

Nebraska ranks **#34** out of 50 states for its biogas production potential of **27.8 billion ft³/yr.**

Biogas Capture Systems in Nebraska



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

Energy Benefits

Up to **15.9 billion ft³** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **2.1 billion kWh** equivalent to the annual electricity usage of **190,461 households**

or **1,488 million kWh** electricity and **580 million BTU/h** heat (engine)

or **2,489 million kWh** electricity and **4,149 million kWh** heat (fuel cell)

or **0.2 GW** Nameplate Capacity equivalent to **5 U.S. power stations** (avg. size)

or **16.5 million MMBtu/yr** equivalent to energy consumption of **214,444 homes**

or **137.0 million gallons** of GGE, enough to fuel **77,645 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
\$8.3 billion in capital investment 20,150 construction jobs to build the systems 901 long-term jobs to operate the systems	Equivalent to the GHG emissions avoided by taking 20,307 cars off the road Equivalent to the carbon sequestered by 87,115 acres of forest Equivalent emission reductions to 615 U.S. football fields of solar panels Equivalent to the GHG emissions avoided by running 26 U.S. wind turbines (avg. size) for a year	1,105,804 tons/yr of dairy manure, which could produce 1.8 billion ft³ of biogas each year 6,095,816 tons/yr of swine manure, which could produce 4.04 billion ft³ of biogas each year 114,571 tons/yr of poultry manure, which could produce 5.3 billion ft³ of biogas each year 471,000 tons/yr of food waste, which could produce 1.2 billion ft³ of biogas each year 629 million gallons/day of wastewater, which could produce 2.1 billion ft³ of biogas each year