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## Emissions of Greenhouse Gases in the United States 2009

**Table 18. U.S. methane emissions from energy sources, 1990-2009**  
 (million metric tons carbon dioxide equivalent)

Source	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009
Natural gas systems										
Production	39.9	42.7	46.9	50.2	50.9	51.6	52.6	54.6	57.3	57.8
Processing	16.2	18.0	17.9	15.7	16.2	15.9	15.7	16.6	16.3	16.5
Transmission and storage	52.6	53.7	60.4	59.6	58.5	58.3	56.2	60.1	60.2	58.3
Distribution	35.8	40.0	44.0	46.0	47.7	46.9	50.7	50.2	50.4	50.4
<i>Natural gas systems subtotal</i>	<i>144.4</i>	<i>154.3</i>	<i>169.1</i>	<i>171.5</i>	<i>173.2</i>	<i>172.7</i>	<i>175.1</i>	<i>181.4</i>	<i>184.2</i>	<i>183.0</i>
Coal mining										
Surface	11.6	12.3	13.5	13.8	14.3	14.7	15.5	15.3	15.7	14.3
Underground	90.1	70.5	60.9	56.0	57.1	55.5	55.9	55.7	66.4	71.7
<i>Coal mining subtotal</i>	<i>101.7</i>	<i>82.7</i>	<i>74.4</i>	<i>69.8</i>	<i>71.4</i>	<i>70.2</i>	<i>71.4</i>	<i>71.0</i>	<i>82.1</i>	<i>86.0</i>
Petroleum systems										
Refineries	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6
Exploration and production	31.6	28.2	25.0	24.4	23.3	22.3	21.9	21.8	21.3	22.8
Crude oil transportation	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<i>Petroleum systems subtotal</i>	<i>32.4</i>	<i>29.0</i>	<i>25.8</i>	<i>25.2</i>	<i>24.1</i>	<i>23.0</i>	<i>22.8</i>	<i>22.6</i>	<i>22.1</i>	<i>23.5</i>
Stationary combustion	9.1	8.8	8.1	7.7	7.9	7.9	7.4	7.8	8.1	7.8
Mobile sources	5.5	5.1	4.2	3.4	3.4	3.2	3.1	3.0	2.8	2.7
<b>Total energy sources</b>	<b>293.1</b>	<b>279.9</b>	<b>281.7</b>	<b>277.7</b>	<b>280.0</b>	<b>277.0</b>	<b>279.8</b>	<b>285.8</b>	<b>299.3</b>	<b>303.0</b>

Note: Totals may not equal sum of components due to independent rounding.