Biogas State Profile: Arizona

Arizona ranks #**36** out of 50 states for its biogas production potential of **23.4 billion ft^3/yr.**

Biogas Capture Systems in Arizona

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

Energy Benefits

Up to **15.6 billion ft^3** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **1.4 billion kWh** equivalent to the annual electricity usage of **134,210 households**

or **1,255 million kWh** electricity and **489 million BTU/h** heat (engine)

or **2,099 million kWh** electricity and **3,498 million kWh** heat (fuel cell)

or **0.2 GW** Nameplate Capacity equivalent to **3 U.S. power stations** (avg. size)

or **16.1 million MMBtu/yr** equivalent to energy consumption of **209,904 homes**

or **134.1 million gallons** of GGE, enough to fuel **76,001 delivery trucks** for one year

Economic Benefits

$6.7 billion
in capital investment

10,522
construction jobs
to build the systems

593
long-term jobs
to operate the systems

Climate Benefits

Equivalent to the GHG emissions avoided by taking **19,877 cars off the road**

Equivalent to the carbon sequestered by **85,271 acres of forest**

Equivalent emission reductions to **602 U.S. football fields of solar panels**

Equivalent to the GHG emissions avoided by running **25 U.S. wind turbines** (avg. size) for a year

Recycling Benefits

660,774 tons/yr of dairy manure, which could produce **1.1 billion ft^3** of biogas each year

2,060,000 tons/yr of food waste, which could produce **5.3 billion ft^3** of biogas each year

1,104 million gallons/day of wastewater, which could produce **2.8 billion ft^3** of biogas each year