体中文

EAT A STEAK OR TAKE A BATH?



8oz steak uses ~3.500 litres of virtual wate = a staggering 17 bathtubs filled to the rim (average bathtub holds 200 litres of water)

SEE THE WATER 'FOODPRINT' OF YOUR DIET IN THE BIG PICTURE

NEWS →

February 02 2016, Ministry of Agriculture of the People's Republic of China

China works for more efficient water use in agriculture

BEIJING, Jan. 30 (Xinhua) -- China plans to make the water use in agriculture more efficient with measures such as tiered pricing, wider.

January 07 2016, China Daily

Economic Belt in Southwest China's.

Xi stresses 'green development' along Yangtze River - China - Chinadaily.com.cn Chinese President Xi Jinping holds a symposium on improving the development of the Yangtze River

February 02 2016, Ministry of Agriculture of the

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What President Xi wants ...





Green lands...





Clear waters...







WAR ON POLLUTION 向污染宣战

"We will resolutely declare war against pollution as we declared war against poverty"

"像对贫困宣战一样坚决向污染宣战"

Premier Li Keqiang 总理李克强 National People's Congress, 2014

Ecological Red Lines are drawn ...

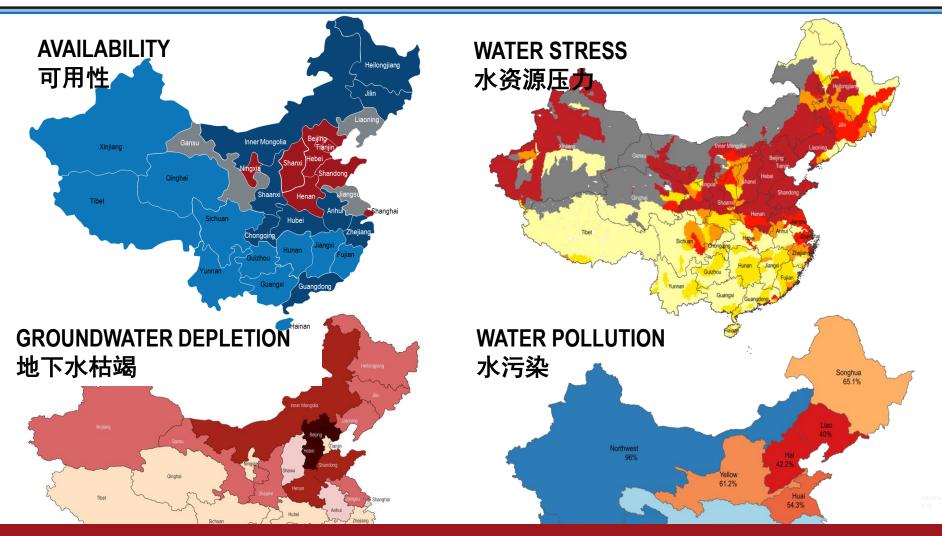




+ Amendments in the Environmental Protection Law +环境保护法修订

Different maps = major water challenges...

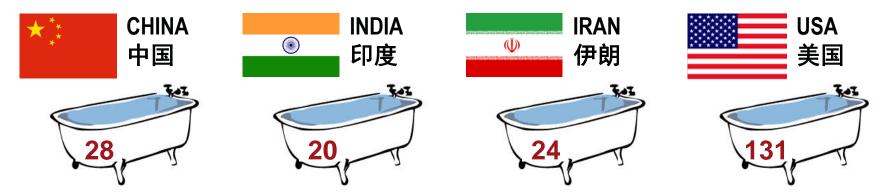




Managing Mismatch / \$\$\$ vs Environment 管理差别 / \$\$\$ vs 环境

The real liquidity crisis ...





