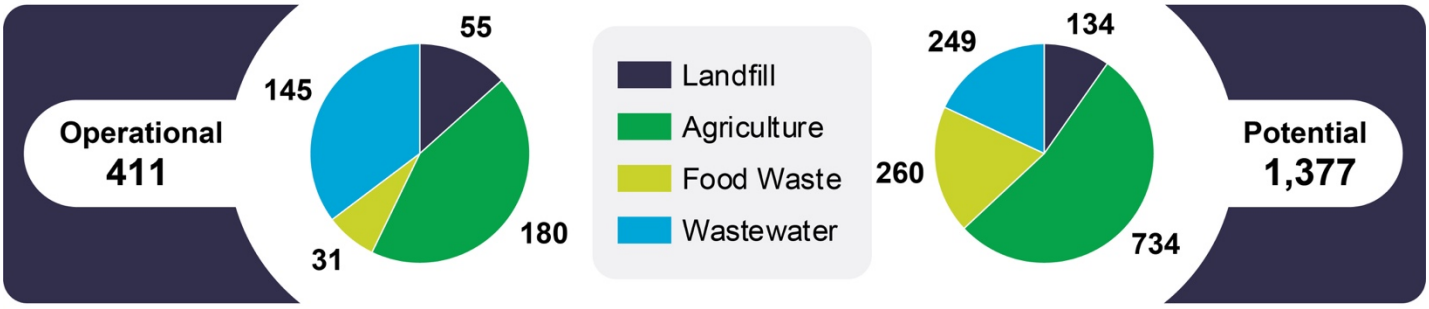
Biogas State Profile: California

California ranks #**1** out of 50 states for its biogas production potential of **502.6 billion ft^3/yr.**

Biogas Capture Systems in California



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

Energy Benefits

Up to **283.0 billion ft^3** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **33.5 billion kWh** equivalent to the annual electricity usage of **3,106,867 households**

or **26,932 million kWh** electricity and **10,490 million BTU/h** heat (engine)

or **45,045 million kWh** electricity and **75,076 million kWh** heat (fuel cell)

or **3.8 GW** Nameplate Capacity equivalent to **77 U.S. power stations** (avg. size)

or **293.2 million MMBtu/yr** equivalent to energy consumption of **3,817,527 homes**

or **2,439.6 million gallons** of GGE, enough to fuel **1,382,230 delivery trucks** for one year

Economic Benefits

$43.6 billion
in capital investment

84,082
construction jobs
to build the systems

4,128
long-term jobs
to operate the systems

Climate Benefits

Equivalent to the GHG emissions avoided by taking **361,498 cars off the road**

Equivalent to the carbon sequestered by **1,550,828 acres of forest**

Equivalent emission reductions to **10,947 U.S. football fields of solar panels**

Equivalent to the GHG emissions avoided by running **463 U.S. wind turbines** (avg. size) for a year

Recycling Benefits

18,063,569 tons/yr of dairy manure, which could produce **29.4 billion ft^3** of biogas each year

98,629 tons/yr of swine manure, which could produce **0.07 billion ft^3** of biogas each year

365,624 tons/yr of poultry manure, which could produce **17.0 billion ft^3** of biogas each year

13,000,000 tons/yr of food waste, which could produce **33.7 billion ft^3** of biogas each year

4,465 million gallons/day of wastewater, which could produce **20.9 billion ft^3** of biogas each year