

Newtown Creek Renewable Natural Gas Project

Our commitment to sustainable energy solutions

We are seeking to establish National Grid as a facilitator for the connection of renewable natural gas (RNG) to the natural gas distribution network. Our goals include developing innovative business processes that convert surplus biogas into RNG for beneficial uses and highlighting the opportunities of this expanding energy solution.

We have developed a project to prove the concept of converting biogas to RNG at the Newtown Creek Wastewater Resource Recovery Facility (WRRF), in the Greenpoint area of Brooklyn, NY.

Newtown Creek project highlights

In partnership with the New York City Department of Environmental Protection (DEP), we are working together to convert surplus biogas generated from the largest WRRF in New York City into RNG for beneficial uses.

- This is one of the first projects in the United States that directly injects RNG into the local natural gas distribution system.
- The Newtown Creek WRRF currently flares surplus biogas that is not used as fuel for the facility's boilers. Now that the biogas conditioning system is operational, excess biogas will be utilized to produce renewable energy, reducing on-site flaring.
- We will own, operate, and maintain the biogas conditioning system that cleans up the biogas to meet pipeline-quality standards and injects the renewable gas into our distribution system in Brooklyn, for direct consumption by our customers.
- In a separate partnership, DEP is working with Waste Management, Inc., which delivers processed food waste to Newtown Creek. The waste is added to wastewater sludge to increase biogas production. This increases the amount of RNG and reduces the amount of solid food waste that otherwise would be landfilled.

- Together these projects have the potential to produce enough renewable energy to heat over 5,200 New York City homes and reduce annual CO₂ emissions by more than 90,000 metric tons annually—equivalent to removing nearly 19,000 cars from the road.

What makes this project compelling?

- Lowers greenhouse gas (GHG) emissions
- Uses a current waste stream to produce renewable energy
- Leverages the existing natural gas network to deliver a renewable fuel
- Converts other organic feedstocks, such as food waste, into renewable energy



The Newtown Creek project is operational and will help meet New York City's environmental goals while at the same time fostering discussion in the industry about how energy providers, policy makers and other stakeholders should examine the opportunity that RNG offers to meet our country's growing energy demands, while ensuring sustainability for future generations.