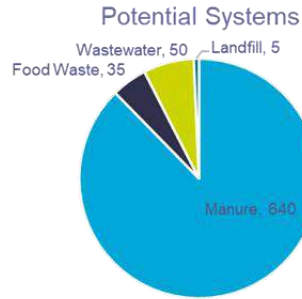


MINNESOTA

BIOGAS STATE PROFILE



Minnesota ranks **8th** out of 50 states for its biogas production potential. We estimate up to 46.91 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



THE POWER OF 73.3 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **3928 million kWh** electricity and **1530 million BTU/h** heat (engine); OR
- **6570 million kWh** electricity and **10950 million kWh** heat (fuel cell); OR
- **609.3 million gge** fuel; OR
- **346 million kWh** heat.

ECONOMIC GROWTH:

Constructing 730 new systems would generate about...

- **\$2.19 billion** in capital investments,
- **18261** construction jobs, AND
- **1213** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **2070 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **286700** acres of forest, OR
- Removing **4629 thousand** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	29 million tons/yr	61.6 billion cuft/yr
<i>Broiler</i>	0.4 million tons/yr	
<i>Dairy</i>	11.5 million tons/yr	
<i>Swine</i>	15.6 million tons/yr	
<i>Turkey</i>	1.6 million tons/yr	
Food Waste	1.75 million tons/yr	9.57 billion cuft/yr
Landfill	-	-
Wastewater Facility*	371 gallons/day	2.15 billion cuft/yr
Total Biogas	-	73.3 billion cuft/yr

*Wastewater facility greater than 1 MGD