

# Joseph Hughes, P.E.

Project Manager



Many municipalities use legacy wastewater treatment systems that are over three decades old. With new biosolids processes emerging, forward thinking plants can improve their solids management, reduce biosolids volume, generate on-site electricity and produce Class A biosolids. These innovative treatment advancements offer opportunities to improve efficiencies while reducing costs and offer an eco-friendly solution to sludge handling.

Turn to Joseph Hughes, CNP Project Manager, on how to work through the short term challenges of integrating biosolids innovation to meet the long term goals of a treatment plant.

## Biography

Hughes joined the CNP team in 2014 and has over 30 years of experience working with biosolids equipment and processes. He is the current CNP Project Manager working directly with the Kenosha treatment plant, consulting engineers and the contractor to integrate and optimize multiple technologies to meet a range of performance requirements. The Kenosha Water Utility (KWU) has the first U.S. installation of PONDUS (TCHP). KWU received a We Energies renewable energy grant due to the biogas production increase from the PONDUS process.

Hughes earned his Bachelor of Science in Environmental Engineering from Pennsylvania State University.

## Providing Thought Leadership On:

- Installing innovative biosolids equipment while upgrading the existing equipment
- Working with wastewater treatment plants from design to equipment optimization and meet the performance requirements of the plant
- How to be green and increase biogas production with PONDUS, a Thermo-Chemical Hydrolysis Process (TCHP)

## Awards

- 2019 Frost & Sullivan Product Leadership Award for the North American Sludge Treatment (PONDUS)
- 2019 CIOReview for the 20 Most Promising Metals and Mining Technology Solution Providers
- 2019 Salvation Army Other's Award Reipient for "Resources Supporting Others"
- 2018-19 CalPrex Tailored Collaborative Research (TCR) with The Water Research Foundation (WRF)
- 2018 Utility of the Future Today Recognition Program for the Kenosha WWTP Optimization Project (PONDUS)
- 2017 ACEC Grand Award Winner for the Kenosha WWTP Optimization Project (PONDUS)
- 2016 U.S. Environmental Protection Agency (EPA) Nutrient Recycling Challenge Award (AirPrex)
- 2015 Green Tec Award (AirPrex)

## Affiliations

- Water Environment Federation (WEF)
- The Water Research Foundation (WRF)
- Leaders Innovation Forum for Technology (LIFT)
- Mid-Atlantic Biosolids Association (MABA)
- Kenosha Area Business Alliance (KABA)
- Kenosha Area Chamber of Commerce
- The Water Council

## Corporate

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