

Virginia ranks **#7** out of 50 states for its biogas production potential of **145.9 billion ft³/yr.**

Biogas Capture Systems in Virginia



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

Energy Benefits

Up to **76.8 billion ft³** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **10.2 billion kWh** equivalent to the annual electricity usage of **943,602 households**

or **7,821 million kWh** electricity and **3,046 million BTU/h** heat (engine)

or **13,080 million kWh** electricity and **21,801 million kWh** heat (fuel cell)

or **1.2 GW** Nameplate Capacity equivalent to **23 U.S. power stations** (avg. size)

or **79.6 million MMBtu/yr** equivalent to energy consumption of **1,036,570 homes**

or **662.4 million gallons** of GGE, enough to fuel **375,316 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
\$7.3 billion in capital investment 13,164 construction jobs to build the systems 776 long-term jobs to operate the systems	Equivalent to the GHG emissions avoided by taking 98,157 cars off the road Equivalent to the carbon sequestered by 421,095 acres of forest Equivalent emission reductions to 2,972 U.S. football fields of solar panels Equivalent to the GHG emissions avoided by running 126 U.S. wind turbines (avg. size) for a year	590,512 tons/yr of dairy manure, which could produce 1.0 billion ft³ of biogas each year 321,590 tons/yr of swine manure, which could produce 0.21 billion ft³ of biogas each year 399,605 tons/yr of poultry manure, which could produce 18.6 billion ft³ of biogas each year 1,520,000 tons/yr of food waste, which could produce 3.9 billion ft³ of biogas each year 1,224 million gallons/day of wastewater, which could produce 3.9 billion ft³ of biogas each year