

The U.S. Inventory of Greenhouse Gas Emissions and Sinks:

Fast Facts

U.S. Greenhouse Gas Emissions and Sinks (Tg CO₂ Equivalents)

Gas/Source	U.S. Greenhouse Gas Emissions and Sinks (Tg CO ₂ Equivalents)																Change from 1990 to 2005	
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Absolute	Percent
CO₂	5,061.6	5,016.2	5,111.3	5,240.3	5,333.5	5,384.6	5,566.8	5,640.6	5,678.5	5,754.8	5,940.0	5,843.0	5,892.7	5,952.5	6,064.3	6,089.5	1,027.9	20.3%
Fossil Fuel Combustion	4,724.1	4,682.9	4,786.3	4,912.9	4,986.7	5,030.0	5,218.1	5,277.5	5,306.3	5,377.9	5,584.9	5,511.7	5,557.2	5,624.5	5,713.0	5,751.2	1,027.1	21.7%
Non-Energy Use of Fuels	117.3	123.5	116.5	119.5	130.9	133.2	132.7	140.5	153.5	161.2	141.0	131.4	135.3	131.3	150.2	142.4	25.1	21.4%
Cement Manufacture	33.3	32.5	32.8	34.6	36.1	36.8	37.1	38.3	39.2	40.0	41.2	41.4	42.9	43.1	45.6	45.9	12.6	38.0%
Iron and Steel Production	84.9	75.9	73.4	69.0	73.2	73.3	67.4	71.7	67.4	63.5	65.1	57.9	54.6	53.4	51.3	45.2	(39.7)	(46.7)%
Natural Gas Systems	33.7	32.8	32.2	33.4	33.5	33.8	31.5	31.3	29.3	30.3	29.4	28.8	29.6	28.4	28.2	28.2	(5.5)	(16.4)%
Municipal Solid Waste Combustion	10.9	12.5	12.6	13.4	14.0	15.7	17.0	17.6	17.0	17.5	17.9	18.3	18.5	19.5	20.1	20.9	10.0	91.0%
Ammonia Manufacture and Urea Application	19.3	19.2	20.0	20.4	21.1	20.5	20.3	20.7	21.9	20.6	19.6	16.7	17.8	16.2	16.9	16.3	(3.0)	(15.5)%
Lime Manufacture	11.3	11.1	11.4	11.7	12.1	12.8	13.5	13.7	14.0	13.5	13.3	12.9	12.3	13.0	13.7	13.7	2.4	21.2%
Limestone and Dolomite Use	5.5	5.0	4.9	4.9	5.5	7.4	7.8	7.2	7.4	8.1	6.0	5.7	5.9	4.7	6.7	7.4	1.9	33.7%
Soda Ash Manufacture and Consumption	4.1	4.0	4.1	4.0	4.0	4.3	4.2	4.4	4.3	4.2	4.2	4.1	4.1	4.1	4.2	4.2	0.1	2.1%
Aluminum Production	6.8	6.9	6.8	6.2	5.5	5.7	6.0	6.0	6.2	6.3	6.1	4.4	4.5	4.5	4.2	4.2	(2.6)	(38.4)%
Petrochemical Production	2.2	2.3	2.4	2.6	2.7	2.8	2.8	2.9	3.0	3.1	3.0	2.8	2.9	2.8	2.9	2.9	0.7	30.5%
Titanium Dioxide Production	1.3	1.3	1.5	1.6	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.3	1.9	0.6	46.9%
Ferroalloy Production	2.2	1.9	2.0	1.9	2.0	2.0	2.1	2.2	2.2	2.2	1.9	1.5	1.3	1.3	1.4	1.4	(0.8)	(35.3)%
Phosphoric Acid Production	1.5	1.4	1.5	1.3	1.5	1.5	1.6	1.5	1.6	1.5	1.4	1.3	1.3	1.4	1.4	1.4	(0.1)	(9.5)%
Carbon Dioxide Consumption	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.8	1.0	1.3	1.2	1.3	(0.1)	(6.5)%
Zinc Production	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.0	0.9	0.5	0.5	0.5	(0.5)	(51.0)%
Lead Production	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	(0.0)	(7.2)%
Silicon Carbide Production and Consumption	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	(0.2)	(41.6)%
