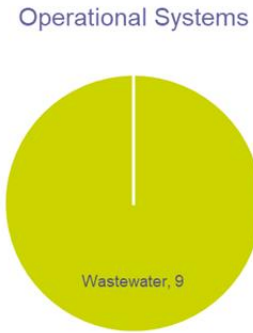


HAWAII

BIOGAS STATE PROFILE



Hawaii ranks **44th** out of 50 states for its biogas production potential. We estimate up to 2.11 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



THE POWER OF 3.29 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **176 million kWh** electricity and **69 million BTU/h** heat (engine); OR
- **295 million kWh** electricity and **491 million kWh** heat (fuel cell); OR
- **27.3 million gge** fuel; OR
- **16 million kWh** heat.

ECONOMIC GROWTH:

Constructing 30 new systems would generate about...

- **\$89 million** in capital investments,
- **744** construction jobs, AND
- **49** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **93 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **12900** acres of forest, OR
- Removing **208 thousand** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	54000 tons/yr	104.8 million cuft/yr
<i>Broiler</i>	-	
<i>Dairy</i>	38000 tons/yr	
<i>Swine</i>	16000 tons/yr	
<i>Turkey</i>	-	
Food Waste	0.44 million tons/yr	2.4 billion cuft/yr
Landfill	-	-
Wastewater Facility*	136 gallons/day	0.79 billion cuft/yr
Total Biogas	-	3.29 billion cuft/yr

*Wastewater facility greater than 1 MGD