



**AMERICAN  
BIOGAS  
COUNCIL**

# Biogas State Profile: Georgia

## Biogas Potential

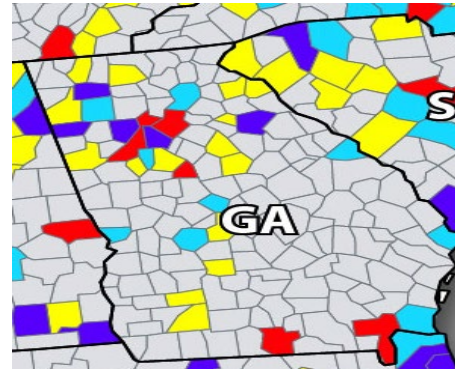
Georgia ranks #10 among U.S. states for methane production potential from biogas sources—mostly from animal manure.<sup>1</sup>

Currently Georgia has 39 operational biogas systems. We see the potential for more than 175 new projects to be developed based on the estimated amount of available organic material.

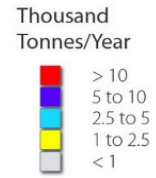
Constructing this many projects would generate \$525 million in capital investment, and create 4,375 short-term construction jobs, 350 long-term jobs, and numerous industry-supporting jobs.

If fully realized, these biogas systems could produce enough electricity to power 721,576 homes (8.1 billion kWh) or enough renewable natural gas to fuel 1,175,953 vehicles.

They would also collectively reduce greenhouse gas emissions by the equivalent of 15.2 trillion tons of carbon dioxide, the same as growing 145 million tree seedlings for ten years or the amount 4,860,375 acres of U.S. American forest sequester each year.<sup>2</sup>



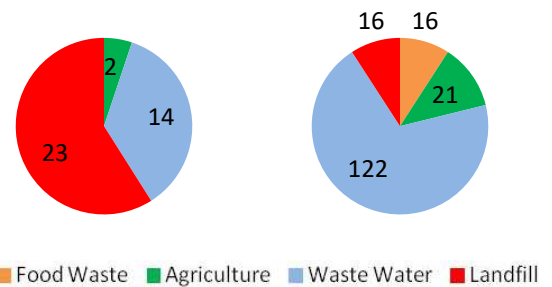
This analysis illustrates the methane generation potential by county from the following biogas sources: landfills; animal manure; wastewater treatment; and industrial, institutional, and commercial organic waste (IIC).



## U.S. Energy Rankings

Energy	
Total CO2 Emissions <sup>12</sup>	Ranks 12 <sup>th</sup> in U.S., 2.6% share
Per Capita Energy Consumption <sup>13</sup>	Ranks 32 <sup>nd</sup> in U.S.
Renewable Electricity Generation <sup>14</sup>	Ranks 16 <sup>th</sup> in U.S.
Energy Prices Rank <sup>15</sup>	Ranks 34 <sup>th</sup> in U.S.

## Operational Systems Potential Systems



## Biogas Systems

### Food Waste

Operational food waste biogas systems <sup>3</sup>	-
Potential food Waste biogas systems <sup>4</sup>	16

### Agriculture

Operational biogas systems on farms <sup>5</sup>	2
Potential dairy farm that biogas systems <sup>6</sup>	14
Potential swine farm biogas systems <sup>7</sup>	7

### Waste Water

Operational biogas systems at water resource recovery facilities <sup>8</sup>	14
Potential biogas systems at WRRFS <sup>9</sup>	122

### Landfills

Operational landfill gas systems <sup>10</sup>	23
Potential landfill gas systems <sup>11</sup>	16

## Feedstocks

### Manure

Total Manure Volume <sup>16</sup>	205.7 million gallons per day
Total Dairy Manure <sup>17</sup>	1.4 million gallons per day
Total Swine Manure <sup>18</sup>	226,500 gallons per day
Total Broiler Manure <sup>19</sup>	198.6 million gallons per day
Total Beef Manure <sup>20</sup>	5.3 million gallons per day

### Food Waste

Total Food Waste Generated <sup>21</sup>	800 thousand tons per year
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### Waste Water

\* All citations are available on [AmericanBiogasCouncil.org](http://AmericanBiogasCouncil.org).

