



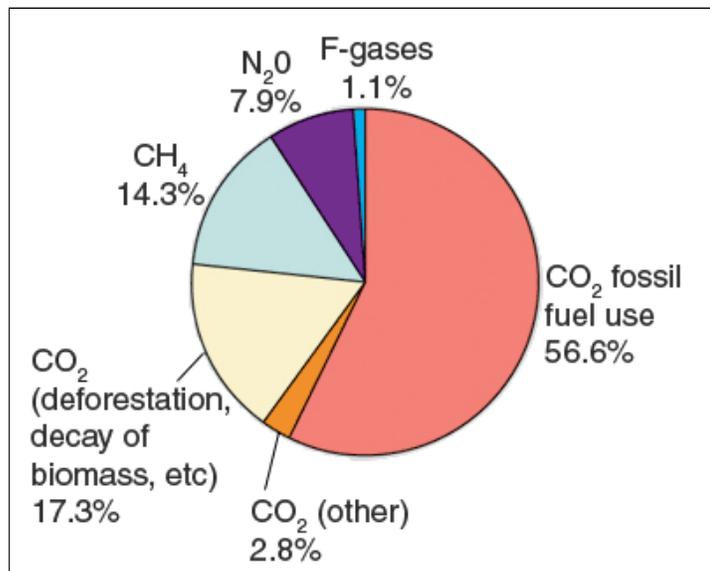
Climate Change - Greenhouse Gas Emissions

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Global Greenhouse Gas Data

Atmospheric concentrations of greenhouse gases are affected by the total amount of greenhouse gases emitted to and removed from the atmosphere around the world over time. Figure 1 shows a breakdown of global anthropogenic greenhouse gas emissions by each gas measured on a CO₂-equivalent basis.

Figure 1: Global Anthropogenic Greenhouse Gas Emissions in 2004



Reference: IPCC 4th Assessment Report: Climate Change 2007: Synthesis Report [EXIT Disclaimer](#)

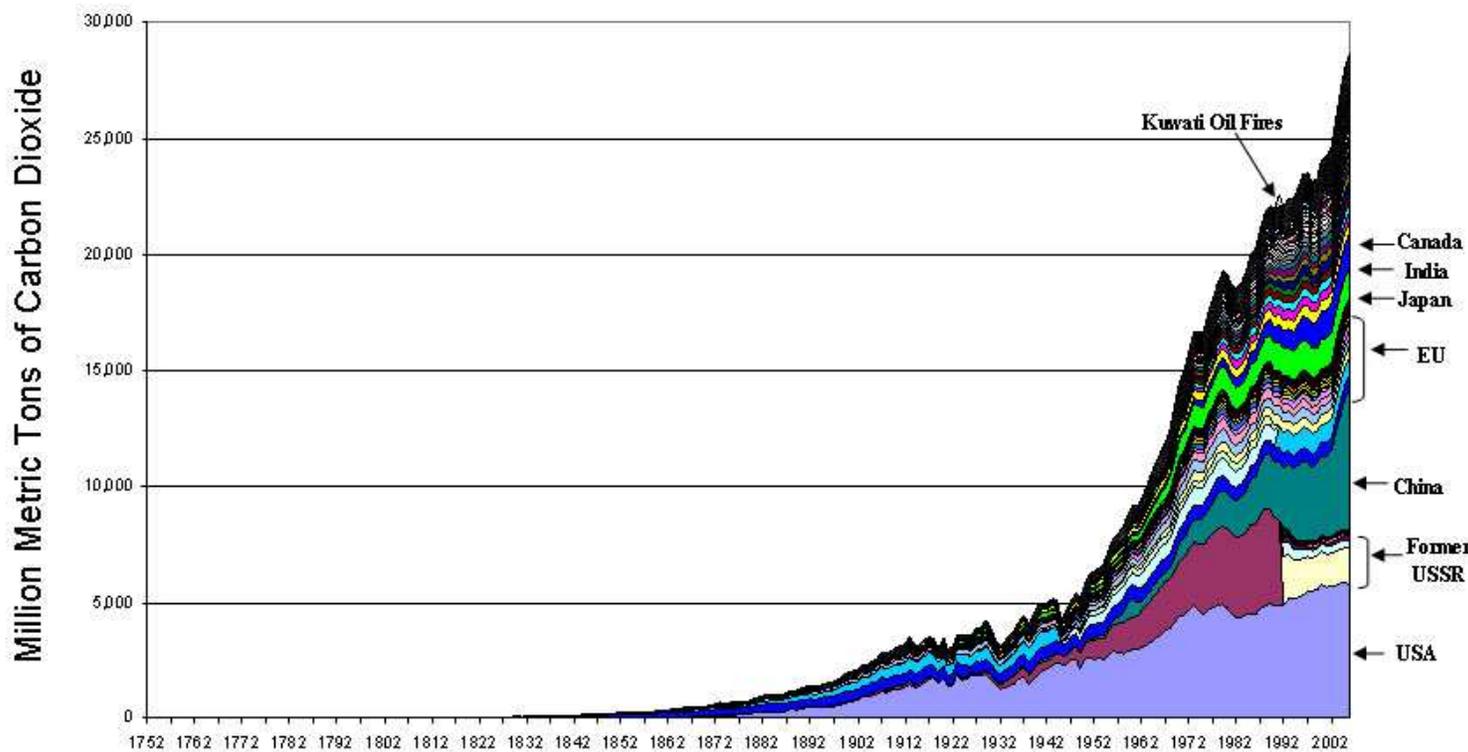
Note: Other CO₂ includes cement production and natural gas flaring.