TOTAL ANNUAL RENEWABLE RESOURCES = WATER/ PAX/ DAY

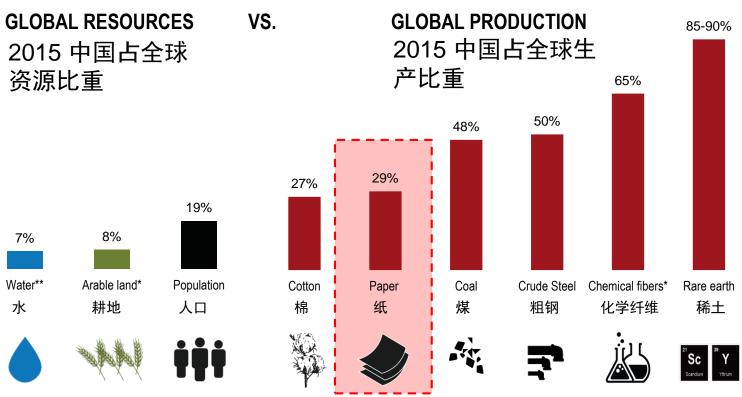
全年可再生水资源总量 = 人均日用水量

Asia's future = business unusual / Local risks = global disruptions 亚洲的未来 = 新的商业模式 / 地区性风险 = 全球性影响

Making stuff for everyone ...



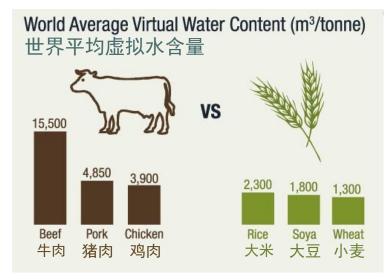




Can China continue to be the for the rest of the world? 中国可以继续做全球的生产地吗?

Choices, choices, choices ...









2000-2011: rising water use per capita



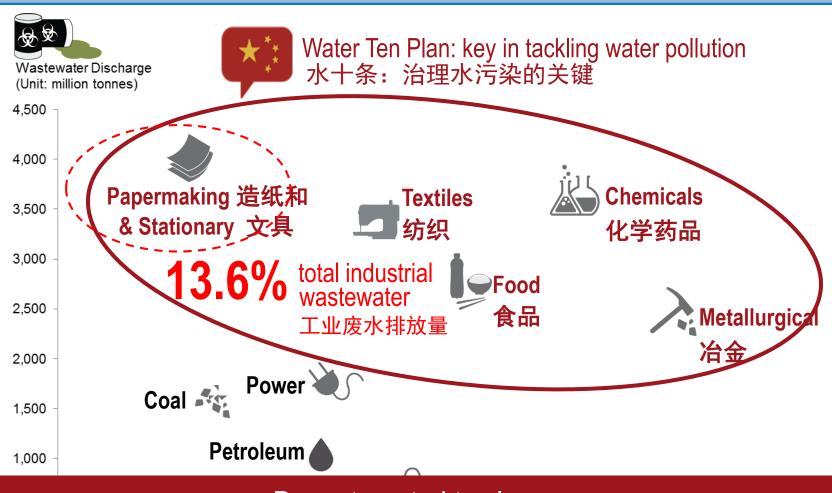
Allocation of resources = fine balancing act 资源分配需要良好的平衡

Sectors

2,000

4,000





Paper targeted to clean-up 造纸行业必须清洁生产

8,000

6,000

12,000 14,000 Industrial Output (Unit: RMB billion)

10,000

Circular Ten vs Made in China 2025



Circular Economy 循环经济
Coal
Power
Steel
Textiles
Nonferrous Metals
Petroleum & Petrochemicals
Chemicals
Food
Building Materials
PAPER 造纸

Made in China 2025 中国制造2025	
Energy Saving & Clean-Energy Vehicles	
Power Equipment	
Biomedical & High Performance Medical Devices	
NEW MATERIALS 新材料	
Next Generation IT	
Advanced Rail Transportation Equipment	
Advanced CNC Machine Tools & Robots	
Agricultural Machinery	
Aerospace Equipment	
Marine Engineering Equipment & High-tech Ship	

Both lists point to a Business Unusual future 两个战略都指向未来新的商业模式

Paper sector being hit...



MEP investigates 23 factories; many fined, ordered to stop production & 4 arrested

多家造纸厂被环保督查组勒令整改、停产

中国 紙业网 CHINAPAPER.NET Factories closed in many places; capacity falls by 275.000t in one month

15-10 来源: 华印纸箱

多地造纸企业被停产一个月原纸产能将减少27.5万吨

时间: 2016-11-17 09:00:14 来源: 华印纸箱

别指望环保风暴会停 广东247家造纸、纸箱厂再遭严查

发布日期: 2017-01-13 来源: 华印纸箱

环保部查处23家造纸厂:多家遭停产或罚款、4人被抓!

