

**Monkey! Be good & disrupt:** Here we go, swinging into the year of the Monkey. Brace yourself: in a year of wild swings, check out our top 5 trends in water in 2016 for it is better to be in a position to disrupt than be disrupted. No more monkey business and harsher punishments mean that businesses in China will look for new ways to be green and prosper. Also a resource shuffle is imminent - can China find more food in a changing climate? Or should they 'go out'? Some already have; China is the world's #1 dam builder. So how do Chinese hydro companies fare? International Rivers expand while the Alliance for Water Stewardship introduces the first ever international water stewardship standard. Monkey heralds the start of China's 13FYP and in this march towards a "well-off society", 5 key words from the 2016 No. 1 Document are 'innovation', 'harmony', 'green', 'open' and 'share'. See why we think China's push for renewables is bigger than you think but is this aggressive surge enough to address issues at the heart of China's climate-energy nexus? But beware ... big is not always better and it's not just tech innovations that can disrupt; policy decisions are also disruptive. So in the year of the Monkey, avoid monkey-see, monkey-do: think disruptive but think comprehensive; be green and prosper. Happy Lunar New Year!



## EDITORIAL

**Monkey! Be good & disrupt:** Here we go, swinging into the year of the Monkey. If you thought 2015 was "happening" for water and the environment, brace yourself, Monkey by nature brings with it more energy, innovations and disruptions than the surefooted goat. In a year of wild swings, check out our top 5 trends in water in 2016 for it is better to be in a position to disrupt than be disrupted.

China's prime minister, says "*employment, income-levels and the environment are all high on our list of priorities*". The No. 1 Document released last week echoed this sentiment focusing on new development concepts and modern agriculture in beating a path to a "well-off society". Holding the Three Red Lines on water was also specifically spelled out and the need for endangered wildlife conservation was mentioned for the first time.

To show it's serious, China will "*kill a chicken to warn the monkey*". No more monkey business and harsher punishments mean that businesses in China will look for new ways to be green and prosper. We delve into this and also take a closer look at the imminent resource shuffle as China negotiates the winding road towards food security. With China's farmlands, twice the size of France threatened by urbanisation and pollution, can China find more food in a changing climate?

In search of more resources, Chinese companies are also being encouraged to 'go out'. Some already have; China is the world's #1 dam builder. So how do Chinese hydro companies fare? International Rivers' Stephanie Jensen-Cormier shares their study which benchmarked the overseas performance of seven Chinese dam building companies.

The resource rush is not specific to China and so it is best to have an international approach to water stewardship. Alliance for Water Stewardship's Zhenzhen Xu, Ma Xi and Michael Spencer introduce the alliance's first ever international standard and share lessons learned from Ecolab's China pilot which pioneered its use in the chemical sector.

Monkey heralds the start of China's 13th Five Year Plan and in this march towards a "well-off society", 5 key words for the year are 'innovation', 'harmony', 'green', 'open' and 'share'. In this regard, we think China's push for renewables could be bigger than you think but is this aggressive surge enough to address issues at the heart of China's climate-energy nexus? Read on...

But beware ... big is not always better and it's not just tech innovations that can disrupt; policy decisions are also disruptive across multiple industries. So in the year of the Monkey, avoid monkey-see, monkey-do: think disruptive but think comprehensive; be green and prosper.

Happy Lunar New Year!



### China Water Risk's 5 Trends

Prioritizing environment alongside employment signals a reshuffle. The Year of the Monkey brings with it wild swings, so check out our top 5 trends in water for 2016 for it is better to be in a position to disrupt than be disrupted

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### Be Green And Prosper

With increased fines, penalties and jail sentences, CWR's McGregor & Liu expand on China's push towards 'all things green'. Also hear from top business leaders in China on why it pays to be green to prosper

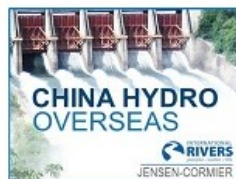
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### More Food In A Changing Climate

China's 120 million hectares of farmland, equivalent to 2x France, is threatened by urbanisation & rampant pollution. CWR's Hu on China's challenging path to food security in a changing climate

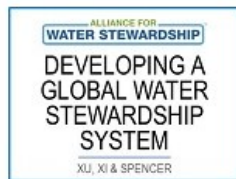
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### Comparing Chinese Hydro Overseas

Who's better at building dams overseas? Datang, Huaneng or Three Gorges? International Rivers' Jensen-Cormier shares key results from their benchmarking study on 7 Chinese hydro co's

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### Developing A Global Water Stewardship System

Alliance for Water Stewardship's Xu, Xi & Spencer introduce the first ever global water stewardship standard and share lessons from Ecolab's pilot at their Taicang China chemical plant

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### Renewable Energy: Bigger Than You Think

Renewables surge as coal wanes but the bulk of the renewable energy boom is yet to come. CWR's Thieriot on why this aggressive surge won't be enough to solve the climate-energy nexus

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## TAPPING IN

### Government

- State Council: [2016 No. 1 Doc](#): New Development Concepts, Modern Agriculture & Well-off Society
- NDRC: [Guideline on Green Bond Offering](#): focuses on 12 types of projects incl. green urbanization, energy efficiency, renewables, circular economy, water saving & low carbon
- NDRC & MWR: [Guiding Opinions on Preliminary Work of Water Diversion Project](#): follow "water saving first and water diversion next"
- NDRC, MEP & MIIT: Cleaner Production Indicator Systems for [Batteries, Nickel & Cobalt & Antimony](#); incl. water use, pollutants discharge & recycling
- NDRC & MWR: [Management of Water Saving Infrastructure Projects in Large and Medium Irrigated Areas](#): plans to upgrade these to be set centrally
- MEP: [Management Measures on Environmental Impact Post-assessment of Construction Projects](#): required for especially polluting projects; in force since 1 Jan 2016
- MEP: [Technical Guidelines for EIA of Groundwater Environment](#): revised methodology; in force since 7 Jan 2016
- MEP: [Environmental Prerequisites for Modern Coal-to-Chemicals Projects](#): control new projects in Beijing-Tianjin-Hebei, YRD, PRD & water scarce regions
- MOHURD: [Guidelines on Green Data Center Evaluation](#): includes water savings & reuse

### Reports

- ARUP: [inDepth Water Yearbook](#)
- ARUP: [inDepth Water Perspectives](#): global water experts on the Future of Water - read [CWR's contribution](#)
- WEF: [Global Risks Report 2016](#)
- China Europe Water Platform: [Water Security and Water Trading Options](#)

### Interest

- State Council White Paper: Nuclear emergency response 'inadequate'; safety issues halt construction of 2 Guangdong reactors
- AIIB officially launched: expected to lend USD10-15bn p.a. in first 5/6 yrs for renewables, water & transport etc...
- Hebei: Plans to shut all 'seriously' polluting projects in 2016
- Xinjiang: 40% of renewable energy plants are not on grid
- HSBC: Green bond market will grow to USD158 bn in 2016

### Hot on Weibo:

- Water & air filters are hot gifts for the Spring Festival

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