

## NEW WATER R2E2: RESOURCE RECOVERY

**STATE PROGRAM:** Wisconsin Department of Natural Resources

**ASSISTANCE RECIPIENT:** Green Bay

**ASSISTANCE AMOUNT:** \$16,337,158



### PROJECT DESCRIPTION

The Green Bay Metropolitan Sewerage District, known as NEW Water, is using CWSRF financing to implement a project known as Resource Recovery Electrical Energy (R2E2). The R2E2 project values waste as a resource to recover rather than something worthless to dispose. The project will use resource recovery methods to save money, replace its solids handling facility, meet stricter environmental regulations, increase capacity, and replace aging infrastructure. The workhorses of the project are two anaerobic digesters that will break down biodegradable material and capture the methane gas produced to generate electricity, providing approximately half the electricity the utility needs each year and saving \$2 million annually. Greenhouse gas emissions are expected to be reduced by about 22,000 metric tons per year, the equivalent to removing about 15,000 vehicles from the road. Another value-added byproduct of the process will be rich fertilizer, which will be sold commercially as another source of revenue. NEW Water will also be able to accept waste streams that they never could before, including food processing waste, diverting more material from landfills and revolutionizing the role of the utility as a multi-faceted environmental service provider.

To read more about this case study, please visit [https://www.epa.gov/sites/default/files/2017-11/documents/pisces\\_compendium\\_final2.pdf](https://www.epa.gov/sites/default/files/2017-11/documents/pisces_compendium_final2.pdf).