发布日期: 2018-02-24 来源:华印纸箱 责编: perhaps 浏览次数: 1344 版权与免责声明 🔍 🔍

年内最大规模环保风潮袭来: 小型造纸、包装等企业被扫荡

发布日期: 2016-11-03 来源: 包装地带

⊕ ⊖

Don't expect the environment "storm" to end: 247 factories investigated in Guangdong



市环保局兵分五路, 督促造纸企业拆除淘汰机型

环保限产带来纸价波动 造纸行业集中度将大幅提升

来源:浏阳网 分享到: 🖸 微信 🛨 更多 无极 • 2017-02-04 11:36:50 来源:前瞻产业研究院 🔘 ◎ 422 📗 0

Paper sector being hit...



"Virtually impossible for small papermaking enterprises to obtain pollutant discharge permits"

WATER TEN | 水十条

- **249** co's have upgraded to meet "clean production upgrade" 家工作企业完成清洁化改造"
- 119 of which installed advanced reuse facilities 其中119家加装先进再用水设施

INDUSTRY CONSOLIDATION | 行业集中

• 2013: **7,158**

• 2017: **6,636** (-522)

Textiles also being hit...

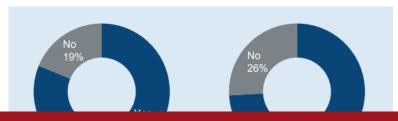




85 CHINA TEXILE MANUFACTURERS 纺织品制造商

Manufacturers on the pressure from regulations...



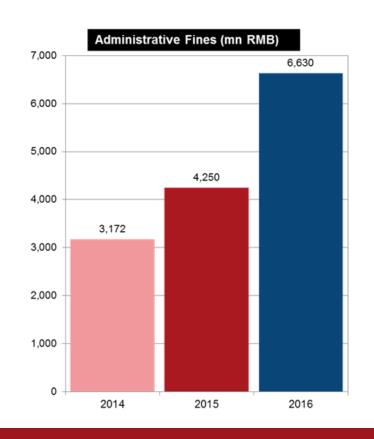


33%\$\$ SAY OPERATING COSTS INCREASE BY >20% 运营成本上升>20%

Impact on business 对生意的影响

Enforcement is real ...





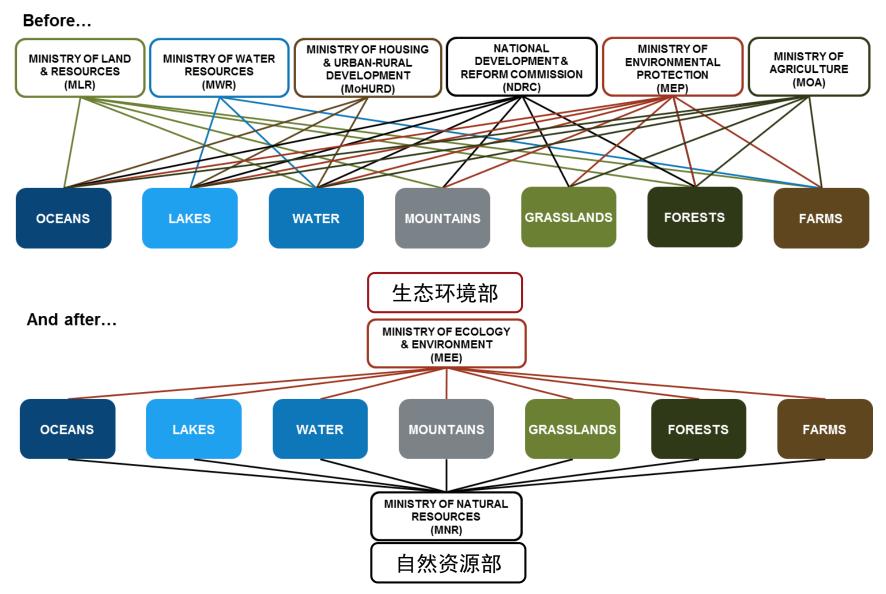
2018 WATCH OUT FOR:

