

Washington ranks #18 out of 50 states for its biogas production potential of 59.7 billion ft<sup>3</sup>/yr.



A full build-out of Washington's biogas industry offers these benefits:

## **Energy Benefits**

## Up to **33.4 billion ft<sup>3</sup>** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or 4.3 billion kWh equivalent to the annual electricity usage of 395,927 households

or 3,197 million kWh electricity and 1,245 million BTU/h heat (engine)

or 5,347 million kWh electricity and 8,912 million kWh heat (fuel cell)

or 0.5 GW Nameplate Capacity equivalent to 10 U.S. power stations (avg. size)

or **34.6 million MMBtu/yr** equivalent to energy consumption of **451,052 homes** 

or 288.3 million gallons of GGE, enough to fuel 163,315 delivery trucks for one year

Economic Benefits	Climate Benefits	Recycling Benefits
<b>\$10.5 billion</b> in capital investment	Equivalent to the GHG emissions avoided by taking <b>42,712 cars off the road</b>	<b>5,417,494 tons/yr</b> of dairy manure, which could produce <b>8.8 billion ft</b> <sup>3</sup> of biogas each year
<b>17,989</b> construction jobs to build the systems	Equivalent to the carbon sequestered by <b>183,235 acres of forest</b>	<b>37,631 tons/yr</b> of poultry manure, which could produce <b>1.8 billion ft</b> <sup>3</sup> of biogas each year
<b>934</b> <b>long-term jobs</b> to operate the systems	Equivalent emission reductions to <b>1,293 U.S.</b> <b>football fields of solar</b> <b>panels</b> Equivalent to the GHG emissions avoided by running <b>55 U.S. wind turbines</b> (avg. size) for a year	<ul> <li>3,660,000 tons/yr of food waste, which could produce 9.5 billion ft<sup>3</sup> of biogas each year</li> <li>618 million gallons/day of wastewater, which could produce 2.9 billion ft<sup>3</sup> of biogas each year</li> </ul>