

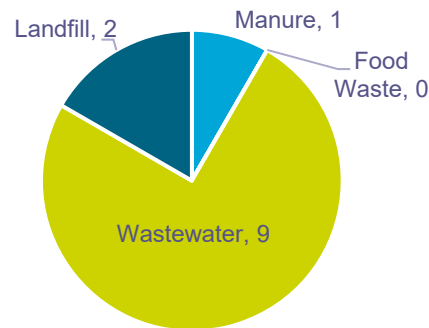
SOUTH DAKOTA

BIOGAS STATE PROFILE

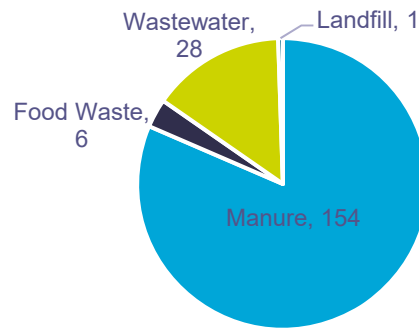


South Dakota ranks **36th** out of 50 states for its biogas production potential. We estimate up to 9.11 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!

Operational Systems (12)



Potential Systems (189)



THE POWER OF 14.24 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **763 million** kW·h electricity and **297 million** BTU/h by engine; OR
- **1276 million** kW·h electricity and **2127 million** kW·h by fuel cell; OR
- **185 thousand** gallons vehicle fuel; OR
- **67 million** kW·h heat.

ECONOMIC GROWTH:

Constructing 189 new systems would generate about...

- **\$566 million** in capital investments,
- **4715** construction jobs, AND
- **313** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **402 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **55700** acres of forest, OR
- Removing **899 thousand** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

| Type | Production | Biogas |
|-----------------------------|----------------------|-----------------------|
| Manure (total) | 6.3 million tons/yr | 12.3 billion cuft/yr |
| <i>Broiler</i> | - | |
| <i>Dairy</i> | 3.1 million tons/yr | |
| <i>Swine</i> | 3 million tons/yr | |
| <i>Turkey</i> | 157000 tons/yr | |
| Food Waste | 0.28 million tons/yr | 1.51 billion cuft/yr |
| Landfill | - | - |
| Wastewater Facility* | 75 gallons/day | 0.43 billion cuft/yr |
| Total Biogas | - | 14.24 billion cuft/yr |

*Wastewater facility greater than 1 MGD