

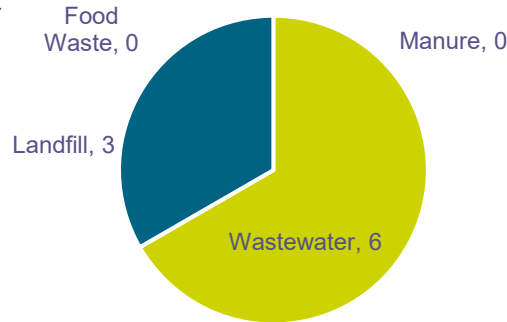
WEST VIRGINIA

BIOGAS STATE PROFILE

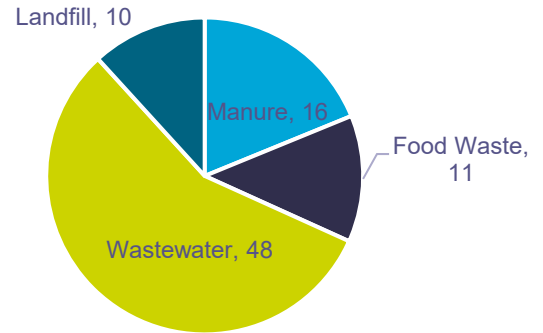


West Virginia ranks **39th** out of 50 states for its biogas production potential. We estimate up to 5.4 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!

Operational Systems (9)



Potential Systems (85)



THE POWER OF 8.44 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **452 million** kW·h electricity and **176 million** BTU/h by engine; OR
- **756 million** kW·h electricity and **1261 million** kW·h by fuel cell; OR
- **110 thousand** gallons vehicle fuel; OR
- **40 million** kW·h heat.

ECONOMIC GROWTH:

Constructing 85 new systems would generate about...

- **\$256 million** in capital investments,
- **2135** construction jobs, AND
- **142** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **238 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **33000** acres of forest, OR
- Removing **533 thousand** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	0.9 million tons/yr	5.1 billion cuft/yr
<i>Broiler</i>	0.6 million tons/yr	
<i>Dairy</i>	179000 tons/yr	
<i>Swine</i>	7000 tons/yr	
<i>Turkey</i>	115000 tons/yr	
Food Waste	0.55 million tons/yr	3.03 billion cuft/yr
Landfill	-	-
Wastewater Facility*	54 gallons/day	0.31 billion cuft/yr
Total Biogas	-	8.44 billion cuft/yr

*Wastewater facility greater than 1 MGD