



**AMERICAN  
BIOGAS  
COUNCIL**

# Biogas State Profile: Utah

## Biogas Potential

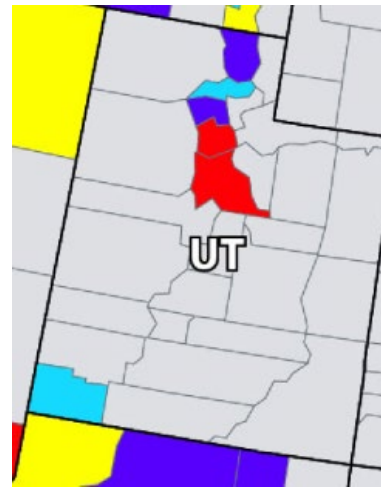
Utah ranks #37 among U.S. states for methane production potential from biogas sources.<sup>1</sup>

Currently Utah has 23 operational biogas systems. We see the potential for more than 72 new projects to be developed based on the estimated amount of available organic material.

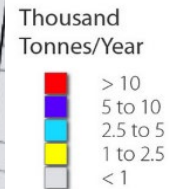
Constructing this many projects would generate \$216 Million in capital investment, and create 1,800 short-term construction jobs, 144 long-term jobs, and numerous industry-supporting jobs.

If fully realized, these biogas systems could produce enough electricity to power 13,988 (233 Million kWh) or enough renewable natural gas to fuel 33,889 thousand vehicles.

They would also collectively reduce greenhouse gas emissions by the equivalent of 4.4 trillion tons of carbon dioxide, the same as growing 4.2 million tree seedlings for ten years or the amount 140,066 acres of U.S. American forest sequester each year.<sup>2</sup>



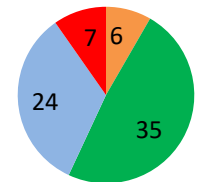
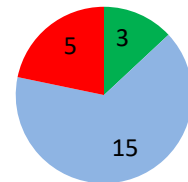
This analysis illustrates the methane generation potential by county from the following biogas sources: landfills; animal manure; wastewater treatment; and industrial, institutional, and commercial organic waste (IIC).



## U.S. Energy Rankings

Energy	
Total CO2 Emissions <sup>12</sup>	Ranks 31 <sup>st</sup> in U.S., 1.18% share
Per Capita Energy Consumption <sup>13</sup>	Ranks 34 <sup>th</sup> in U.S.
Renewable Electricity Generation <sup>14</sup>	Ranks 43 <sup>rd</sup> in U.S.
Energy Prices Rank <sup>15</sup>	Ranks 39 <sup>th</sup> in U.S.

## Operational Systems Potential Systems



■ Food Waste ■ Agriculture ■ Waste Water ■ Landfill

## Biogas Systems

### Food Waste

Operational food waste biogas systems <sup>3</sup>	-
Potential food waste biogas systems <sup>4</sup>	6

### Agriculture

Operational biogas systems on farms <sup>5</sup>	3
Potential dairy farm biogas systems <sup>6</sup>	27
Potential swine farm biogas systems <sup>7</sup>	8

### Waste Water

Operational biogas systems at water resource recovery facilities <sup>8</sup>	15
Potential biogas systems at WRRFS <sup>9</sup>	24

### Landfills

Operational landfill gas systems <sup>10</sup>	5
Potential landfill gas systems <sup>11</sup>	7

## Feedstocks

### Manure

Total Manure Volume <sup>16</sup>	7.2 million gallons per day
Total Dairy Manure <sup>17</sup>	1.7 million gallons per day
Total Swine Manure <sup>18</sup>	885 thousand gallons per day
Total Turkey Manure <sup>19</sup>	1 million gallons per day
Total Beef Manure <sup>20</sup>	3.5 million gallons per day

### Food Waste

Total Food Waste Generated <sup>21</sup>	323,730 tons per year
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### Waste Water

Average flow from WRRF's <sup>22</sup>	12.4 million gallons per day
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\* All citations are available on [AmericanBiogasCouncil.org](http://AmericanBiogasCouncil.org).

## Utah Green Policies

State RPS <sup>23</sup>	Investor-Owned Utilities, municipal utilities, and corporative utilities must use eligible renewables to account for 20% of their 2025 adjusted retail electric sales
Statutes & Regulations	<a href="#">State Building Energy Efficiency Program</a> <a href="#">Building Energy Code</a> <a href="#">Interconnection Standards</a> <a href="#">Net Metering</a>
Sustainability Commitments	<a href="#">The University of Utah</a> <a href="#">Utah State</a> <a href="#">Alta Environmental Center</a> <a href="#">SLC Green</a> <a href="#">Sustainable Cities Commitment</a>
State Funding Opportunities	<a href="#">Alternative Energy Development Incentive (Corporate)</a> <a href="#">Alternative Energy Development Incentive (Personal)</a> <a href="#">Renewable Energy Systems Tax Credit (Personal)</a> <a href="#">Renewable Energy Systems Tax Credit (Corporate)</a> <a href="#">Commercial PACE Financing</a> <a href="#">Renewable Energy Sales Tax Exemption</a> <a href="#">State Facility Energy Efficiency Fund</a>

## Biogas Companies Located in UT

<a href="#">Pure Energy Group</a> <a href="#">Smith Power Products</a> +Dozens More
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**[Visit www.AmericanBiogasCouncil.org](http://www.AmericanBiogasCouncil.org) for the full Biogas Industry Directory**

### Utah Biogas Resources:

#### [Geopower Energy](#)

“Geopower develops, owns and operates a diversified portfolio of risk-mitigated alternative energy assets, with current operations in the USA and Asia. Power generation projects are structured to deliver long-term annuity-type returns.”

#### [Alpental Energy Partners](#)

AEP is a private equity backed developer of alternative energy projects. They own and operate the Blue Mountain Biogas Plant installed in Beaver, Utah.

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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/Utah/st49\\_1\\_017\\_019.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Utah/st49_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/Utah/st49\\_1\\_020\\_023.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Utah/st49_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> (See ABC Biogas Potential Calculator)
  - <sup>22</sup> <http://resourcerecoverydata.org/>
  - <sup>23</sup> <http://programs.dsireusa.org/system/program/detail/290>
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