Land Use, Land-Use Change, and Forestry (Sink) ^a	(712.8)	(793.0)	(794.5)	(765.3)	(833.9)	(828.8)	(832.9)	(862.3)	(808.6)	(782.2)	(756.7)	(767.5)	(811.9)	(811.9)	(824.8)	(828.5)	(115.7)	16.2%
International Bunker Fuels ^b	113.7	120.1	109.9	99.8	97.7	100.6	102.2	109.8	114.5	105.1	101.1	97.6	89.1	83.7	97.2	97.2	(16.5)	(14.5)%
Wood Biomass and Ethanol Consumption ^b	219.3	220.1	230.5	225.7	232.2	236.8	241.2	236.5	218.1	222.4	228.3	203.2	204.4	209.6	224.8	206.5	(12.9)	(5.9)%
CH₄	609.1	604.4	611.0	597.1	606.6	598.7	597.3	580.7	569.6	562.0	563.7	547.7	549.7	549.2	540.3	539.3	(69.8)	(11.5)%
Landfills	161.0	161.6	166.1	165.3	163.4	157.1	153.4	146.5	138.9	135.4	131.9	127.6	130.4	134.9	132.1	132.0	(29.0)	(18.0)%
Enteric Fermentation	115.7	114.9	117.2	116.6	118.1	120.6	118.2	116.1	114.5	114.6	113.5	112.5	112.6	113.0	110.5	112.1	(3.6)	(3.1)%
Natural Gas Systems	124.5	125.7	126.1	127.5	128.8	128.1	130.2	128.5	125.8	121.7	126.6	125.4	125.0	123.7	119.0	111.1	(13.3)	(10.7)%
Coal Mining	81.9	79.0	77.0	65.1	65.2	66.5	63.4	62.8	62.8	58.7	55.9	55.5	52.0	52.1	54.5	52.4	(29.5)	(36.0)%
Manure Management	30.9	32.2	31.1	31.8	34.1	35.1	33.7	35.4	38.7	38.3	38.7	40.1	41.1	40.5	39.7	41.3	10.4	33.7%
Petroleum Systems	34.4	34.4	33.2	32.2	31.7	31.1	30.8	30.3	29.7	28.5	27.8	27.4	26.8	25.8	25.4	28.5	(6.0)	(17.3)%
Wastewater Treatment	24.8	25.2	25.7	25.7	25.5	25.1	25.7	26.5	26.5	26.6	26.4	25.9	25.8	25.6	25.7	25.4	0.6	2.5%
Forest Land Remaining Forest Land	7.1	2.6	4.1	3.5	8.0	4.0	11.1	4.9	3.9	9.0	14.0	6.0	10.4	8.1	6.9	11.6	4.5	63.7%
Stationary Combustion	8.0	8.2	8.4	8.0	7.8	7.8	8.1	7.5	6.9	7.0	7.4	6.8	6.8	7.0	7.1	6.9	(1.1)	(13.5)%
Rice Cultivation	7.1	7.0	7.9	7.0	8.2	7.6	7.0	7.5	7.9	8.3	7.5	7.6	6.8	6.9	7.6	6.9	(0.2)	(3.2)%
Abandoned Underground Coal Mines	6.0	6.1	6.6	6.9	8.1	8.2	8.4	7.5	6.9	7.0	7.3	6.7	6.1	5.9	5.8	5.5	(0.5)	(8.0)%
Mobile Combustion	4.7	4.6	4.6	4.5	4.5	4.3	4.2	4.0	3.8	3.6	3.5	3.2	3.1	2.9	2.8	2.6	(2.1)	(44.7)%
Petrochemical Production	0.9	0.9	0.9	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.1	1.1	1.1	1.2	1.1	0.2	25.1%
Iron and Steel Production	1.3	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	(0.4)	(28.0)%
Field Burning of Agricultural Residues	0.7	0.6	0.8	0.6	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.9	0.2	24.2%
Silicon Carbide Production and Consumption	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	(0.0)	(66.7)%
Ferroalloy Production	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	(0.0)	(43.0)%
International Bunker Fuels ^b	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	(0.1)	(34.9)%
