

Oklahoma ranks **#24** out of 50 states for its biogas production potential of **43.2 billion ft³/yr.**

Biogas Capture Systems in Oklahoma



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

Energy Benefits

Up to **24.5 billion ft³** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **3.1 billion kWh** equivalent to the annual electricity usage of **288,768 households**

or **2,314 million kWh** electricity and **901 million BTU/h** heat (engine)

or **3,871 million kWh** electricity and **6,451 million kWh** heat (fuel cell)

or **0.4 GW** Nameplate Capacity equivalent to **7 U.S. power stations** (avg. size)

or **25.4 million MMBtu/yr** equivalent to energy consumption of **330,138 homes**

or **211.0 million gallons** of GGE, enough to fuel **119,535 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
\$4.2 billion in capital investment 8,190 construction jobs to build the systems 472 long-term jobs to operate the systems	Equivalent to the GHG emissions avoided by taking 31,262 cars off the road Equivalent to the carbon sequestered by 134,115 acres of forest Equivalent emission reductions to 947 U.S. football fields of solar panels Equivalent to the GHG emissions avoided by running 40 U.S. wind turbines (avg. size) for a year	741,665 tons/yr of dairy manure, which could produce 1.2 billion ft³ of biogas each year 2,510,265 tons/yr of swine manure, which could produce 1.66 billion ft³ of biogas each year 297,520 tons/yr of poultry manure, which could produce 13.8 billion ft³ of biogas each year 644,000 tons/yr of food waste, which could produce 1.7 billion ft³ of biogas each year 326 million gallons/day of wastewater, which could produce 1.4 billion ft³ of biogas each year