

Tennessee ranks **#19** out of 50 states for its biogas production potential of **57.7 billion ft³/yr.**

Biogas Capture Systems in Tennessee



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

Energy Benefits

Up to **31.9 billion ft³** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **4.2 billion kWh** equivalent to the annual electricity usage of **385,146 households**

or **3,090 million kWh** electricity and **1,203 million BTU/h** heat (engine)

or **5,167 million kWh** electricity and **8,612 million kWh** heat (fuel cell)

or **0.5 GW** Nameplate Capacity equivalent to **9 U.S. power stations** (avg. size)

or **33.1 million MMBtu/yr** equivalent to energy consumption of **430,855 homes**

or **275.3 million gallons** of GGE, enough to fuel **156,002 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<p>\$6.3 billion in capital investment</p> <p>11,153 construction jobs to build the systems</p> <p>687 long-term jobs to operate the systems</p>	<p>Equivalent to the GHG emissions avoided by taking 40,800 cars off the road</p> <p>Equivalent to the carbon sequestered by 175,030 acres of forest</p> <p>Equivalent emission reductions to 1,236 U.S. football fields of solar panels</p> <p>Equivalent to the GHG emissions avoided by running 52 U.S. wind turbines (avg. size) for a year</p>	<p>206,112 tons/yr of dairy manure, which could produce 0.3 billion ft³ of biogas each year</p> <p>454,218 tons/yr of swine manure, which could produce 0.30 billion ft³ of biogas each year</p> <p>257,133 tons/yr of poultry manure, which could produce 12.0 billion ft³ of biogas each year</p> <p>1,330,000 tons/yr of food waste, which could produce 3.4 billion ft³ of biogas each year</p> <p>1,271 million gallons/day of wastewater, which could produce 4.1 billion ft³ of biogas each year</p>