N₂O	482.0	484.0	477.3	519.6	487.2	484.2	546.8	506.0	528.8	472.7	499.8	502.5	479.2	459.8	445.2	468.6	(13.4)	(2.8)%
Agricultural Soil Management	366.9	367.2	358.8	396.5	359.2	353.4	413.1	377.6	405.0	350.0	376.8	389.0	366.1	350.2	338.8	365.1	(1.8)	(0.5)%
Mobile Combustion	43.7	45.8	48.8	50.9	52.6	53.7	54.4	55.1	55.1	54.3	53.2	49.7	47.1	43.8	41.2	38.0	(5.7)	(13.1)%
Nitric Acid Production	17.8	17.8	18.3	18.6	19.6	19.9	20.7	21.2	20.9	20.1	19.6	15.9	17.2	16.7	16.0	15.7	(2.2)	(12.1)%
Stationary Combustion	12.3	12.2	12.4	12.7	12.8	12.8	13.4	13.5	13.4	13.4	14.0	13.5	13.4	13.7	13.9	13.8	1.5	12.2%
Manure Management	8.6	9.0	8.7	9.1	9.0	9.0	8.7	9.0	9.2	9.2	9.6	9.8	9.7	9.3	9.4	9.5	0.9	10.3%
Wastewater Treatment	6.4	6.5	6.6	6.7	7.0	6.9	7.0	7.1	7.3	7.5	7.6	7.6	7.7	7.8	7.9	8.0	1.6	25.6%
Adipic Acid Production	15.2	14.8	13.1	14.0	15.0	17.2	17.0	10.3	6.0	5.5	6.0	4.9	5.9	6.2	5.7	6.0	(9.2)	(60.7)%
Settlements Remaining Settlements	5.1	5.2	5.3	5.5	5.7	5.5	5.7	5.7	5.7	5.8	5.6	5.5	5.6	5.8	6.0	5.8	0.7	13.1%
N ₂ O Product Usage	4.3	4.2	3.9	4.5	4.5	4.5	4.5	4.8	4.8	4.8	4.8	4.8	4.3	4.3	4.3	4.3	(0.0)	(0.4)%
Forest Land Remaining Forest Land	0.8	0.3	0.5	0.5	0.9	0.6	1.3	0.8	0.7	1.3	1.7	1.0	1.4	1.2	1.1	1.5	0.8	97.6%
Field Burning of Agricultural Residues	0.4	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.1	36.2%
Municipal Solid Waste Combustion	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	(0.1)	(15.0)%
International Bunker Fuels ^b	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	(0.1)	(8.5)%
HFCs, PFCs, and SF₆	89.3	81.0	86.3	87.5	91.9	103.5	120.5	129.2	142.7	141.0	143.8	133.8	143.0	142.7	153.9	163.0	73.7	82.5%
Substitution of Ozone Depleting Substances	0.3	0.6	2.9	7.6	15.1	32.2	44.9	57.4	65.5	73.1	80.9	88.6	96.9	105.5	114.5	123.3	123.0	36,899.1%
HCFC-22 Production	35.0	30.8	34.9	31.8	31.6	27.0	31.1	30.0	40.1	30.4	29.8	19.8	19.8	12.3	15.6	16.5	(18.4)	(52.7)%
Electrical Transmission and Distribution	27.1	26.0	25.9	25.1	23.7	21.8	19.9	18.3	15.5	15.9	15.2	15.1	14.3	13.8	13.6	13.2	(13.9)	(51.3)%
Semiconductor Manufacture	2.9	2.9	2.9	3.6	4.0	5.0	5.5	6.3	7.1	7.2	6.3	4.5	4.4	4.3	4.7	4.3	1.4	47.7%
Aluminum Production	18.5	15.6	14.3	13.7	12.1	11.8	12.4	10.8	8.6	8.5	8.6	3.5	5.2	3.8	2.8	3.0	(15.6)	(84.1)%
Magnesium Production and Processing	5.4	5.1	5.4	5.5	5.4	5.6	6.6	6.4	5.8	5.9	3.0	2.4	2.4	2.9	2.6	2.7	(2.8)	(50.9)%
Total	6,242.0	6,185.6	6,286.0	6,444.4	6,519.2	6,571.0	6,831.4	6,856.4	6,919.6	6,930.5	7,147.2	7,027.0	7,064.6	7,104.2	7,203.7	7,260.4	1,018.4	16.3%
Net Emissions (Sources and Sinks)	5,529.2	5,392.6	5,491.5	5,679.1	5,685.3	5,742.2	5,998.5	5,994.1	6,111.0	6,148.2	6,390.5	6						

