



# Biogas State Profile: Illinois

## Biogas Potential

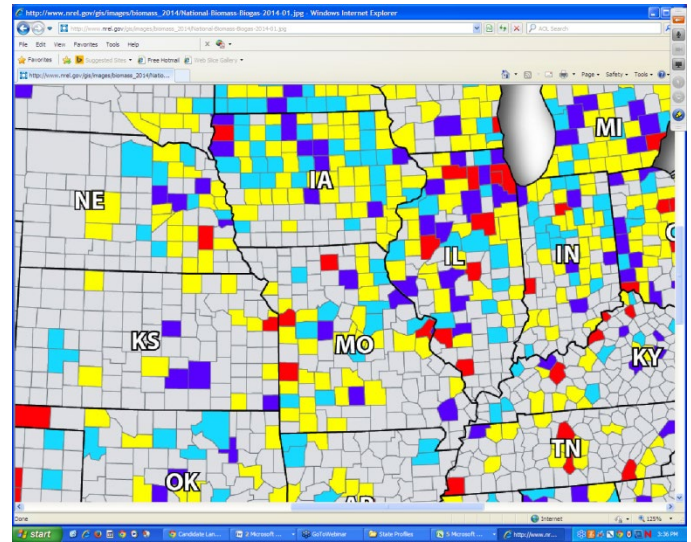
Illinois ranks #4 among U.S. states for methane production potential from biogas sources.<sup>1</sup>

Currently Illinois has 136 operational biogas systems. We see the potential for more than 300 new projects to be developed based on the estimated amount of available organic material.

Constructing this many projects would generate \$201 million in capital investment, and create 1,675 short-term construction jobs, 134 long-term jobs, and numerous industry-supporting jobs.

If fully realized, these biogas systems could produce enough electricity to power 13,553 homes (233 million kWh) or enough renewable natural gas to fuel 33,825 vehicles.

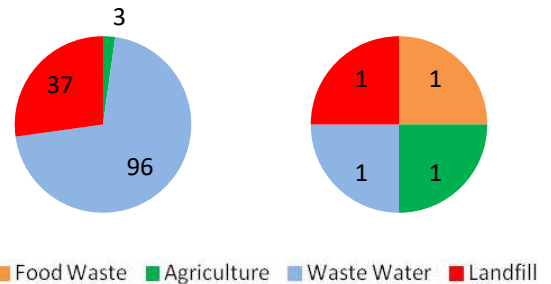
They would also collectively reduce greenhouse gas emissions by the equivalent of 4.6 trillion tons of carbon dioxide, the same as growing 4.1 million tree seedlings for ten years or the amount 139,803 acres of U.S. American forest sequester each year.<sup>2</sup>



## U.S. Energy Rankings

Energy	
Total CO2 Emissions <sup>12</sup>	Ranks in U.S., share
Per Capita Energy Consumption <sup>13</sup>	Ranks in U.S.
Renewable Electricity Generation <sup>14</sup>	Ranks in U.S.
Energy Prices Rank <sup>15</sup>	Ranks 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>	27

### Agriculture

Operational biogas systems on farms <sup>5</sup>	3
Potential dairy farm biogas systems <sup>6</sup>	12
Potential swine farm biogas systems <sup>7</sup>	247

### Waste Water

Operational biogas systems at water resource recovery facilities <sup>8</sup>	96
Potential biogas systems at WRRFS <sup>9</sup>	139

### Landfills

Operational landfill gas systems <sup>10</sup>	37
Potential landfill gas systems <sup>11</sup>	22

## Feedstocks

### Manure

Total Manure Volume <sup>16</sup>	12.7 million gallons per day
Total Dairy Manure <sup>17</sup>	million gallons per day
Total Swine Manure <sup>18</sup>	gallons per day
Total Beef Manure <sup>19</sup>	million gallons per day

### Food Waste

Total Food Waste Generated <sup>20</sup>	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>21</sup>	20.9 million gallons per day
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## Green Policies

RPS <sup>22</sup>	
Statutes and Regulations	
Sustainability Commitments	
State Funding Opportunities	

## Biogas Companies Located in

+ Dozens More

## Biogas Resources:

**American Biogas Council**  
**1211 Connecticut Ave, NW**  
**Suite 650**  
**Washington, DC 20036-2701**  
**(202) 640-6595**  
[info@americanbiogascouncil.org](mailto:info@americanbiogascouncil.org)

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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/Illinois/st17\\_1\\_017\\_019.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Illinois/st17_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/Illinois/st17\\_1\\_020\\_023.pdf](http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_State_Level/Illinois/st17_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 ABC Biogas Potential Calculator)
  - 21 <http://resourcerecoverydata.org/>
  - 22

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