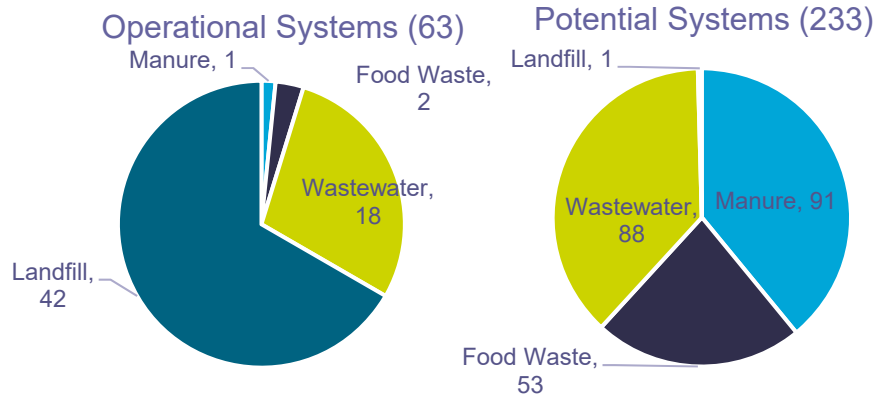


VIRGINIA

BIOGAS STATE PROFILE



Virginia ranks **19th** out of 50 states for its biogas production potential. We estimate up to 26 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



THE POWER OF 40.61 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **2177 million** kW·h electricity and **848 million** BTU/h by engine; OR
- **3640 million** kW·h electricity and **6067 million** kW·h by fuel cell; OR
- **527 thousand** gallons vehicle fuel; OR
- **192 million** kW·h heat.

ECONOMIC GROWTH:

Constructing 233 new systems would generate about...

- **\$699 million** in capital investments,
- **5822** construction jobs, AND
- **387** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **1147 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **158900** acres of forest, OR
- Removing **2.57 million** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	5.2 million tons/yr	22.5 billion cuft/yr
<i>Broiler</i>	2 million tons/yr	
<i>Dairy</i>	2 million tons/yr	
<i>Swine</i>	597000 tons/yr	
<i>Turkey</i>	622000 tons/yr	
Food Waste	2.65 million tons/yr	14.5 billion cuft/yr
Landfill	-	-
Wastewater Facility*	625 gallons/day	3.61 billion cuft/yr
Total Biogas	-	40.61 billion cuft/yr

*Wastewater facility greater than 1 MGD