The U.S. Inventory of Greenhouse Gas Emissions and Sinks: Reference Tables and Conversions

Global Warming Potentials (100 Year Time Horizon)

Gas	GWP	
	SAR ^a	TAR ^b
Carbon dioxide (CO ₂)	1	1
Methane (CH ₄) [*]	21	23
Nitrous oxide (N ₂ O)	310	296
HFC-23	11,700	12,000
HFC-125	2,800	3,400
HFC-134a	1,300	1,300
HFC-143a	3,800	4,300
HFC-152a	140	120
HFC-227ea	2,900	3,500
HFC-236fa	6,300	9,400
HFC-4310mee	1,300	1,500
CF ₄	6,500	5,700
C ₂ F ₆	9,200	11,900
C ₄ F ₁₀	7,000	8,600
C ₆ F ₁₄	7,400	9,000
SF ₆	23,900	22,200

Global Warming Potential (GWP) is defined as the cumulative radiative forcing effects of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to a reference gas. The GWP-weighted emissions of direct greenhouse gases in the U.S. Inventory are presented in terms of equivalent emissions of carbon dioxide (CO₂), using units of teragrams of carbon dioxide equivalents (Tg CO₂ Eq.).

Conversion:

$$\text{Tg} = 10^9 \text{ kg} = 10^6 \text{ metric tons} \\ = 1 \text{ million metric tons}$$

The molecular weight of carbon is 12, and the molecular weight of oxygen is 16; therefore, the molecular weight of CO₂ is 44 (i.e., 12 + [16 × 2]), as compared to 12 for carbon alone. Thus, the weight ratio of carbon to carbon dioxide is 12/44.

Conversion from gigagrams of gas to teragrams of carbon dioxide equivalents:

$$\text{Tg CO}_2 \text{ Eq.} = \left(\frac{\text{Gg}}{\text{of gas}} \right) \times (\text{GWP}) \times \left(\frac{\text{Tg}}{1,000 \text{ Gg}} \right)$$

^a IPCC Second Assessment Report (1996)

^b IPCC Third Assessment Report (2001)

* The methane GWP includes the direct effects and those indirect effects due to the production of tropospheric ozone and stratospheric water vapor. The indirect effect due to the production of CO₂ is not included.

Note: GWP values from the IPCC Second Assessment Report are used in accordance with UNFCCC guidelines.

CO₂ Emissions from Fossil Fuel Combustion

$$= \text{Fuel Combusted} \times \text{Carbon Content Coefficient} \times \text{Fraction Oxidized} \times (44/12)$$

May include adjustments for carbon stored in fossil fuel-based products, emissions from international bunker fuels, or emissions from territories.

Carbon Intensity of Different Fuel Types

The amount of carbon in fossil fuels per unit of energy content varies significantly by fuel type. For example, coal contains the highest amount of carbon per unit of energy, while petroleum has about 25 percent less carbon than coal, and natural gas about 45 percent less.

