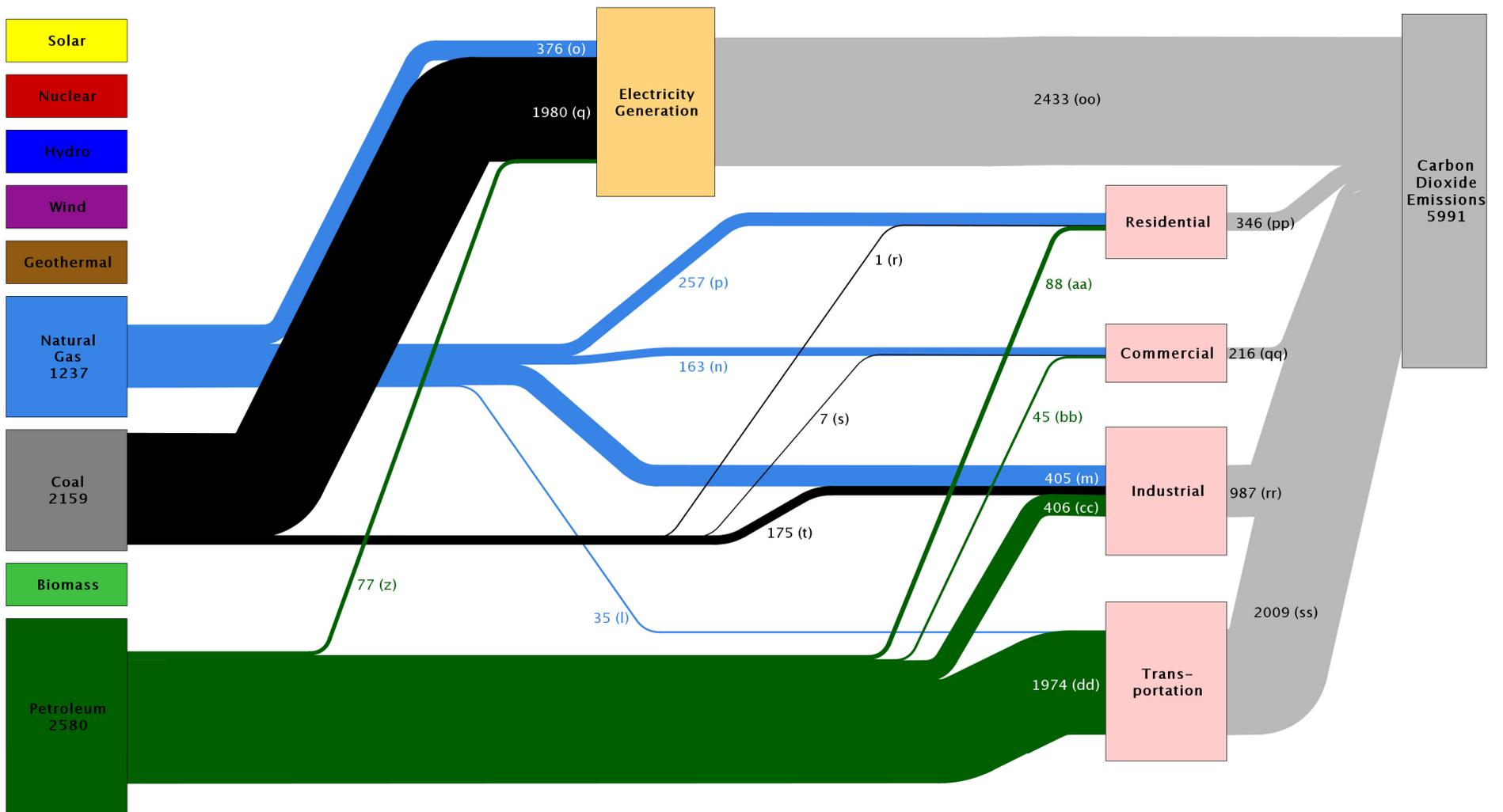


Estimated U.S. Carbon Dioxide Emissions in 2007: ~5991 Million Metric Tons



Source: LLNL 2009. Data is based on DOE/EIA-0384(2008), June 2009. If this information or a reproduction of it is used, credit must be given to the Lawrence Livermore National Laboratory and the Department of Energy, under whose auspices the work was performed. Carbon embodied in industrial and commercial products such as plastics is not shown. The flow of petroleum to electricity production includes both petroleum fuels and the plastics component of municipal solid waste. The combustion of biologically derived fuels is assumed to have zero net carbon emissions - lifecycle emissions associated with biofuels are accounted for in the Industrial and Commercial sectors. Totals may not equal sum of components due to independent rounding. LLNL-MI-411167

U.S. Carbon Flowchart 2007
Lawrence Livermore National Laboratory
Release Notes

All carbon flow statistics are quoted from the U.S. Department of Energy's Energy Information Administration. These statistics can be found in the Annual Energy Review 2008, report number DOE/EIA-0384(2008). The original document can be found at <http://www.eia.doe.gov/emeu/aer/contents.html>

