

Iowa ranks **#22** out of 50 states for its biogas production potential of **50.3 billion ft<sup>3</sup>/yr.**

## Biogas Capture Systems in Iowa



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

### Energy Benefits

Up to **31.5 billion ft<sup>3</sup>** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **3.6 billion kWh** equivalent to the annual electricity usage of **331,300 households**

or **2,697 million kWh** electricity and **1,050 million BTU/h** heat (engine)

or **4,510 million kWh** electricity and **7,517 million kWh** heat (fuel cell)

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

or **32.6 million MMBtu/yr** equivalent to energy consumption of **424,321 homes**

or **271.2 million gallons** of GGE, enough to fuel **153,636 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<b>\$54.3 billion</b> in capital investment  <b>153,084</b> <b>construction jobs</b> to build the systems  <b>6,420</b> <b>long-term jobs</b> to operate the systems	Equivalent to the GHG emissions avoided by taking <b>40,181 cars off the road</b>  Equivalent to the carbon sequestered by <b>172,376 acres of forest</b>  Equivalent emission reductions to <b>1,217 U.S. football fields of solar panels</b>  Equivalent to the GHG emissions avoided by running <b>51 U.S. wind turbines</b> (avg. size) for a year	<b>2,125,070 tons/yr</b> of dairy manure, which could produce <b>3.5 billion ft<sup>3</sup></b> of biogas each year  <b>40,433,935 tons/yr</b> of swine manure, which could produce <b>26.81 billion ft<sup>3</sup></b> of biogas each year  <b>867,000 tons/yr</b> of food waste, which could produce <b>2.2 billion ft<sup>3</sup></b> of biogas each year  <b>620 million gallons/day</b> of wastewater, which could produce <b>2.2 billion ft<sup>3</sup></b> of biogas each year