

**AMERICAN  
BIOGAS  
COUNCIL**

# Biogas State Profile: Idaho

## Biogas Potential

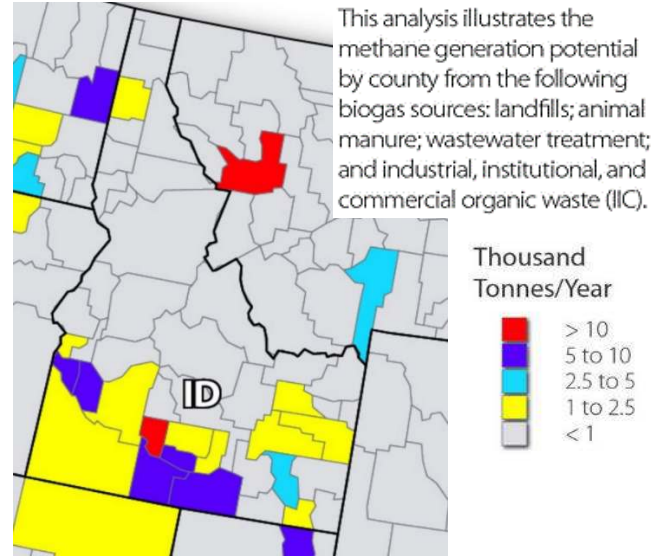
Idaho ranks # 34 among U.S. states for methane production potential from biogas sources.<sup>1</sup>

Currently Idaho has 25 operational biogas systems. We see the potential for more than 226 new projects to be developed based on the estimated amount of available organic material.

Constructing this many projects would generate \$678 million in capital investment, and create 5,650 short-term construction jobs, 452 long-term jobs, and numerous industry-supporting jobs.

If fully realized, these biogas systems could produce enough electricity to power 34,677 homes (422 billion kWh) or enough renewable natural gas to fuel 456,368 vehicles.

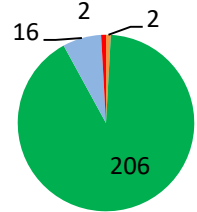
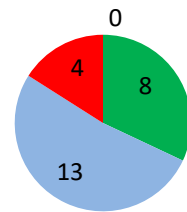
They would also collectively reduce greenhouse gas emissions by the equivalent of 2.5 trillion tons of carbon dioxide, the same as growing 7.6 million tree seedlings for ten years or the amount 253,091 acres of U.S. American forest sequester each year.<sup>2</sup>



## U.S. Energy Rankings

Energy	
Total CO2 Emissions <sup>12</sup>	Ranks 44 <sup>th</sup> in U.S., 0.4% share
Per Capita Energy Consumption <sup>13</sup>	Ranks 22 <sup>nd</sup> in U.S.
Renewable Electricity Generation <sup>14</sup>	Ranks 7 <sup>th</sup> in U.S.
Energy Prices Rank <sup>15</sup>	Ranks 44 <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>	0
Potential food waste biogas systems <sup>4</sup>	2

### Agriculture

Operational biogas systems on farms <sup>5</sup>	8
Potential dairy farm biogas systems <sup>6</sup>	201
Potential swine farm biogas systems <sup>7</sup>	5

### Waste Water

Operational biogas systems at water resource recovery facilities <sup>8</sup>	13
Potential biogas systems at WRRFS <sup>9</sup>	16

### Landfills

Operational landfill gas systems <sup>10</sup>	4
Potential landfill gas systems <sup>11</sup>	2

## Feedstocks

### Manure

Total Manure Volume <sup>16</sup>	15.7 million gallons per day
Total Dairy Manure <sup>17</sup>	10.4 million gallons per day
Total Swine Manure <sup>18</sup>	-
Total Beef Manure <sup>19</sup>	5.5 million gallons per day
Total Broiler Manure <sup>20</sup>	-
Total Turkey manure <sup>21</sup>	-

### Food Waste

Total Food Waste Generated <sup>22</sup>	91,021 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>23</sup>	3.9 million gallons per day
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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/California/st06\\_017\\_019.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/California/st06_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/California/st06\\_020\\_023.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/California/st06_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 Above)

<sup>22</sup> <http://www.calrecycle.ca.gov/Publications/Documents/General/2009023.pdf>

<sup>23</sup> <http://resourcerecoverydata.org/>

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