

NORTH DAKOTA

BIOGAS STATE PROFILE



North Dakota ranks **47th** out of 50 states for its biogas production potential. We estimate up to 1.66 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



THE POWER OF 2.59 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **139 million** kWh electricity and **54 million** BTU/h heat (engine); OR
- **233 million** kWh electricity and **388 million** kWh heat (fuel cell); OR
- **21.6 million** gge fuel; OR
- **12 million** kWh heat.

ECONOMIC GROWTH:

Constructing 47 new systems would generate about...

- **\$140 million** in capital investments,
- **1168** construction jobs, AND
- **78** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **73 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **10100** acres of forest, OR
- Removing **164 thousand** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	634000 tons/yr	1197.3 million cuft/yr
<i>Broiler</i>	-	
<i>Dairy</i>	383000 tons/yr	
<i>Swine</i>	251000 tons/yr	
<i>Turkey</i>	-	
Food Waste	0.24 million tons/yr	1.29 billion cuft/yr
Landfill	-	-
Wastewater Facility*	19 gallons/day	0.11 billion cuft/yr
Total Biogas	-	2.59 billion cuft/yr

*Wastewater facility greater than 1 MGD