

Fossil Fuel Emissions Information

- Tabulations of emissions by country:
 - Distribution within country by political subunit and population density
 - Oak Ridge National Lab (Greg Marland) http://cdiac.esd.ornl.gov/authors/ marland.html
 - Andres et al (1996)
- US DoE Energy Information
 Administration
 - http://www.eia.doe.gov



GLOBAL CARBON

All the data is shown in GtC

1 Gigatonne (Gt) = 1 billion tonnes = 1×10¹⁵g = 1 Petagram (Pg)

1 kg carbon (C) = 3.664 kg carbon dioxide (CO₂)

1 GtC = 3.664 billion tonnes CO₂ = 3.664 GtCO₂

Disclaimer

The Global Carbon Budget and the information presented here are intended for those interested in learning about the carbon cycle, and how human activities are changing it. The information contained herein is provided as a public service, with the understanding that the Global Carbon Project team make no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the information.























Billions and Billions Shanghai 1991 and 2012

- Currently 7 billion people on Earth but only 1 billion use lots of energy
- Rapid development to 4 billion energy users over coming decades
- Population growth only 30% but energy growth 300% by 2100



















