

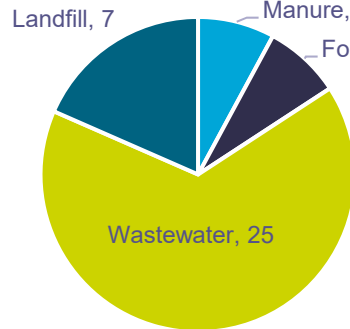
MINNESOTA

BIOGAS STATE PROFILE

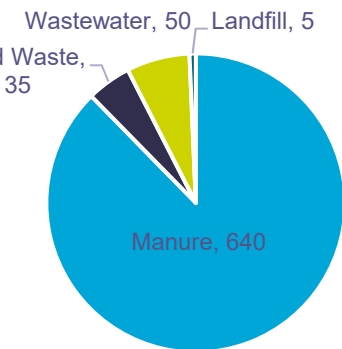


Minnesota ranks **8th** out of 50 states for its biogas production potential. We estimate up to 46.91 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!

Operational Systems (38)



Potential Systems (730)



THE POWER OF 73.3 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **3928 million** kW·h electricity and **1530 million** BTU/h by engine; OR
- **6570 million** kW·h electricity and **10950 million** kW·h by fuel cell; OR
- **952 thousand** gallons vehicle fuel; OR
- **346 million** kW·h 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