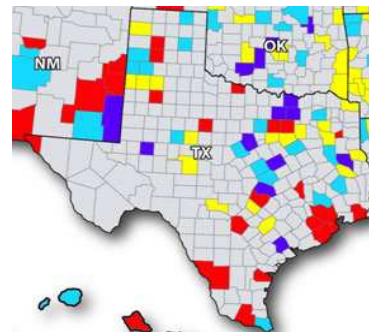




Biogas State Profile: Texas



This analysis illustrates the methane generation potential by county from the following biogas sources: landfills; animal manure; wastewater treatment; and industrial, institutional, and commercial organic waste (IIC).
 Thousand Tonnes/Year
 > 10
 5 to 10
 2.5 to 5
 1 to 2.5
 < 1

Biogas Potential

Texas ranks #2 among U.S. states for methane production potential from biogas sources.¹

Currently Texas has 91 operational biogas systems. We see the potential for more than 534 new projects to be developed based on the estimated amount of available organic material.

Constructing this many projects would generate \$ 1.6 billion in capital investment, and create 13,350 short-term construction jobs, 1,068 long-term jobs, and numerous industry-supporting jobs.

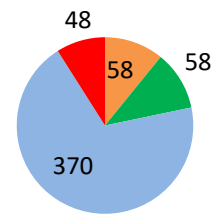
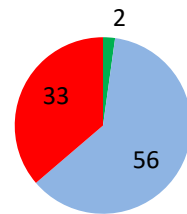
If fully realized, these biogas systems could produce enough electricity to power 337,605 homes (4.3 billion kWh) or enough renewable natural gas to fuel 624,225 thousand vehicles.

They would also collectively reduce greenhouse gas emissions by the equivalent of 39.2 trillion tons of carbon dioxide, the same as growing 88.8 million tree seedlings for ten years or the amount 2,940,096 million acres of U.S. American forest sequester each year.²

U.S. Energy Rankings

Energy	
Total CO2 Emissions ¹²	Ranks 1 st in U.S., 12.73% share
Per Capita Energy Consumption ¹³	Ranks 5 th in U.S.
Renewable Electricity Generation ¹⁴	Ranks 5 th in U.S.
Energy Prices Rank ¹⁵	Ranks 26 th in U.S.

Operational Systems Potential Systems



Food Waste Agriculture Waste Water Landfill

Biogas Systems

Food Waste

Operational Food Waste biogas systems ³	-
Potential Food Waste biogas systems ⁴	58

Agriculture

Operational biogas systems on farms ⁵	2
Potential dairy farm biogas systems ⁶	51
Potential swine farm biogas systems ⁷	7

Waste Water

Operational biogas systems at water resource recovery facilities ⁸	56
Potential biogas systems at WRRFS ⁹	370

Landfills

Operational landfill gas systems ¹⁰	33
Potential landfill gas systems ¹¹	48

Feedstocks

Manure

Total Manure Volume ¹⁶	144.1 million gallons per day
Total Dairy Manure ¹⁷	8.4 million gallons per day
Total Swine Manure ¹⁸	12.9 million gallons per day
Total Broiler Manure ¹⁹	88.7 million gallons per day
Total Beef Manure ²⁰	45.9 million gallons per day

Food Waste

Total Food Waste Generated ²¹	2,870,560 tons per year
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Waste Water

* All citations are available on AmericanBiogasCouncil.org.

Average flow from WRRF's ²²	15.3 million gallons per day
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Texas Green Policies

<p>Texas Renewable generation requirement²³</p>	<p>5,880 MW of renewable energy by 2015, and 10,000 MW by 2025. On April 14th the Senate passed SB 931. If signed into law it would end the renewable generation requirement. It is currently being referred to State Affairs.</p>
<p>Statutes & Regulations</p>	<p> Building Energy Codes Standards Texas State Implementation Plan Fuel Mix and Energy Disclosure Mandatory Renewable Energy Education Materials Texas Tax Code Incentives for Renewable Energy </p>
<p>Sustainability Commitments</p>	<p> University of Texas At Austin Sustainable Cities Institute Texas A&M Sustainable Denton University of North Texas Green Houston </p>
<p>State Funding Opportunities</p>	<p> LoanSTAR Program American Recovery and Reinvestment Act- A Texas Eye on the Dollars Environmental Quality Incentives Program Texas Emissions Reduction Plan- Grant Programs PACE </p>

Biogas Companies Located in TX

[Gas Technology Institute](#)

[GE Energy](#)

[Prosperus, Inc.](#)

[Weaver](#)

+ Dozens More

[Visit www.AmericanBiogasCouncil.org](http://www.AmericanBiogasCouncil.org) for the full Biogas Industry Directory

Texas Biogas Resources:

Treia

TTREIA is a network of project developers, corporations, financial institutions, end users, utilities, manufacturers, service providers, academia, and government leaders working to scale renewable energy, grow the local economy, and create jobs.

SECO

SECO administers and delivers a variety of energy efficiency and renewable energy programs that significantly reduce energy cost and consumption in the institutional, industrial, transportation and residential sectors.

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- 1 <http://www.nrel.gov/docs/fy14osti/60178.pdf>
 - 2 (See ABC Biogas Potential Calculator)
 - 3 (See ABC Food Waste Digester Excel Spreadsheet)
 - 4 (See ABC Biogas Potential Calculator)
 - 5 <http://epa.gov/agstar/projects/index.html>
 - 6 http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Texas/st48_1_017_019.pdf (Farms with 500 to 999 milk cows)
 - 7 http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Texas/st48_1_020_023.pdf (Farms with 5,000 or more hogs)
 - 8 <http://resourcerecoverydata.org/>
 - 9 (See Above)
 - 10 <http://www.epa.gov/lmop/projects-candidates/operational.html>
 - 11 <http://www.epa.gov/lmop/projects-candidates/candidates.html>
 - 12 <http://www.eia.gov/state/rankings/?sid=CA#series/226>
 - 13 <http://www.eia.gov/state/?sid=CA#tabs-5>
 - 14 (See Above)
 - 15 <http://www.eia.gov/state/rankings/#/series/31>
 - 16 (See EQIP State Matrix Livestock Inventory)
 - 17 (See Above)
 - 18 (See Above)
 - 19 (See Above)
 - 20 (See Above)
 - 21 (See ABC Biogas Potential Calculator)
 - 22 <http://resourcerecoverydata.org/>
 - 23 <http://www.ncsl.org/research/energy/renewable-portfolio-standards.aspx#tx>

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