Converting Various Physical Units to Energy Units

The values in the following table provide conversion factors from physical units to energy equivalent units and from energy units to carbon contents. These factors can be used as default factors, if local data are not available.

Conversion Factors to Energy Units (Heat Equivalents) Heat Contents and Carbon Content Coefficients of Various Fuel Types

Fuel Type	Heat Content	Carbon (C) Content Coefficients	Carbon Dioxide (CO ₂) per Physical Unit
Solid Fuels	Million Btu/Metric Ton	kg C/Million Btu	kg CO₂/Metric Ton
Anthracite Coal	20.48	28.26	2,122.0
Bituminous Coal	21.67	25.49	2,025.6
Sub-bituminous Coal	15.55	26.48	1,509.7
Lignite	11.67	26.30	1,125.6
Coke	22.50	31.00	2,557.0
Unspecified Coal	22.68	25.34	2,106.9
Gas Fuels	Btu/Cubic Foot	kg C/Million Btu	kg CO₂/Cubic Foot
Natural Gas	1,030	14.47	0.0546
Liquid Fuels	Million Btu/Petroleum Barrel	kg C/Million Btu	kg CO₂/Petroleum Barrel
Crude Oil	5.80	20.33	432.3
Natural Gas Liquids and LRGs	3.72	16.99	231.9
Motor Gasoline	5.22	19.33	369.8
Aviation Gasoline	5.05	18.87	349.3
Kerosene	5.67	19.72	410.0
Jet Fuel	5.67	19.33	401.9
Distillate Fuel Oil	5.83	19.95	426.1
Residual Fuel Oil	6.29	21.49	495.4
Naphtha for Feedstock	5.25	18.14	349.1
Petroleum Coke	6.02	27.85	615.2
Other Oil for Feedstock	5.83	19.95	426.1
Special Naphthas	5.25	19.86	382.2
Lubricants	6.07	20.24	450.1
Waxes	5.54	19.81	402.2
Asphalt & Road Oil	6.64	20.62	501.7
Still Gas	6.00	17.51	385.2
Misc. Products	5.80	20.33	432.0

Note: For fuels with variable heat contents and carbon content coefficients, 2005 U.S. average values are presented. All factors are presented in gross calorific values (GCV) (i.e., higher heating values). LRG = Liquid Refinery Gas. Miscellaneous products includes all finished products not otherwise classified, (e.g., aromatic extracts and tars, absorption oils, ram-jet fuel, synthetic natural gas, naphtha-type jet fuel, and specialty oils).

Guide to Metric Unit Prefixes

Prefix/Symbol	Factor	
Tera (T)	10 ¹²	1,000,000,000,000
Giga (G)	10 ⁹	1,000,000,000
Mega (M)	10 ⁶	1,000,000
Kilo (k)	10 ³	1,000
Hecto (h)	10 ²	100
Deca (da)	10 ¹	10
—	10 ⁰	1
Deci (d)	10 ⁻¹	.1
Centi (c)	10 ⁻²	.01
Milli (m)	10 ⁻³	.001
Micro (μ)	10 ⁻⁶	.000001
Nano (n)	10 ⁻⁹	.000000001
Pico (p)	10 ⁻¹²	.000000000001

Unit Conversions

1 pound	= 0.454 kilograms	= 16 ounces
1 kilogram	= 2.205 pounds	= 35.27 ounces
1 short ton	= 0.9072 metric tons	= 2,000 pounds
1 metric ton	= 1.1023 short tons	= 1,000 kilograms
1 cubic foot	= 0.02832 cubic meters	= 28.3168 liters
1 cubic meter	= 35.315 cubic feet	= 1,000 liters
1 U.S. gallon	= 3.78541 liters	= 0.03175 barrels = 0.02381 barrels petroleum
1 liter	= 0.2642 U.S. gallons	= 0.0084 barrels = 0.0063 barrels petroleum
1 barrel	= 31.5 U.S. gallons	= 119 liters = 0.75 barrels petroleum
1 barrel petroleum	= 42 U.S. gallons	= 159 liters
1 foot	= 0.3048 meters	= 12 inches
1 meter	= 3.28 feet	= 39.37 inches
1 mile	= 1.609 kilometers	= 5,280 feet
1 kilometer	= 0.6214 miles	= 3,280.84 feet
1 square mile	= 2.590 square kilometers	= 640 acres
1 square kilometer	= 0.386 square miles	= 100 hectares
1 acre	= 43,560 square feet	= 0.4047 hectares = 4,047 square meters

