Biogas State Profile: South Carolina

South Carolina ranks #**21** out of 50 states for its biogas production potential of **50.6 billion ft^3/yr.**

Biogas Capture Systems in South Carolina

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

Energy Benefits

Up to **27.9 billion ft^3** of methane (renewable natural gas) could be produced each year for energy, heat, fuel, and more!

or **3.7 billion kWh** equivalent to the annual electricity usage of **343,600 households**

or **2,712 million kWh** electricity and **1,056 million BTU/h** heat (engine)

or **4,536 million kWh** electricity and **7,560 million kWh** heat (fuel cell)

or **0.4 GW** Nameplate Capacity equivalent to **8 U.S. power stations** (avg. size)

or **28.9 million MMBtu/yr** equivalent to energy consumption of **376,871 homes**

or **240.8 million gallons** of GGE, enough to fuel **136,456 delivery trucks** for one year

Economic Benefits

$4.9 billion
in capital investment

8,695
construction jobs
to build the systems

570
long-term jobs
to operate the systems

Climate Benefits

Equivalent to the GHG emissions avoided by taking **35,688 cars off the road**

Equivalent to the carbon sequestered by **153,100 acres of forest**

Equivalent emission reductions to **1,081 U.S. football fields of solar panels**

Equivalent to the GHG emissions avoided by running **46 U.S. wind turbines** (avg. size) for a year

Recycling Benefits

104,755 tons/yr of dairy manure, which could produce **0.2 billion ft^3** of biogas each year

229,282 tons/yr of swine manure, which could produce **0.15 billion ft^3** of biogas each year

388,083 tons/yr of poultry manure, which could produce **18.1 billion ft^3** of biogas each year

908,000 tons/yr of food waste, which could produce **2.4 billion ft^3** of biogas each year

604 million gallons/day of wastewater, which could produce **2.1 billion ft^3** of biogas each year