

**Taking Stock:** As we write this, two typhoons are heading for HK and there's been others hitting South-eastern China. It seems fitting with these close-to-home weather events, that we are in Q4 2016 and that the Paris Agreement will come into effect shortly that we take stock. Whilst the Agreement has been hailed as one the greatest achievements, there is no time to relish in this as global crop staples and water security is still at risk as MIT's Dworzan shares. Meanwhile, it's been more than 18 months since China's amended Environmental Law came into effect. Have things changed? We sat down with Liu of China University of Political Science & Law to find out. Now more than ever, cities and their waterscapes face challenges. In Arcadis' inaugural water index 9/12 Asian cities are ranked in the bottom half. Their Batten expands. With time and resources at such premiums, more needs to be done with less. Recycling water is one way to achieve this. We share 8 things you should know about recycling water in China. Plus, we explore unconventional water sources that can reduce the impact of China's power sector. Diets have great impact too. We take a look if China's "milky-ways" can continue. The overall stock take is, as usual, more needs to be done. But as we can see from the above problems are being called out, action is happening and solutions exist. Maybe we will know more on our "stock" after COP 22 next month.



## EDITORIAL

**Taking Stock:** As we write this, two typhoons are heading for Hong Kong and there's been others hitting South-eastern China along with severe flooding. It seems fitting with these close-to-home weather events, that we are in the last quarter of 2016 and that the Paris Agreement will come into effect in the first week of November that we reflect and take stock of where we are.

Whilst the Paris Agreement has been hailed as one the greatest achievements, there is no time to relish in this as global crop staples and water security are still at risk even if all commitments are carried out. Massachusetts Institute of Technology's Mark Dworzan shares more findings & solutions from their report.

Meanwhile, it has been more than 18 months since China's amended Environmental Protection Law came into effect. Have things changed? We sat down with Liu Feiqin of China University of Political Science & Law, to get her thoughts on its impacts, enforcement and more.

Now more than ever, cities and their waterscapes face challenges. In Arcadis' inaugural water index of 50 cities 9 out of 12 Asian cities are ranked in the bottom half. Not good news. Their John Batten expands. With time and resources at such premiums, more needs to be done with less. Recycling water is one way to achieve this but how much do you know about it? We share 8 things you should know about recycling water in China. Plus, we explore unconventional water sources that can reduce the power sector's impact, China's largest industrial water user.

Our diets have great impact too, especially livestock related components. We take a look if China's "milky-ways" can continue given its thirst and also at how much leading dairy companies are disclosing.

The overall stock take is, as usual, more needs to be done. But as we can see from the above problems are being called out, action is happening and solutions exist. Maybe we will know more on our "stock" after COP 22 next month.



## Paris Agreement: Food &amp; Water Still At Risk

Even if all pledges made at COP21 are carried out, global staple crops face more failures & 1.5bn more people face water stress. MIT's Dworzan shares more findings & solutions from their report

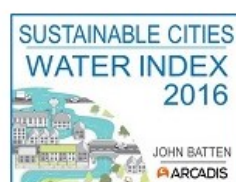
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## Environmental Law: 1 Year On

China's amended Environmental Law has been in effect more than 18 months now. Have things changed? What about fines? CWR sat down with Liu of China University of Political Science & Law, to find out

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## Sustainable Cities Water Index 2016: The Asian perspective

Now more than ever, cities & their waterscapes face challenges. In Arcadis' inaugural water index of 50 cities 9/12 Asian cities are ranked in the bottom half. Arcadis' Batten expands

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## 8 Things About Water Recycling

Recycling water could help with China's water challenges. Yet, only 10% of treated wastewater is recycled. Check out our 8 things to know about water recycling in China

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## Unconventional Water For Power Generation

Power is China's largest industrial water user. Unconventional water sources such as mine water & municipal wastewater can help with this. We explore these further

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## Can China's "Milky-ways" Continue?

China's been hungry for dairy over the last 16 years. We take a look if this can continue given its thirst and also at how much leading dairy companies are disclosing

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## TAPPING IN

## Government

- CPC & State Council: [Opinions on Reform of Environmental Monitoring Schemes & Mechanisms in Environmental Institutions below Provincial Level](#): improve independence of monitoring dept
- NDRC, MoST, MIIT, MLR & China Development Bank: [Opinions on Supporting Transformation & Upgrading of Old Industrial Cities & Resource-dependent Cities](#): linked with "Made in China 2025"
- NDRC: [Opinions on Promoting Coordinated Development Among Major Regions](#): improve limits of water environ carrying capacity
- NDRC & MEP: [Opinions on Nurturing Market Entities In Environ Management & Ecological Protection](#): RMB2.8 trn environ industry by 2020
- NDRC: [Piloting Use & Trading System of Energy Use Permit](#): Fujian, Henan, Sichuan & Zhejiang in 2017
- MoA: [Promoting Agricultural Waste Recycling Pilots](#): by 2020, 80% of pilot livestock farms to have waste treatment facilities; field film recycling >80%
- MEP: [2015 Annual Review Results of Water Pollution Prevention & Control Special Projects in Key River Basins](#): 75.4% of the 415 river sections above standard
- NEA: [Shale Gas Development Plan \(2016-2030\)](#): 80-100 bn cum production by 2030

## Reports

- Arcadis: [Sustainable Cities Water Index 2016](#)
- MIT Joint Program on the Science and Policy of Global Change: [Food, Water, Energy and Climate Outlook 2016](#)
- FAO: [Water Accounting & Auditing Guidelines: A Sourcebook](#)
- UN High-level Panel on Water: [Action Plan](#)

## Interest

- Paris Agreement will go into effect 4 Nov 2016
- China to build Economic Corridor with Mongolia & Russia; energy & mining focus
- China: RMB350 bn state enterprise restructuring fund launched for 'supply-side' reforms
- China: 2015 backwards & over-capacity production cut: 5.3 GW electricity, 101mt coal, 31mt iron & steel
- NDRC: closed or cut output of hundreds of coal & steel co's for violating environ & safety regulations
- Agricultural Development Bank of China: to loan RMB3 trn for modernizing agriculture by 2020
- Hebei: factories & households not to burn coal from Nov 2017
- Sichuan: to invest RMB60 bn to improve water quality of Min River (Yangtze tributary)
- Yunnan: pioneering new pollution mgmt method: establish special courts & make polluters fund environ protection projects

## Hot on Weibo:

- Significant damage in South-eastern China from floods & typhoons

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