- Water Ten Law 水污染防治法
- River Chiefs河长制度
- Water Tax Expansion 水资源税改革试点
- Ministerial Reform 国家机构改革
- Water trading rights expansion
 推进水排污权有偿使用和交易试点
- Environmental Risk Assessment
 环境风险分析

Pollution crackdown not simply empty talk 防治污染不只是纸上谈兵

Government reform for a Beautiful China





The future









73% willing to pay more 消费者愿意支付更多

Different water risks at-a-glance



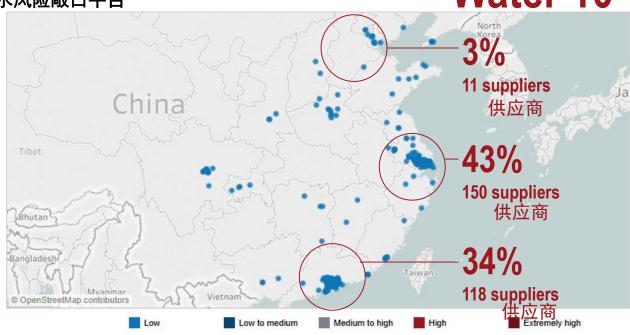


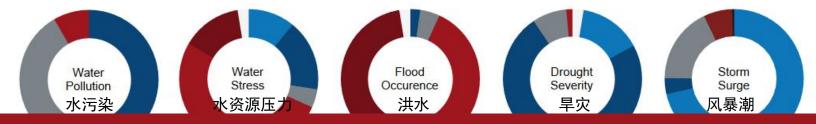
WATER RISK EXPOSURE DASHBOARD 水风险敞口平台

Water 10



350 Suppliers in China

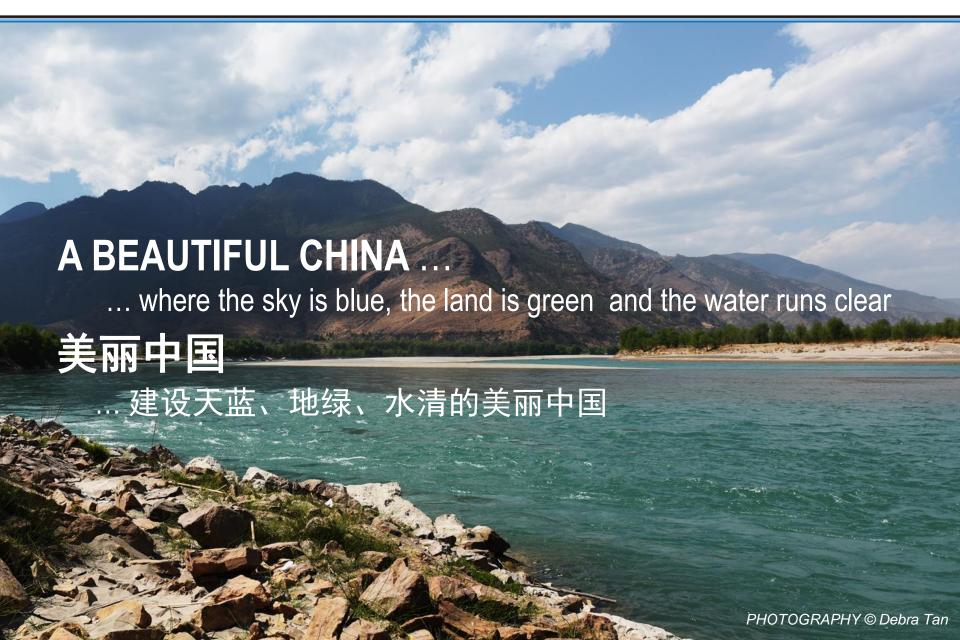




Asset, raw material & supply chain exposure = need to waterproof portfolios

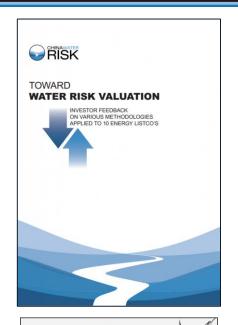
What President Xi wants ...

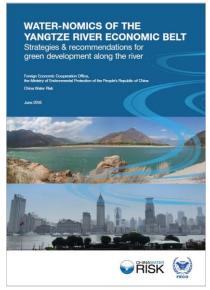




Decisions today for water tomorrow













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