Energy Conversions

The common energy unit used in international reports of greenhouse gas emissions is the joule. A joule is the energy required to move an object one meter with the force of one Newton. A terajoule (TJ) is one trillion (10¹²) joules. A British thermal unit (Btu, the customary U.S. energy unit) is the quantity of heat required to raise the temperature of one pound of water one degree Fahrenheit at or near 39.2 Fahrenheit.

$$1 \text{ TJ} = 2.388 \times 10^{11} \text{ calories} \\ 23.88 \text{ metric tons of crude oil equivalent} \\ 9.478 \times 10^8 \text{ Btu} \\ 277,800 \text{ kilowatt-hours}$$

Energy Units

Btu	British thermal unit	1 Btu
MBtu	Thousand Btu	1 × 10 ³ Btu
MMBtu	Million Btu	1 × 10 ⁶ Btu
BBtu	Billion Btu	1 × 10 ⁹ Btu
TBtu	Trillion Btu	1 × 10 ¹² Btu
QBtu	Quadrillion Btu	1 × 10 ¹⁵ Btu

Density Conversions

Methane (Natural Gas)	1 cubic meter	= 35.32 cubic feet	= 0.676 kilograms
Carbon dioxide	1 cubic meter	= 35.32 cubic feet	= 1.854 kilograms
Natural gas liquids	1 metric ton	= 11.60 barrels	= 1,844.20 liters
Unfinished oils	1 metric ton	= 7.46 barrels	= 1,186.04 liters
Alcohol	1 metric ton	= 7.94 barrels	= 1,262.36 liters
Liquefied petroleum gas	1 metric ton	= 11.60 barrels	= 1,844.20 liters
Aviation gasoline	1 metric ton	= 8.90 barrels	= 1,415.00 liters
Naphtha jet fuel	1 metric ton	= 8.27 barrels	= 1,314.82 liters
Kerosene jet fuel	1 metric ton	= 7.93 barrels	= 1,260.72 liters
Motor gasoline	1 metric ton	= 8.53 barrels	= 1,356.16 liters
Kerosene	1 metric ton	= 7.73 barrels	= 1,228.97 liters
Naphtha	1 metric ton	= 8.22 barrels	= 1,306.87 liters
Distillate	1 metric ton	= 7.46 barrels	= 1,186.04 liters
Residual oil	1 metric ton	= 6.66 barrels	= 1,058.85 liters
Lubricants	1 metric ton	= 7.06 barrels	= 1,122.45 liters
Bitumen	1 metric ton	= 6.06 barrels	= 963.46 liters
Waxes	1 metric ton	= 7.87 barrels	= 1,251.23 liters
Petroleum coke	1 metric ton	= 5.51 barrels	= 876.02 liters
Petrochemical feedstocks	1 metric ton	= 7.46 barrels	= 1,186.04 liters
Special naphtha	1 metric ton	= 8.53 barrels	= 1,356.16 liters
Miscellaneous products	1 metric ton	= 8.00 barrels	= 1,271.90 liters

Note: Gas densities are at room temperature and pressure.

For more information on calculating CO₂ emissions per kWh, download eGRID at: <http://www.epa.gov/cleanenergy/egrid>

For other related information, see: <http://www.epa.gov/climatechange>
<http://unfccc.int>

Source for all data: U.S. Inventory of Greenhouse Gas Emissions and Sinks 1990-2005 (EPA 2007)

Download the Inventory at: <http://www.epa.gov/climatechange/emissions/usinventoryreport.html>