

Technical Webinar Series

STRATEGIES AND TECHNOLOGIES

For Municipal and Industrial Water Recycling and Reuse

**Wednesday, February 9, 2022
12:30 pm EST**

Presentation Description

Background/Objectives

Water recycling and water reuse projects reclaim water, which would have been otherwise discharged to the environment, for beneficial reuse. Reclaimed water usage includes irrigation, various industrial manufacturing and utility make-up demands; domestic nonpotable application; groundwater replenishment for indirect potable reuse; and direct potable reuse. Water is a valuable commodity, and current treatment technologies allow cost-effective reuse options for industrial and municipal concerns in areas of the country and world where fresh water sources are severely limited.

Approach/Activities

This presentation will focus on water reuse technologies and trends. Technological advances reviewed include advanced oxidation process and membrane processes (i.e., membrane bioreactor, micro and ultrafiltration, and reverse osmosis). Treatment process descriptions and first-hand case studies for representative municipal and industrial projects in the United States, Europe, Asia, and the Middle East will be discussed.

Results/Lessons Learned

There are a variety of available effective technologies for water reuse; however, each technology has certain advantages and disadvantages that should be taken into account when selecting the appropriate technological train for each water reuse/recycling application. Water reuse/recycling can provide alternatives to existing fresh water supplies and enhance water security, sustainability, and resilience.

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About the Presenter



LES CORDONE, PE

Les is Vice President and Manager of Parsons' Industrial Water/Wastewater Treatment Practice. He has been active in process development, detailed design, construction, and operation of industrial wastewater, groundwater, and leachate treatment systems around the globe for the past 35 years.



AJISH NAMBIAR, PE, ENV SP, LEED AP

Ajish has more than 15 years of experience working on groundwater treatment, industrial and municipal wastewater treatment, and water reuse projects. Ajish is a principal engineer with Parsons, providing project delivery of capital projects from planning and concept development, through engineering and detailed design, construction, commissioning, and startup.