- | | |
|--|---|
| (a) Emissions from Solar Energy in the Residential Sector
(No emissions, not shown) | (k) Emissions from Geothermal Energy in the Industrial Sector
(No emissions, not shown) |
| (b) Emissions from Solar Energy in the Production of Electricity
(No emissions, not shown) | (l) Emissions from Natural Gas in the Transportation Sector
Table 12.3, Column 5 (Natural Gas)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (c) Emissions from Nuclear Energy in the Production of Electricity
(No emissions, not shown) | (m) Emissions from Natural Gas in the Industrial Sector
Table 12.3, Column 4 (Natural Gas)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (d) Emissions from Hydropower in the Production of Electricity
(No emissions, not shown) | (n) Emissions from Natural Gas in the Commercial Sector
Table 12.3, Column 3 (Natural Gas)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (e) Emissions from Hydropower in the Industrial Sector
(No emissions, not shown) | (o) Emissions from Natural Gas in the Production of Electricity
Table 12.3, Column 7 (Natural Gas)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (f) Emissions from Hydropower in the Commercial Sector
(No emissions, not shown) | (p) Emissions from Natural Gas in the Residential Sector
Table 12.3, Column 2 (Natural Gas)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (g) Emissions from Wind Energy in the Production of Electricity
(No emissions, not shown) | (q) Emissions from Coal in the Production of Electricity
Table 12.3, Column 7 (Coal)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (h) Emissions from Geothermal Energy in the Production of Electricity
Table 12.3, Column 7 (Geothermal)
(Not shown, value is less than one million metric tons per year)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) | (r) Emissions from Coal in the Residential Sector
Table 12.3, Column 2 (Coal)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007) |
| (i) Emissions from Geothermal Energy in the Residential Sector
(No emissions, not shown) | |
| (j) Emissions from Geothermal Energy in the Commercial Sector
(No emissions, not shown) | |

- (s) Emissions from Coal in the Commercial Sector
Table 12.3, Column 3 (Coal)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007)
- (t) Emissions from Coal in the Industrial Sector
Table 12.3, Column 3 (Coal)
+ Table 12.3 Column 3 (Coal Coke Net Imports)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007)
- (u) Emissions from Biomass in the Production of Electricity
(No emissions, not shown, see chart footnote)
- (v) Emissions from Biomass in the Residential Sector
(No emissions, not shown, see chart footnote)
- (w) Emissions from Biomass in the Commercial Sector
(No emissions, not shown, see chart footnote)
- (x) Emissions from Biomass in the Industrial Sector
(No emissions, not shown, see chart footnote)
- (y) Emissions from Biomass in the Transportation Sector
(No emissions, not shown, see chart footnote)
- (z) Emissions from Petroleum in the Production of Electricity
Table 12.3, Column 7 (Petroleum)
+ Table 12.3, Column 7 (MSW)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007)
- (aa) Emissions from Petroleum in the Residential Sector
Table 12.3, Column 2 (Petroleum)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007)
- (bb) Emissions from Petroleum in the Commercial Sector
Table 12.3, Column 3 (Petroleum)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007)
- (cc) Emissions from Petroleum in the Industrial Sector
Table 12.3, Column 4 (Petroleum)
For years prior to 2007, see Emissions of Greenhouse Gases in the United States 2007, report number DOE/EIA-0573(2007)

- (dd) Emissions from Petroleum in the Transportation Sector
Table 12.3, Column 5 (Petroleum)
For years prior to 2007, see Emissions of Greenhouse Gases
in the United States 2007, report number DOE/EIA-0573(2007)
- (ee) Domestic Production of Electrical Power
(Not shown, no carbon is carried with electricity)
- (ff) Consumption of Electricity in the Transportation Sector
(Not shown, no carbon is carried with electricity)
- (gg) Consumption of Electricity in the Industrial Sector
(Not shown, no carbon is carried with electricity)
- (hh) Consumption of Electricity in the Commercial Sector
(Not shown, no carbon is carried with electricity)
- (ii) Consumption of Electricity in the Residential Sector
(Not shown, no carbon is carried with electricity)
- (jj) N/A
- (kk) N/A
- (ll) N/A
- (mm) N/A
- (nn) N/A
- (oo) Total emissions from the production of electricity
Table 12.3, Column 17 (Primary)
For years prior to 2007, see Emissions of Greenhouse Gases
in the United States 2007, report number DOE/EIA-0573(2007)
- (pp) Total emissions from the Residential Sector
Table 12.3, Column 2 (Primary)
For years prior to 2007, see Emissions of Greenhouse Gases
in the United States 2007, report number DOE/EIA-0573(2007)
- (qq) Total emissions from the Commercial Sector
Table 12.3, Column 3 (Primary)
For years prior to 2007, see Emissions of Greenhouse Gases
in the United States 2007, report number DOE/EIA-0573(2007)
- (rr) Total emissions from the Industrial Sector
Table 12.3, Column 4 (Primary)
For years prior to 2007, see Emissions of Greenhouse Gases
in the United States 2007, report number DOE/EIA-0573(2007)
- (ss) Total Emissions from the Transportation Sector
Table 12.3, Column 5 (Primary)
For years prior to 2007, see Emissions of Greenhouse Gases
in the United States 2007, report number DOE/EIA-0573(2007)