Figure 2 presents data on the major global sources of carbon dioxide (CO₂) emissions by country, from the beginning of the Industrial Revolution to the present.

Figure 2: Global CO₂ Emissions from Fossil-Fuel Burning, Cement Manufacture, and Gas Flaring: 1752-2006

Related Links

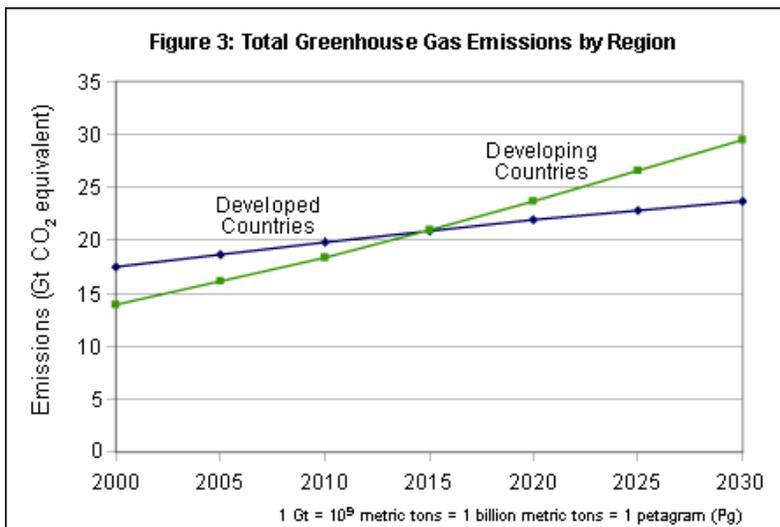
- [Carbon Dioxide Information Analysis Center](#)
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Reference: Carbon Dioxide Information Analysis Center

Subscribers to the World Resources Institute's Climate Analysis Indicators Tool (CAIT) [EXIT Disclaimer](#) can draw on existing greenhouse gas data to generate breakdowns of global emissions by year, country, source and greenhouse gas. In addition, the Intergovernmental Panel on Climate Change synthesizes existing scientific data on global fluxes of greenhouse gas emissions and removals in its [assessment reports](#) [EXIT Disclaimer](#). These reports provide global data by gas and by type of emission pathway (e.g., general type of source or sink), and include both human and natural emissions.

Figure 3 provides a projection of future greenhouse gas emissions of developed and developing countries. Total emissions from the developing world are expected to exceed those from the developed world by 2015.



Reference: (1) SGM Energy Modeling Forum EMF-21 Projections, Energy Journal Special Issue, in press, reference case CO₂ projections. (2) Non-CO₂ emissions are from EPA's Global Anthropogenic Emissions of Non-CO₂ Greenhouse Gases 1990-2020.