Biogas State Profile: New York

**Biogas Potential**

New York ranks #7 among U.S. states for methane production potential from biogas sources.¹

Currently New York has 216 operational biogas systems. We see the potential for more than 308 new projects to be developed based on the estimated amount of available organic material.

Constructing this many projects would generate $924 million in capital investment, and create 7,700 short-term construction jobs, 616 long-term jobs, and numerous industry-supporting jobs.

If fully realized, these biogas systems could produce enough electricity to power 64,629 homes (1.2 billion kWh) or enough renewable natural gas to fuel 174,202 vehicles.

They would also collectively reduce greenhouse gas emissions by the equivalent of 28.6 trillion tons of carbon dioxide, the same as growing 22.1 million tree seedlings for ten years or the amount 738,542 acres of U.S. American forest sequester each year.²

**Biogas Systems**

<table>
<thead>
<tr>
<th>Feedstocks</th>
<th>Operational Systems</th>
<th>Potential Systems</th>
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<tbody>
<tr>
<td><strong>Food Waste</strong></td>
<td>Operational food waste biogas systems³</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Potential food waste biogas systems⁴</td>
<td>42</td>
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<tr>
<td><strong>Agriculture</strong></td>
<td>Operational biogas systems on farms⁵</td>
<td>35</td>
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<td></td>
<td>Potential dairy farm biogas systems⁶</td>
<td>143</td>
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<td></td>
<td>Potential swine farm biogas systems⁷</td>
<td>-</td>
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<tr>
<td><strong>Waste Water</strong></td>
<td>Operational biogas systems at water resource recovery facilities⁸</td>
<td>117</td>
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<td>Potential biogas systems at WRRFS⁹</td>
<td>120</td>
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<tr>
<td><strong>Landfills</strong></td>
<td>Operational landfill gas systems¹⁰</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>Potential landfill gas systems¹¹</td>
<td>3</td>
</tr>
</tbody>
</table>

**U.S. Energy Rankings**

<table>
<thead>
<tr>
<th>Energy</th>
<th>Ranks in U.S.</th>
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</thead>
<tbody>
<tr>
<td>Total CO2 Emissions¹²</td>
<td>9th, 3.7% share</td>
</tr>
<tr>
<td>Per Capita Energy Consumption¹³</td>
<td>Last in U.S.</td>
</tr>
<tr>
<td>Renewable Electricity Generation¹⁴</td>
<td>4th in U.S.</td>
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<tr>
<td>Energy Prices Rank¹⁵</td>
<td>10th in U.S.</td>
</tr>
</tbody>
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**Operational Systems**

Total Manure Volume¹⁶: 12.4 million gallons per day
Total Dairy Manure¹⁷: 11.1 million gallons per day
Total Swine Manure¹⁸: 105 thousand gallons per day
Total Beef Manure¹⁹: 1.2 million gallons per day

Total Food Waste Generated: 2,098,250 tons per year

*All citations are available on AmericanBiogasCouncil.org. Last Updated: 6/6/16
New York Green Policies

New York is active in both sustainability and waste diversion.

The newly proposed CEF, or Clean Energy Fund, is comprised of a $5 billion plan that will begin supporting NYSERDA programs in 2016 and ending in 2025. This would help NY state reach its ambitious goals of cutting greenhouse gas emissions by 50% by the year 2030, and 80% by the year 2050. In REV’s proposal it states that “NY State should consider legislation allowing wastewater treatment plants to net-meter electricity produced from biogas to encourage full use of the available waste stream.”

There are also active bills which we are tracking related to recycling: A01577, S01776, S01161, A00819.

State RPS\(^23\) 30% by 2015, Includes AD

(RGGI) Green House Gas Bans\(^24\) 5 % below 1990 levels by 2010; 10 % below 1990 levels by 2020

CO2 Budget Trading: DEC Part 242, 21 NYCRR Part 507

RGGI Statutes & Regulations

Sustainability Commitments

NYC Recycling Law 146-2013, Local Law 77; E-waste Recycling PlaNYC; Sustainable NYCT; Beyond Waste; Clean Cities Coalition, Cleaner, Greener Communities

NY State Regulations

Air: 6NYCRR212, 6NYCRR211.1 Solid Waste: Part 360 Permit Water: CAFO permit covers AD.

New York Biogas Resources

- State Incentives for Renewables & Energy Efficiency – NY State RPS
- Regional Greenhouse Gas Initiative (RGGI) – New York State
- Rural Energy for America Program (REAP) Grants
- New York State Senate
- New York State Assembly
- New York State Energy Research & Development Authority
- Organics Material Exchange
- Food Waste Reduction Alliance
- USDA Rural Development – NY
- NYSERDA’s Anaerobic Digester Workforce Development Project
- Composting and Organic Materials Management Materials - NYDEC
- Current NY State Electricity Rates

New York Biogas Companies

- Applied Minerals Inc
- Blue Sphere
- Brad Penn Lubricants
- ClearCove Systems
- D&B Engineers and Architects
- Ed Dodge, Researcher
- EnviTec Biogas USA, Inc.
- Evolution of Biogas Systems
- Gaia Strategies
- Ithaca Area Wastewater Treatment Facility
- Long Island Compost
- O’Brien & Gere
- PlanET Biogas USA Inc.
- Rabobank
- SUNY College of Environmental Science and Forestry
- The Ketcham Group/PowerCrush Inc


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