



Exploring Co-digestion and Combined Heat and Power (CHP) Options for Wastewater Systems – A Field Day

Hosted by the Kishwaukee Water Reclamation District

April 7, 2022 from 9am – 12:30pm

Wastewater treatment plants in Illinois have a variety of opportunities to implement Co-digestion of food waste and other organic waste and use the produced biogas in Combined Heat and Power (CHP) units at their facilities. Despite the economic benefits, many plants pass on CHP or Co-digestion opportunities. This field day will highlight the considerations and challenges that the Kishwaukee Water Reclamation District has overcome to operate a successful Co-digestion CHP system. We'll provide an overview of the key components of net zero energy wastewater facilities, the key components of CHP and anaerobic digestion systems at wastewater plants and highlight funding and technical assistance to investigate opportunities at your plants. We will also tour the Kishwaukee Water Reclamation District and uncover their secrets to success.

Workshop Agenda:

- **Welcome and Overview of the Event**
- **Energy Neutrality at Wastewater Treatment Systems**
 - Marcello Pibiri, Senior Research Engineer, Technical Education and Analysis for Community Hauling and Anaerobic Digesters (TEACH AD) Program at UIC-ERC
- **Overview of the Kishwaukee Water Reclamation District**
 - Mike Holland, District Engineer and Assistant District Manager at the Kishwaukee Water Reclamation District
- **Programs, Incentives and Support for CHP or Co-Digestion Projects at your Plant**
 - Marcello Pibiri, Senior Research Engineer, Technical Education and Analysis for Community Hauling and Anaerobic Digesters (TEACH AD) Program at UIC-ERC
 - Graeme Miller, Assistant Director of the US DOE Midwest CHP Technical
 - Shawn Maurer, Senior Energy Engineer at the Smart Energy Design Assistance Center (SEDAC)
- **Tour of the Kishwaukee Water Reclamation District**
 - Mike Holland, District Engineer and Assistant District Manager at the Kishwaukee Water Reclamation District
- **Event Closing – Thank You!**

Public Water Infrastructure Educational Series Spring 2022

Register at sedac.org/water
CEU & PDH certificates available

Sponsored by the Illinois EPA Office of Energy and the
TEACH AD Program at UIC-ERC



ILLINOIS SUSTAINABLE
TECHNOLOGY CENTER
PRAIRIE RESEARCH INSTITUTE

“Exploring Co-Digestion and Combined Heat
and Power (CHP) Options for Wastewater
Systems”

Wastewater Field Day at the Kishwaukee Water
Reclamation District in DeKalb, IL

April 7, 2022

9am - 12:30pm

Speakers include: Kishwaukee WRD, SEDAC, TEACH AD Program
at UIC - ERC, US DOE Midwest CHP Technical Assistance Program

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Illinois EPA: <http://bit.ly/WWTP-EE>

