



New Jersey looks to reduce food waste by 50 percent by 2030

If 50 percent of the nation's food waste was converted to energy in waste-to-energy facilities, it could power up to 2.5 million homes a year, according to the EPA.

Waste Management of New Jersey (WMNJ), in a public/private partnership with the Rahway Valley Sewerage Authority (RVSA), is proud to operate the state's first full-scale food waste recycling and co-digestion project, a cost-effective alternative for turning food waste into renewable energy.

The CORE_® Process

WM currently operates the largest food waste to municipal co-digestion projects in North America. The CORE_® process is a purpose-built, centralized, source-separated food waste processing and blending facility that takes a combination of pre- and post-consumer food wastes and produces a high-quality product designed for co-digestion in municipal anaerobic digesters. Through this, WM provides an unparalleled experience in food waste preprocessing and municipal co-digestion. The company's extensive full-scale operating experience has resulted in solutions like the RVSA renewable energy project, which addresses the critical success factors for a public/private partnership as it relates to operating a food waste co-digestion program.

How CORE_® Empowers New Jersey To Reduce Food Waste

The WM CORE_® system for the RVSA project is located in northern New Jersey at its Flora St. Transfer Station. The system is permitted to receive and process 500 tons of food waste per day and 60,000 gallons of liquid organic material per day. WM's CORE_® process can remove nondegradable contaminants from source-separated food waste streams at an exceptionally high efficiency. This material is then blended into a consistent, high-quality EBS_® bioslurry product, a high-energy fuel source. This separation process is critical to safeguarding that inert and floatable materials are substantially free.

The ability to create and manage a consistent EBS_® is critical to the successful introduction into and processing by a waste water treatment plant's anaerobic digesters. Typically, the performance of anaerobic digesters is negatively impacted by inconsistencies in the organic strength of the material being digested. The WM CORE_® processing system overcomes this issue. Since EBS_® must have solids content that allows the slurry to be pumped, makeup liquids can be added to manage the solids content of the slurry. This allows WM to accept high organic strength liquids and use them as part of the blending process. The EBS_® product from the New Jersey CORE_® is delivered to the RVSA waste water treatment plant where its co-digestion increases the production of biogas, most importantly methane, which is collected and used as a fuel in RVSA's co-generators.

LOCATION

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HOURS OF OPERATION

Monday – Saturday: 24 hours
Trucks entering/exiting:
7 AM to 10 PM

