Biogas State Profile: Texas

Texas ranks #**2** out of 50 states for its biogas production potential of **281.8 billion ft^3/yr.**

Biogas Capture Systems in Texas

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

Energy Benefits

Up to **155.7 billion ft^3** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **19.7 billion kWh** equivalent to the annual electricity usage of **1,823,331 households**

or **15,102 million kWh** electricity and **5,882 million BTU/h** heat (engine)

or **25,259 million kWh** electricity and **42,099 million kWh** heat (fuel cell)

or **2.2 GW** Nameplate Capacity equivalent to **45 U.S. power stations** (avg. size)

or **161.3 million MMBtu/yr** equivalent to energy consumption of **2,100,297 homes**

or **1,342.2 million gallons** of GGE, enough to fuel **760,465 delivery trucks** for one year

Economic Benefits

$27.0 billion
in capital investment

42,513
construction jobs
to build the systems

2,608
long-term jobs
to operate the systems

Climate Benefits

Equivalent to the GHG emissions avoided by taking **198,886 cars off the road**

Equivalent to the carbon sequestered by **853,223 acres of forest**

Equivalent emission reductions to **6,023 U.S. football fields of solar panels**

Equivalent to the GHG emissions avoided by running **255 U.S. wind turbines** (avg. size) for a year

Recycling Benefits

12,493,771 tons/yr of dairy manure, which could produce **20.4 billion ft^3** of biogas each year

859,649 tons/yr of swine manure, which could produce **0.57 billion ft^3** of biogas each year

1,052,372 tons/yr of poultry manure, which could produce **49.0 billion ft^3** of biogas each year

5,040,000 tons/yr of food waste, which could produce **13.1 billion ft^3** of biogas each year

2,560 million gallons/day of wastewater, which could produce **9.8 billion ft^3** of biogas each year