Biogas State Profile: Pennsylvania

Pennsylvania ranks #**3** out of 50 states for its biogas production potential of **258.1 billion ft^3/yr.**

Biogas Capture Systems in Pennsylvania

A full build-out of Pennsylvania's biogas industry offers these benefits:

Energy Benefits

Up to **135.0 billion ft^3** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **17.7 billion kWh** equivalent to the annual electricity usage of **1,642,202 households**

or **13,834 million kWh** electricity and **5,389 million BTU/h** heat (engine)

or **23,139 million kWh** electricity and **38,564 million kWh** heat (fuel cell)

or **2.0 GW** Nameplate Capacity equivalent to **40 U.S. power stations** (avg. size)

or **139.8 million MMBtu/yr** equivalent to energy consumption of **1,820,561 homes**

or **1,163.5 million gallons** of GGE, enough to fuel **659,179 delivery trucks** for one year

Economic Benefits

$19.2 billion
in capital investment

35,444
construction jobs
to build the systems

2,060
long-term jobs
to operate the systems

Climate Benefits

Equivalent to the GHG emissions avoided by taking **172,397 cars off the road**

Equivalent to the carbon sequestered by **739,583 acres of forest**

Equivalent emission reductions to **5,221 U.S. football fields of solar panels**

Equivalent to the GHG emissions avoided by running **221 U.S. wind turbines** (avg. size) for a year

Recycling Benefits

1,915,100 tons/yr of dairy manure, which could produce **3.1 billion ft^3** of biogas each year

2,091,217 tons/yr of swine manure, which could produce **1.39 billion ft^3** of biogas each year

287,690 tons/yr of poultry manure, which could produce **13.4 billion ft^3** of biogas each year

2,230,000 tons/yr of food waste, which could produce **5.8 billion ft^3** of biogas each year

1,692 million gallons/day of wastewater, which could produce **7.5 billion ft^3** of biogas each year