

Kentucky ranks #23 out of 50 states for its biogas production potential of **47.7 billion ft³/yr.**

Biogas Capture Systems in Kentucky



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

Energy Benefits

Up to **26.5 billion ft³** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **3.5 billion kWh** equivalent to the annual electricity usage of **321,173 households**

or **2,554 million kWh** electricity and **995 million BTU/h** heat (engine)

or **4,271 million kWh** electricity and **7,119 million kWh** heat (fuel cell)

or **0.4 GW** Nameplate Capacity equivalent to **8 U.S. power stations** (avg. size)

or **27.4 million MMBtu/yr** equivalent to energy consumption of **357,070 homes**

or **228.2 million gallons** of GGE, enough to fuel **129,286 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<p>\$5.1 billion in capital investment</p> <p>8,919 construction jobs to build the systems</p> <p>557 long-term jobs to operate the systems</p>	<p>Equivalent to the GHG emissions avoided by taking 33,813 cars off the road</p> <p>Equivalent to the carbon sequestered by 145,056 acres of forest</p> <p>Equivalent emission reductions to 1,024 U.S. football fields of solar panels</p> <p>Equivalent to the GHG emissions avoided by running 43 U.S. wind turbines (avg. size) for a year</p>	<p>230,333 tons/yr of dairy manure, which could produce 0.4 billion ft³ of biogas each year</p> <p>753,745 tons/yr of swine manure, which could produce 0.50 billion ft³ of biogas each year</p> <p>348,372 tons/yr of poultry manure, which could produce 16.2 billion ft³ of biogas each year</p> <p>766,000 tons/yr of food waste, which could produce 2.0 billion ft³ of biogas each year</p> <p>525 million gallons/day of wastewater, which could produce 2.1 billion ft³ of biogas each year</p>