



**CASE STUDY**

# Middlesex County Renewable Natural Gas Facility

## Converting Landfill Gas into Utility Grade Natural Gas for the RIN market

Project is fully owned and directly implemented by the Wastewater Authority with all RIN Revenue proceeds captured by the authority

A new Renewable Natural Gas (RNG) facility will lower the county's air emissions by processing nearly 5,000 SCFM of raw landfill gas and converting it to a pipeline-quality RNG product capable of being accepted by PSE&G and sold in the profitable renewable RIN market. Concord Engineering is the Design Engineer of Record and Program Manager for the project, working to meet a fast turnaround three-year timeline from design to construction.

### THE CONCORD/CEM DIFFERENCE

- Design of systems that qualify for the Renewable Natural Gas Investment Tax Credit established by the Inflation Reduction Act.
- Together with our partner CEM Engineering, provide expert planning to ensure the highest quality engineering solutions, the most economic benefit, and the top level of sustainability for the client's renewable energy assets.

### THE CHALLENGE

- Compliance with Local Public Contract Laws for procurement of equipment and installation.
- Manage long lead equipment purchasing to meet accelerated project timeframes.
- Design new electrical substation to provide large power requirements.

### CONCORD ENGINEERING SOLUTION

- Concord and CEM Engineering worked together with the county and R3M to develop the project and provide funding.
- Include gas compression, temperature swing adsorption, pressure swing adsorption, and thermal oxidizers to produce the final product.
- Meets the local gas utility requirements for RNG to be injected into the pipeline grid and sold on the renewable (RIN) market.
- Expert gas process engineering to support best in class technology
- Facility will process nearly 5,000 SCFM of raw landfill gas to convert it to a pipeline-quality RNG product.

### + LOCATION

Middlesex County, New Jersey

### + SERVICES

Design Engineering  
Program Manager  
Energy Services

### + PARTNERS

CEM Engineering  
R3M Engineering  
Sysadvance

### + TAGS

Energy Infrastructure  
Renewable Natural Gas  
Renewable Energy  
Wastewater Treatment  
Landfill Gas  
Emissions Reduction  
RIN  
RNG

### GET IN TOUCH

[concord-engineering.com](http://concord-engineering.com)

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