

West Virginia ranks #41 out of 50 states for its biogas production potential of **9.9 billion ft<sup>3</sup>/yr.**

## Biogas Capture Systems in West Virginia



**A full build-out of West Virginia's biogas industry offers these benefits:**

### Energy Benefits

Up to **5.6 billion ft<sup>3</sup>** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **0.7 billion kWh** equivalent to the annual electricity usage of **68,206 households**

or **529 million kWh** electricity and **206 million BTU/h** heat (engine)

or **885 million kWh** electricity and **1,475 million kWh** heat (fuel cell)

or **0.1 GW** Nameplate Capacity equivalent to **2 U.S. power stations** (avg. size)

or **5.8 million MMBtu/yr** equivalent to energy consumption of **75,227 homes**

or **48.1 million gallons** of GGE, enough to fuel **27,238 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<p><b>\$2.0 billion</b> in capital investment</p> <p><b>3,353 construction jobs</b> to build the systems</p> <p><b>247 long-term jobs</b> to operate the systems</p>	<p>Equivalent to the GHG emissions avoided by taking <b>7,124 cars off the road</b></p> <p>Equivalent to the carbon sequestered by <b>30,560 acres of forest</b></p> <p>Equivalent emission reductions to <b>216 U.S. football fields of solar panels</b></p> <p>Equivalent to the GHG emissions avoided by running <b>9 U.S. wind turbines</b> (avg. size) for a year</p>	<p><b>77,733 tons/yr</b> of poultry manure, which could produce <b>3.6 billion ft<sup>3</sup></b> of biogas each year</p> <p><b>267,000 tons/yr</b> of food waste, which could produce <b>0.7 billion ft<sup>3</sup></b> of biogas each year</p> <p><b>191 million gallons/day</b> of wastewater, which could produce <b>0.9 billion ft<sup>3</sup></b> of biogas each year</p>