Average flow from WRRF's <sup>22</sup>	14.6 million gallons per day
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## Georgia Green Policies

RPS <sup>23</sup>	Has yet to pass a renewable portfolio standard
Statutes & Regulations	<a href="#">Net Metering</a> <a href="#">Interconnection Guidelines</a> <a href="#">Building Energy Code</a> <a href="#">Energy Efficiency and Sustainable Construction Standard For Public Buildings</a>
Sustainable Commitments	<a href="#">Emory University</a> <a href="#">University of Georgia</a> <a href="#">City of Atlanta</a> <a href="#">Georgia Tech</a>
State Funding Opportunities	<a href="#">TVA- Green Power Providers</a> <a href="#">Electric Power Board- Energy Efficiency Rebate Program</a> <a href="#">Biomass Sales and Tax Exemption</a> <a href="#">Walton EMC- Prime Power Loan Program</a> <a href="#">Georgia Green Loans Save &amp; Sustain Program</a> <a href="#">TVA- Mid-Sized Renewable Standards Offer Program</a> <a href="#">Grants to Green Program</a>

## Biogas Companies Located in GA

[Cornerstone Resources, LLC](#)  
[Hillcrest Investors, Inc](#)  
[Hitachi Zosen Inova U.S.A, LLC](#)  
 + Dozens More

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

### Georgia Biogas Resources:

#### [Biorefining and Carbon Cycle Program](#)

This Program is a key piece of this Bioenergy initiative; a collection of faculty and staff members from varied disciplines and representing colleges and departments within the UGA campus. The program is dedicated to research, development, and demonstration of biomass conversion technologies through the concept of the Integrated Biorefinery

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- <sup>1</sup> <http://www.nrel.gov/docs/fy14osti/60178.pdf>
  - <sup>2</sup> (See ABC Biogas Potential Calculator)
  - <sup>3</sup> (See ABC Food Waste Digester Excel Spreadsheet)
  - <sup>4</sup> (See ABC Biogas Potential Calculator)
  - <sup>5</sup> <http://epa.gov/agstar/projects/index.html>
  - <sup>6</sup> [http://www.agcensus.usda.gov/Publications/2012/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Georgia/st13\\_1\\_017\\_019.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Georgia/st13_1_017_019.pdf) (Farms with 500 to 999 milk cows)
  - <sup>7</sup> [http://www.agcensus.usda.gov/Publications/2012/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Georgia/st13\\_1\\_020\\_023.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Georgia/st13_1_020_023.pdf) (Farms with 5,000 or more hogs)
  - <sup>8</sup> <http://resourcerecoverydata.org/>
  - <sup>9</sup> (See Above)
  - <sup>10</sup> <http://www.epa.gov/lmop/projects-candidates/operational.html>
  - <sup>11</sup> <http://www.epa.gov/lmop/projects-candidates/candidates.html>
  - <sup>12</sup> <http://www.eia.gov/state/rankings/?sid=CA#series/226>
  - <sup>13</sup> <http://www.eia.gov/state/?sid=CA#tabs-5>
  - <sup>14</sup> (See Above)
  - <sup>15</sup> <http://www.eia.gov/state/rankings/#/series/31>
  - <sup>16</sup> (See EQIP State Matrix Livestock Inventory)
  - <sup>17</sup> (See Above)
  - <sup>18</sup> (See Above)
  - <sup>19</sup> (See Above)
  - <sup>20</sup> (See Above)
  - <sup>21</sup> <http://epd.georgia.gov/food-residuals-diversion>
  - <sup>22</sup> <http://resourcerecoverydata.org/>
  - <sup>23</sup> <http://www.ncsl.org/research/energy/renewable-portfolio-standards.aspx>

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