

## 8. Project-Level Reporting on Form EIA-1605EZ

The Energy Information Administration (EIA) provides Form EIA-1605EZ to participants in the Voluntary Reporting of Greenhouse Gases Program as a less comprehensive and detailed alternative to Form EIA-1605. Form EIA-1605EZ allows reporters to provide a brief summary of their emission reduction projects for a single year, most recently 2001. The short form is used exclusively for reporting projects undertaken within the geographic boundaries of the United States, its territories and trusts. Because reports submitted on Form EIA-1605EZ do not make a distinction between owning or controlling an emissions source and simply initiating or participating in an emission reduction activity, there is no systematic way to distinguish between direct and indirect emissions reported on this form. Also, because the data reported in support of the emission reduction estimates are limited, it is difficult to perform anything but the most rudimentary arithmetic checks for accuracy.

### Who Reported on Form EIA-1605EZ

Thirty-two entities submitted reports on Form EIA-1605EZ for 2001. Nineteen were electric power providers, typically relatively small electric power cooperatives. Seven were alternative energy providers, including one coal mine methane developer, one landfill gas-to-energy developer, and five firms that combusted

biomass to reduce greenhouse gas emissions. Five were firms from the textile, chemical, refining, fabricated metals, and microprocessor industries, and one was an industry association.

### What Was Reported on Form EIA-1605EZ

A total of 210 projects were reported on Form EIA-1605EZ for 2001 (Table 37), down from 229 projects reported on the short form for 2000 and from a peak of 252 projects reported on the short form for 1998. The decline from 2000 was made up almost entirely by a drop in the number of projects reported by three entities that had submitted reports for 2000 on a total of 21 carbon sequestration projects but reported only 2 projects for 2001. One of the three did not report at all for 2001, and the two others condensed 15 small projects reported for 2000 into 2 larger projects for 2001. Of the 210 projects reported for 2001, 64 focused on improvements in energy efficiency, 50 emphasized reductions in emissions from electricity generation, transmission, and distribution, and another 47 involved the capture and combustion of methane. Reporting on methane capture and combustion has grown steadily since 1994. For example, U.S. Energy Biogas Corp (formerly Zahren Alternative Power Corporation), which reported 10 projects for 1994, submitted reports for 41 projects on Form EIA-1605EZ for 2001.

**Table 37. Number of Projects Reported on Form EIA-1605EZ by Reduction Objective and Project Type, Data Years 1994-2001**

Reduction Objective and Project Type	1994	1995	1996	1997	1998	1999	2000	2001
<b>Reducing Carbon Dioxide Emissions</b> . . . . .	<b>88</b>	<b>118</b>	<b>125</b>	<b>138</b>	<b>177</b>	<b>151</b>	<b>148</b>	<b>148</b>
Electricity Generation, Transmission, and Distribution . . . . .	35	44	44	46	59	53	55	50
Cogeneration and Waste Heat Recovery . . . . .	0	1	2	2	2	0	0	0
Energy End Use . . . . .	44	50	53	60	66	56	61	64
Transportation and Offroad Vehicles . . . . .	5	8	11	9	14	11	12	13
Other Projects . . . . .	4	15	15	21	36	31	20	19
<b>Reducing Methane and Nitrous Oxide Emissions</b> . . . . .	<b>15</b>	<b>21</b>	<b>30</b>	<b>32</b>	<b>41</b>	<b>45</b>	<b>44</b>	<b>47</b>
Waste Treatment and Disposal (Methane) . . . . .	10	16	21	28	39	42	43	45
Agriculture (Methane and Nitrous Oxide) . . . . .	0	0	0	0	0	0	0	0
Oil and Natural Gas Systems and Coal Mining (Methane) . . . . .	5	5	9	4	2	3	1	2
<b>Carbon Sequestration</b> . . . . .	<b>20</b>	<b>24</b>	<b>23</b>	<b>30</b>	<b>34</b>	<b>41</b>	<b>35</b>	<b>14</b>
<b>Halogenated Substances</b> . . . . .	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>
<b>Total</b> . . . . .	<b>125</b>	<b>164</b>	<b>179</b>	<b>201</b>	<b>252</b>	<b>237</b>	<b>229</b>	<b>210</b>

Note: Table excludes projects submitted in confidential reports.  
Source: Energy Information Administration, Form EIA-1605EZ.

Together, the 210 projects reported on the short form for 2001 reduced greenhouse gas emissions by 15 million metric tons carbon dioxide equivalent (Table 38). Of that total, 10 million metric tons resulted from efforts in the electricity generation, transmission, and distribution sector. Another 4 million metric tons was attributed to waste treatment and disposal, nearly all of which resulted from the capture and combustion of methane at municipal solid waste landfills (Table 39).

Federal voluntary programs played an important role in those projects reported on Form EIA-1605EZ. Of the projects reported, 180 (86 percent) were associated with some Federal voluntary initiative. Ninety-seven projects were associated with the Climate Challenge program, and 44 of the 45 waste treatment and disposal projects reported referenced the Landfill Methane Outreach Program (Table 40).

