

Kansas ranks **#32** out of 50 states for its biogas production potential of **30.0 billion ft<sup>3</sup>/yr.**

## Biogas Capture Systems in Kansas



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

### Energy Benefits

Up to **16.9 billion ft<sup>3</sup>** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **2.1 billion kWh** equivalent to the annual electricity usage of **193,368 households**

or **1,610 million kWh** electricity and **627 million BTU/h** heat (engine)

or **2,693 million kWh** electricity and **4,488 million kWh** heat (fuel cell)

or **0.2 GW** Nameplate Capacity equivalent to **5 U.S. power stations** (avg. size)

or **17.5 million MMBtu/yr** equivalent to energy consumption of **227,855 homes**

or **145.6 million gallons** of GGE, enough to fuel **82,500 delivery trucks** for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<b>\$5.4 billion</b> in capital investment  <b>11,190</b> <b>construction jobs</b> to build the systems  <b>577</b> <b>long-term jobs</b> to operate the systems	Equivalent to the GHG emissions avoided by taking <b>21,577 cars off the road</b>  Equivalent to the carbon sequestered by <b>92,563 acres of forest</b>  Equivalent emission reductions to <b>653 U.S. football fields of solar panels</b>  Equivalent to the GHG emissions avoided by running <b>28 U.S. wind turbines</b> (avg. size) for a year	<b>3,652,143 tons/yr</b> of dairy manure, which could produce <b>6.0 billion ft<sup>3</sup></b> of biogas each year  <b>2,707,658 tons/yr</b> of swine manure, which could produce <b>1.80 billion ft<sup>3</sup></b> of biogas each year  <b>523,000 tons/yr</b> of food waste, which could produce <b>1.4 billion ft<sup>3</sup></b> of biogas each year  <b>280 million gallons/day</b> of wastewater, which could produce <b>1.1 billion ft<sup>3</sup></b> of biogas each year