

Raring to Reuse



Industrial water reuse is gaining ground, and yielding some pretty impactful results. For example, recent applications have proven successful in reusing water not only for landscape irrigation, but for lesser-known applications such as cooling towers and boiler feed systems.

There has been a lot of buzz around industrial reuse, especially on March 22 (World Water Day) at a water summit at the White House. Multiple solution providers in

attendance pledged to devote more effort and resources toward industrial reuse innovation. For example, Evoqua will invest \$50 million in research and development to further expand water reuse and reclamation efforts across both municipal and industrial applications. The company also pledged to double its capacity to treat water for reuse and reclamation by 2021. Pentair will establish two centers in the next three years to bring innovation to industrial water reuse in manufacturing and water stewardship to food and beverage processing.

Likewise, the WaterReuse Research Foundation has devoted special attention of late to furthering industrial reuse efforts, in the form of two research reports on the drivers and barriers to water reuse. This issue of iWWD includes an article on those projects from the association, on page 8.

CDM Smith is another company devoting content to industrial water reuse, in the form of a list of 10 questions that can be asked when choosing whether or not to incorporate reuse efforts into industrial facility operations. The questions, which are detailed in full on the company's website, are:

1. What water quality is needed for reuse?
2. What are the water flows?
3. What are the future water demands and sources available?
4. Can wastewater segregation be achieved?
5. Is flow equalization needed?
6. What is in the wastewater?
7. How much space is available?
8. What sludge disposal options are available?
9. Where will reject water be disposed?
10. What are the potential costs and savings?

I have a few questions of my own, to readers: What are some innovative industrial water reuse applications you have come across? What are some of the greatest barriers to industrial water reuse you've experienced? Sound off via email or W&WD's social media channels.

Industrial water reuse has countless sustainability and community benefits; however, it's important to be fully cognizant of the challenges and potential roadblocks before embarking on an industrial reuse journey.

Elisabeth Lisican | Editor-in-Chief | elisican@sgcmail.com

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3030 W. Salt Creek Lane, Suite 201, Arlington Heights, IL 60005-5025
847.391.1000 ■ F: 847.390.0408 ■ www.wwdmag.com/industrial

EDITORIAL STAFF

Editor-in-Chief	Elisabeth Lisican
Associate Editor	Kate Cline
Associate Editor	Amy McIntosh
Associate Editor	Sara Samovalov
Associate Editor	Bob Crossen
Designer	Dan Soltis

ADVERTISING & SALES

7150 E. Camelback, Suite 325
Scottsdale, AZ 85251
480.941.0510 ■ F: 480.423.1443

Integrated Media Consultant	Don Heidkamp dheidkamp@sgcmail.com 847.391.1047
Integrated Media Consultant	David Rairigh drairigh@sgcmail.com 480.941.0510 x25
Integrated Media Consultant	John Rogier jrogier@sgcmail.com 847.391.1053
Integrated Media Consultant	Jim Leahey jleahey@sgcmail.com 312.914.0536
Advertising Coordinator	Erica Rivera erivera@sgcmail.com 847.391.1049
Reprint Coordinator	Adrienne Miller amiller@sgcmail.com 847.391.1036
List Rental Contact	Geffrey Gardner geffrey.gardner@reachmarketing.com 845.201.5331

MANAGEMENT

Vice President/Group Publisher	Dennis Martyka dmartyka@sgcmail.com 480.941.0510 x19
Associate Publisher	Greg Tres gtres@sgcmail.com 480.951.0510 x15
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