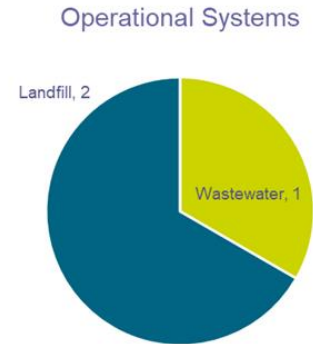


# ALASKA

## BIOGAS STATE PROFILE



Alaska ranks **50<sup>th</sup>** out of 50 states for its biogas production potential. We estimate up to 0.83 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



## THE POWER OF 1.3 BILLION CUFT OF BIOGAS:

### ENERGY POTENTIAL:

- **70 million** kWh electricity and **27 million** BTU/h heat (engine); OR
- **116 million** kWh electricity and **194 million** kWh heat (fuel cell); OR
- **10.8 million** gge fuel; OR
- **6 million** kWh heat.

### ECONOMIC GROWTH:

Constructing 20 new systems would generate about...

- **\$59 million** in capital investments,
- **489** construction jobs, AND
- **32** permanent jobs.

### REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **37 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **5100** acres of forest, OR
- Removing **82 thousand** cars from the road.

### BIOGAS SYSTEMS CAN RECYCLE:

| Type                        | Production           | Biogas               |
|-----------------------------|----------------------|----------------------|
| <b>Manure (total)</b>       | 8000 tons/yr         | 15.9 million cuft/yr |
| <i>Broiler</i>              | -                    |                      |
| <i>Dairy</i>                | 5000 tons/yr         |                      |
| <i>Swine</i>                | 3000 tons/yr         |                      |
| <i>Turkey</i>               | -                    |                      |
| <b>Food Waste</b>           | 0.23 million tons/yr | 1.24 billion cuft/yr |
| <b>Landfill</b>             | -                    | -                    |
| <b>Wastewater Facility*</b> | 7 gallons/day        | 0.04 billion cuft/yr |
| <b>Total Biogas</b>         | -                    | 1.3 billion cuft/yr  |

\*Wastewater facility greater than 1 MGD