Biogas State Profile: Montana

Montana ranks **#47** out of 50 states for its biogas production potential of **3.8 billion ft^3/yr.**

Biogas Capture Systems in Montana

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

Energy Benefits

Up to **2.1 billion ft^3** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **0.3 billion kWh** equivalent to the annual electricity usage of **25,266 households**

or **203 million kWh** electricity and **79 million BTU/h** heat (engine)

or **339 million kWh** electricity and **565 million kWh** heat (fuel cell)

or **0.03 GW** Nameplate Capacity equivalent to **<1 U.S. power stations** (avg. size)

or **2.2 million MMBtu/yr** equivalent to energy consumption of **28,461 homes**

or **18.2 million gallons** of GGE, enough to fuel **10,305 delivery trucks** for one year

Economic Benefits

$1.9 billion
in capital investment

3,995
construction jobs
to build the systems

226
long-term jobs
to operate the systems

Climate Benefits

Equivalent to the GHG emissions avoided by taking **2,695 cars off the road**

Equivalent to the carbon sequestered by **11,562 acres of forest**

Equivalent emission reductions to **82 U.S. football fields of solar panels**

Equivalent to the GHG emissions avoided by running **3 U.S. wind turbines** (avg. size) for a year

Recycling Benefits

68,474 tons/yr of dairy manure, which could produce **0.1 billion ft^3** of biogas each year

390,973 tons/yr of swine manure, which could produce **0.26 billion ft^3** of biogas each year

140,000 tons/yr of food waste, which could produce **0.4 billion ft^3** of biogas each year

132 million gallons/day of wastewater, which could produce **0.6 billion ft^3** of biogas each year