

R2E2 Open Houses: November 10 and 11

Sneak Peek at a New Chapter in Recovery of Our Community's Resources

NEW Water will hold two Open Houses for the public about its new solids handling facility, which has launched construction.

R2E2 Open Houses – free of charge, open to the public:

- **Tuesday, Nov. 10, 5:00 - 7:00 p.m.**
Allouez Village Hall, 1900 Libal St., Green Bay
- **Wednesday, Nov. 11, 9:00 – 11:00 a.m.**
NEW Water, 2231 North Quincy Street, Green Bay

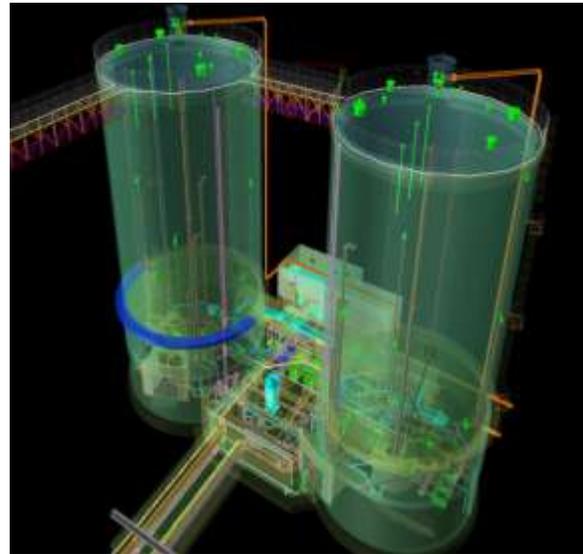
NEW Water's Resource Recovery and Electrical Energy generation system known as the R2E2 Project will replace the existing solids handling facility. A new facility is needed to: meet stricter environmental regulations, address the needs for increased capacity, and to replace aging infrastructure. The project harnesses resource recovery of both nutrients and gas for cost savings and environmental benefit.

"R2E2 represents an exciting new chapter for NEW Water, as we move toward a more sustainable approach to valuing our resources," says Tom Sigmund, Executive Director of NEW Water.

The total capital cost of the R2E2 Project is approximately \$169 million. Construction contracts were awarded to Northeast Wisconsin firms, and the project will provide 100s of construction and manufacturing jobs to the community and local economy. Construction launched in August 2015, with completion expected in 2018.

To determine the best solids handling solution for the community, NEW Water took a collaborative approach. A Stakeholder Advisory Committee comprised of external stakeholders and internal staff analyzed solids handling processes across the U.S., and the globe. The committee's criteria were: technology that was feasible, reliable, safe, stakeholder supported, environmentally friendly, and cost-effective. The final result: R2E2.

The design includes two anaerobic digesters that will break down biodegradable material in the absence of oxygen, and reduce the volume of material to be processed. Methane gas will be captured and used to produce electricity. In the first year of operation, NEW Water's energy costs are estimated to be reduced by 50%, resulting in an estimated savings of more than \$2 million. 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. R2E2 also features a nutrient recovery process that will create a fertilizer for commercial sale, representing about \$400,000 of revenue. Further, R2E2 will allow NEW Water to accept different types of wastes it currently cannot, such as dairy, sugar, and food processing waste, which would otherwise be spread onto nearby fields or land-filled. These wastes can increase digester energy production, and provide a consistent and environmentally friendly disposal outlet.



3D rendering of R2E2, NEW Water's new solids handling facility, which is under construction