

KENTUCKY

BIOGAS STATE PROFILE

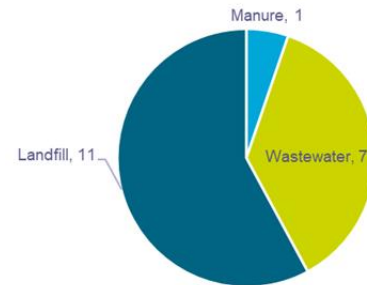


Kentucky ranks **23rd** out of 50 states for its biogas production potential. We estimate up to 17.22 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!

Potential Systems



Operational Systems



THE POWER OF 26.91 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **1442 million kWh** electricity and **562 million BTU/h** heat (engine); OR
- **2412 million kWh** electricity and **4020 million kWh** heat (fuel cell); OR
- **223.7 million gge** fuel; OR
- **127 million kWh** heat.

ECONOMIC GROWTH:

Constructing 192 new systems would generate about...

- **\$576 million** in capital investments,
- **4802** construction jobs, AND
- **319** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **760 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **105200** acres of forest, OR
- Removing **1.7 million** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	4 million tons/yr	18 billion cuft/yr
<i>Broiler</i>	2.2 million tons/yr	
<i>Dairy</i>	1.4 million tons/yr	
<i>Swine</i>	493000 tons/yr	
<i>Turkey</i>	-	
Food Waste	1.39 million tons/yr	7.58 billion cuft/yr
Landfill	-	-
Wastewater Facility*	228 gallons/day	1.32 billion cuft/yr
Total Biogas	-	26.91 billion cuft/yr

*Wastewater facility greater than 1 MGD