**Table 38. Emission Reductions Reported on Form EIA-1605EZ by Reduction Objective and Project Type, Data Years 1994-2001**  
(Metric Tons Carbon Dioxide Equivalent)

Reduction Objective and Project Type	1994	1995	1996	1997	1998	1999	2000	2001
<b>Reducing Carbon Dioxide Emissions . . . .</b>	<b>3,718,577</b>	<b>4,962,359</b>	<b>4,407,922</b>	<b>6,682,313</b>	<b>16,385,934</b>	<b>9,588,970</b>	<b>9,161,905</b>	<b>10,864,669</b>
Electricity Generation, Transmission, and Distribution . . . . .	2,260,679	2,882,369	2,114,294	3,801,703	13,039,812	8,118,198	7,838,882	9,685,215
Cogeneration and Waste Heat Recovery . . . . .	—	10,319	13,542	10,344	109,828	—	—	—
Energy End Use . . . . .	1,361,188	1,573,674	1,910,306	2,353,454	2,393,956	334,120	358,707	310,765
Transportation and Offroad Vehicles . . . . .	10,398	9,943	12,144	14,121	16,518	1,873	2,064	2,678
Other Projects . . . . .	86,312	486,053	357,636	502,690	825,819	1,134,779	962,253	866,011
<b>Reducing Methane and Nitrous Oxide Emissions . . . . .</b>	<b>564,022</b>	<b>1,152,190</b>	<b>1,258,256</b>	<b>1,825,780</b>	<b>3,028,286</b>	<b>3,226,071</b>	<b>3,086,281</b>	<b>3,954,618</b>
Waste Treatment and Disposal (Methane) . . . . .	560,914	1,146,893	1,245,224	1,808,738	2,973,247	3,174,198	3,085,240	3,773,702
Agriculture (Methane and Nitrous Oxide) . . . . .	—	—	—	—	—	—	—	—
Oil and Natural Gas Systems and Coal Mining (Methane) . . . . .	3,108	5,297	13,032	17,042	55,039	51,872	1,041	180,916
<b>Carbon Sequestration . . . . .</b>	<b>2,470</b>	<b>7,569</b>	<b>2,519</b>	<b>5,466</b>	<b>4,025</b>	<b>71,048</b>	<b>5,081</b>	<b>9,088</b>
<b>Halogenated Substances . . . . .</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>123,049</b>	<b>—</b>	<b>—</b>	<b>20,744</b>	<b>11,327</b>
<b>Total . . . . .</b>	<b>4,285,069</b>	<b>6,122,117</b>	<b>5,668,697</b>	<b>8,636,608</b>	<b>19,418,245</b>	<b>12,886,089</b>	<b>12,274,012</b>	<b>14,839,701</b>

— = none reported.

Note: Table excludes data submitted in confidential reports.

Source: Energy Information Administration, Form EIA-1605EZ.

**Table 39. Carbon Dioxide and Methane Emission Reductions Reported on Form EIA-1605EZ by Reduction Objective and Project Type, Data Year 2001**  
(Metric Tons of Gas)

Reduction Objective and Project Type	Carbon Dioxide	Methane
<b>Reducing Carbon Dioxide Emissions . . . . .</b>	<b>10,832,093</b>	<b>19,596</b>
Electricity Generation, Transmission, and Distribution . . . . .	9,672,234	—
Cogeneration and Waste Heat Recovery . . . . .	—	—
Energy End Use . . . . .	310,765	—
Transportation and Offroad Vehicles . . . . .	2,678	—
Other Projects . . . . .	846,415	19,596
<b>Reducing Methane and Nitrous Oxide Emissions . . . . .</b>	<b>13,866</b>	<b>3,940,752</b>
Waste Treatment and Disposal (Methane) . . . . .	13,158	3,760,544
Agriculture (Methane and Nitrous Oxide) . . . . .	—	—
Oil and Natural Gas Systems and Coal Mining (Methane) . . . . .	708	180,208
<b>Carbon Sequestration . . . . .</b>	<b>9,088</b>	<b>—</b>
<b>Halogenated Substances . . . . .</b>	<b>—</b>	<b>—</b>
<b>Total . . . . .</b>	<b>10,855,046</b>	<b>3,960,348</b>

— = none reported.

Notes: No reductions of nitrous oxide emissions were reported on Form EIA-1605EZ for 2001. Table excludes data submitted in confidential reports.

Source: Energy Information Administration, Form EIA-1605EZ.

**Table 40. Number of Projects Reported on Form EIA-1605EZ Associated with Other Federal Voluntary Programs, Data Years 1994-2001**

<b>Voluntary Program</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
Climate Challenge . . . . .	106	127	117	124	129	114	111	97
Landfill Methane Outreach Program . . .	—	—	2	2	34	40	42	44
Climate Wise Recognition Program . . . .		3	5	12	25	25	12	1
Energy STAR Buildings Program . . . . .	—	—	—	—	—	—	—	6
Coalbed Methane Outreach Program . .	—	—	1	1	2	3	—	—
Natural Gas STAR . . . . .	5	5	8	3	—	—	—	—
Other . . . . .	5	17	22	21	26	20	19	32
<b>Total . . . . .</b>	<b>116</b>	<b>152</b>	<b>155</b>	<b>163</b>	<b>216</b>	<b>202</b>	<b>184</b>	<b>180</b>

— = none reported.

Notes: Totals may not equal sum of components, because some projects are associated with more than one voluntary program. Table excludes data submitted in confidential reports.

Source: Energy Information Administration, Form EIA-1605EZ.

