

North Carolina ranks **#10** out of 50 states for its biogas production potential of **136.0 billion ft³/yr.**

Biogas Capture Systems in North Carolina



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

Energy Benefits

Up to **79.3 billion ft³** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **10.1 billion kWh** equivalent to the annual electricity usage of **937,509 households**

or **7,286 million kWh** electricity and **2,838 million BTU/h** heat (engine)

or **12,186 million kWh** electricity and **20,310 million kWh** heat (fuel cell)

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

or **82.1 million MMBtu/yr** equivalent to energy consumption of **1,069,342 homes**

or **683.4 million gallons** of GGE, enough to fuel **387,182 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
\$22.4 billion in capital investment 62,796 construction jobs to build the systems 2,920 long-term jobs to operate the systems	Equivalent to the GHG emissions avoided by taking 101,261 cars off the road Equivalent to the carbon sequestered by 434,408 acres of forest Equivalent emission reductions to 3,066 U.S. football fields of solar panels Equivalent to the GHG emissions avoided by running 130 U.S. wind turbines (avg. size) for a year	433,890 tons/yr of dairy manure, which could produce 0.7 billion ft³ of biogas each year 13,474,335 tons/yr of swine manure, which could produce 8.93 billion ft³ of biogas each year 1,392,392 tons/yr of poultry manure, which could produce 64.8 billion ft³ of biogas each year 2,290,000 tons/yr of food waste, which could produce 5.9 billion ft³ of biogas each year 854 million gallons/day of wastewater, which could produce 3.8 billion ft³ of biogas each year