



Project Highlight

Lee County RNG Plant, IL

AMERESCO 

RNG Facility Enhances County Grid Resilience While Reducing Emissions

Technology Type:

Landfill Gas-to-Energy (LFGTE) | Renewable Natural Gas (RNG)

Facility Size

11.7 MWe

Capable of Processing Raw Landfill Gas

4,500 standard cubic feet per minute

Annual CO₂ Emissions Reduction

~61,000 metric tons

Annual Renewable Energy Generation

1.2M dekatherms



Summary

In partnership with Republic Services, Ameresco launched a new RNG facility at the Lee County Landfill in Dixon, Illinois. The facility captures naturally occurring landfill gas and processes it into pipeline-quality RNG, transforming flared gas into a valuable renewable energy resource. The project enhances grid resilience by providing a local baseload energy supply and contributes to environmental sustainability by reducing emissions through the displacement of fossil fuels.



Solution

This new renewable natural gas facility located in Dixon, IL represents the 15th collaboration between Republic Services and Ameresco. The facility converts landfill gas into clean, pipeline-quality energy, reducing emissions and enhancing grid resilience through a sustainable baseload supply. Specific solutions include:

- 11.7 MWe facility owned by Ameresco
- Capacity to process 4,500 scfm of raw landfill gas annually



The Lee County RNG plant exemplifies our commitment to investing in sustainability innovation that provides impactful decarbonization solutions to the communities we serve. Our long-standing partnership with Ameresco continues to result in projects that are helping to create a more sustainable world.

Tim Oudman,

Senior Vice President of Sustainability Innovation
Republic Services



Benefits

The renewable natural gas facility boosts progress towards both Illinois' renewable energy goals and Republic Services' sustainability commitments. The facility makes a significant environmental impact, with its carbon reduction equivalent to eliminating emissions from over 70,000,000 gallons of gasoline consumption or 1,500,000 barrels of oil. Other specific benefits of the project include:

- Reducing over 61,000 metric tons of CO₂ annually
- Supporting Illinois' commitment to reaching 40% renewable energy by 2030
- Aligning with Republic Services' pledge to beneficially reuse over 50% of landfill biogas by 2030



Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

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