

Biogas Capture at U.S. Landfills: Fast Facts



Overview

Landfill gas remains the largest source of captured biogas in the United States and continues to drive growth in renewable natural gas (RNG). According to the American Biogas Council's latest data, landfill gas projects now produce nearly two-thirds of the nation's RNG while creating jobs, expanding domestic energy production, and reducing methane emissions.

At a Glance

- **600** operating landfill gas capture systems across the U.S.
- **64%** of all U.S. renewable natural gas (RNG) comes from landfill gas.
- **75%** of all captured biogas in the U.S. comes from landfill gas facilities.
- **20** new landfill gas projects entered service in 2025.
- **100%** of new landfill gas projects completed in 2025 produce RNG.
- **39.9 Bcf** (billion cubic feet) of new biogas capture capacity added in 2025.
- Nearly **\$14.9 billion** invested in landfill gas infrastructure nationwide.
- Nearly **\$1 billion** invested in new landfill gas projects entering service during 2025.

Key Takeaways

Landfill Gas Is the Backbone of America's Biogas Industry

Although landfill gas facilities represent fewer than one-quarter of the nation's approximately 2,583 operating biogas systems, they capture roughly **three-quarters of all biogas recovered for energy** because of their larger production volumes.

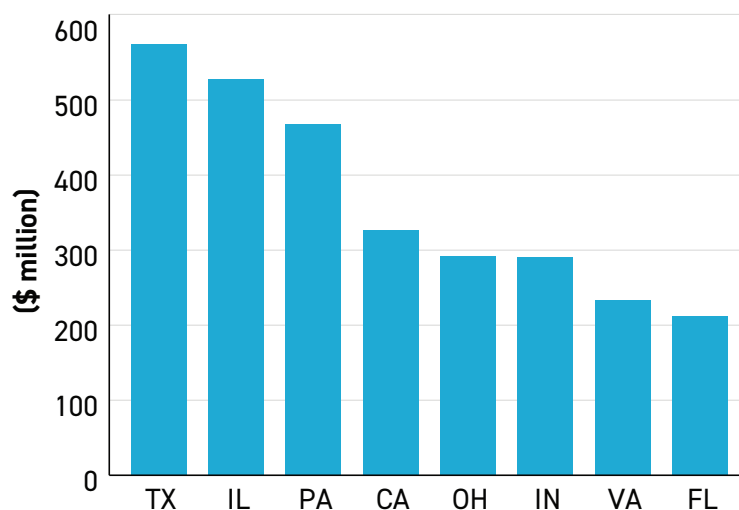
Investment Continues to Grow

Total investment in U.S. landfill gas infrastructure has reached **nearly \$14.9 billion**, including almost **\$1 billion invested in projects entering service during 2025**.

Significant Growth Opportunity Remains

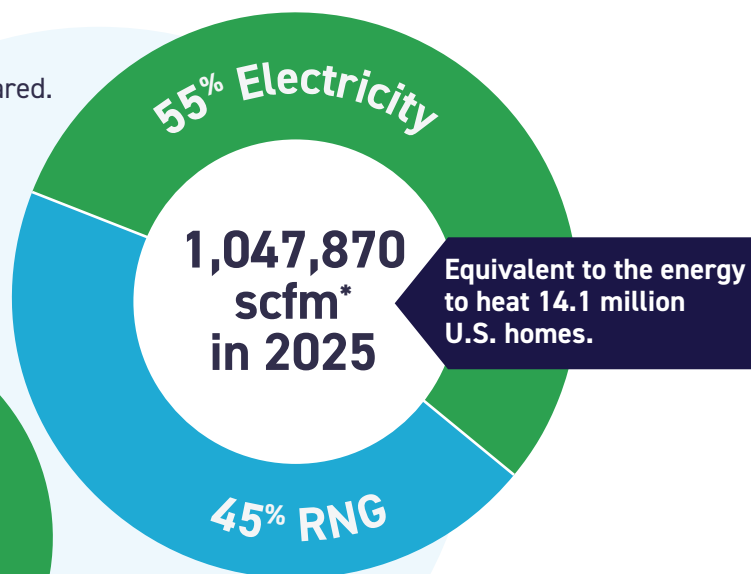
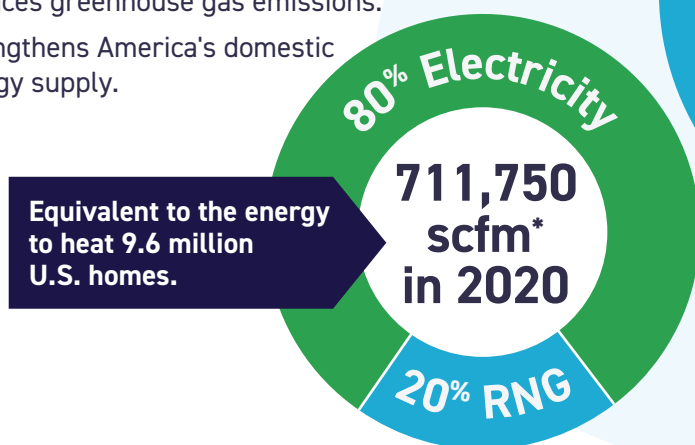
The U.S. Environmental Protection Agency identifies approximately **705 additional landfills** that remain suitable for landfill gas development. These sites could capture an estimated **455 billion cubic feet of additional biogas annually**, representing one of the nation's largest remaining opportunities to expand domestic renewable energy production while reducing methane emissions.

Investment in Landfill Biogas Capture Facilities Opening 2020-2025 by Leading States



Why Landfill Gas Matters

- Captures methane that would otherwise be released or flared.
- Produces renewable natural gas using existing pipeline infrastructure.
- Generates renewable electricity and thermal energy.
- Creates local jobs and economic investment.
- Reduces greenhouse gas emissions.
- Strengthens America's domestic energy supply.



Biogas Capture Capacity at U.S. Landfill Gas Facilities 2020 & 2025

*Standard Cubic Feet per Minute

Key Industry Statistics

Renewable Energy Production

- **559+ billion cubic feet (Bcf)** of landfill gas captured annually.
- **143.7 million MMBtu** of renewable natural gas produced each year.
- Enough energy generated to meet the annual needs of nearly **3.9 million U.S. households**.
- Since the end of 2020:
 - **93** new landfill gas projects have come online.
 - An **18.4%** increase in operating landfill gas facilities.
 - All but **nine** of those new projects produce renewable natural gas.

Significant Opportunity Ahead

- **705** additional landfills remain suitable for landfill gas development.
- These sites could capture an additional **455 billion cubic feet** of biogas annually.

Expanding development at these locations represents one of the nation's largest opportunities to increase renewable energy production while reducing methane emissions.

Landfill Gas by the Numbers

Metric	Value
Operating landfill gas facilities	600
Share of U.S. RNG production	64%
Annual landfill gas captured	559+ Bcf
Annual RNG production	143.7 million MMBtu
New projects in 2025	20
New capture capacity (2025)	39.9 Bcf
Total industry investment	\$14.9 billion
Potential future landfill projects	705
Additional biogas potential	455 Bcf annually