

Illinois ranks **#9** out of 50 states for its biogas production potential of **138.8 billion ft<sup>3</sup>/yr.**

## Biogas Capture Systems in Illinois



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

### Energy Benefits

Up to **73.9 billion ft<sup>3</sup>** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **9.7 billion kWh** equivalent to the annual electricity usage of **897,582 households**

or **7,440 million kWh** electricity and **2,898 million BTU/h** heat (engine)

or **12,443 million kWh** electricity and **20,739 million kWh** heat (fuel cell)

or **1.1 GW** Nameplate Capacity equivalent to **22 U.S. power stations** (avg. size)

or **76.6 million MMBtu/yr** equivalent to energy consumption of **997,035 homes**

or **637.2 million gallons** of GGE, enough to fuel **361,001 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<b>\$18.3 billion</b> in capital investment  <b>44,997</b> <b>construction jobs</b> to build the systems  <b>2,298</b> <b>long-term jobs</b> to operate the systems	Equivalent to the GHG emissions avoided by taking <b>94,414 cars off the road</b>  Equivalent to the carbon sequestered by <b>405,035 acres of forest</b>  Equivalent emission reductions to <b>2,859 U.S. football fields of solar panels</b>  Equivalent to the GHG emissions avoided by running <b>121 U.S. wind turbines</b> (avg. size) for a year	<b>508,496 tons/yr</b> of dairy manure, which could produce <b>0.8 billion ft<sup>3</sup></b> of biogas each year  <b>8,861,570 tons/yr</b> of swine manure, which could produce <b>5.88 billion ft<sup>3</sup></b> of biogas each year  <b>2,260,000 tons/yr</b> of food waste, which could produce <b>5.9 billion ft<sup>3</sup></b> of biogas each year  <b>2,773 million gallons/day</b> of wastewater, which could produce <b>12.0 billion ft<sup>3</sup></b> of biogas each year