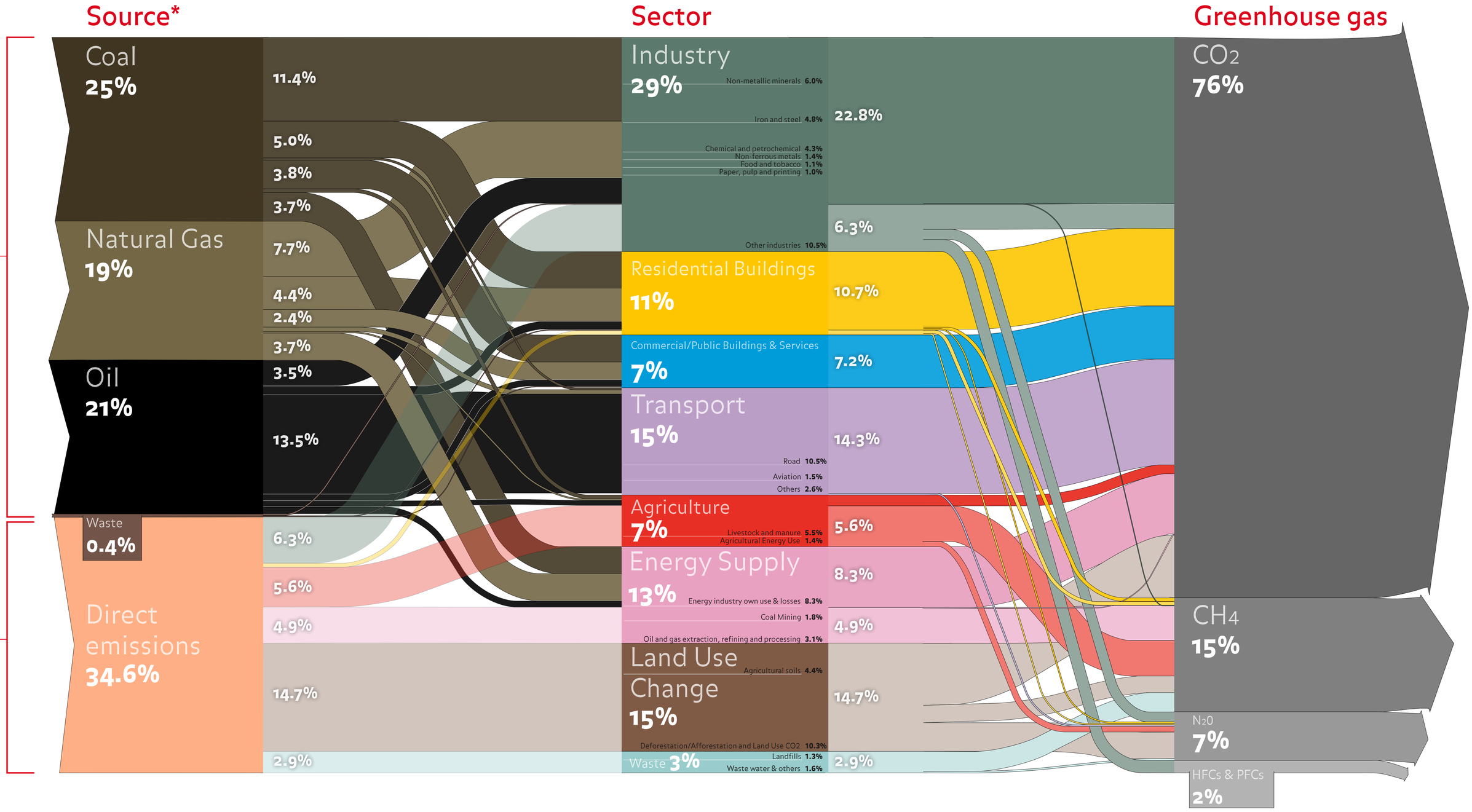
World GHG Emissions Flow Chart
2010

Total emission worldwide (2010)
48 629
MtCO2 eq



* Greenhouse gases can arise from two sources

Direct emissions (examples)

Sector: Agricultural
Cows and other livestock emit tons of methane (CH_4) by passing gas each day.

Sector: Land Use Change
Cutting down trees for logging or agriculture releases CO_2 stored in the biomass.

Sector: Waste
Organic matter in landfills emits tons of methane each year.

Fossil fuel related emissions

Burning fossil fuels (coal, natural gas and oil) in industry, residential sector, commercial & public sector, transport and energy supply.

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Analysis by Ecofys. All the data are for 2010.

The global estimate of 48 629 MtCO2 equivalent results from adding up all calculated data on sector level. All percentages relate to the total emission worldwide. The data for Land Use Change are subject to significant uncertainties. This chart is inspired by a previous chart of WRI, 2005

The following sources were used:

IEA, 2012, CO2 emissions database
Joint Research Centre, European Commission, 2011, Global Emissions EDGAR v4.2, available at http://edgar.jrc.ec.europa.eu/overview.php?v=42
CDIAC, 2012, Preliminary CO2 Emissions 2011, available at http://cdiac.ornl.gov/ftp/trends/emissions/
IEA, 2012, Energy Balances
Global Carbon Project, 2012, data abailable at http://www.globalcarbonproject.org/carbonbudget/12/data.htm

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