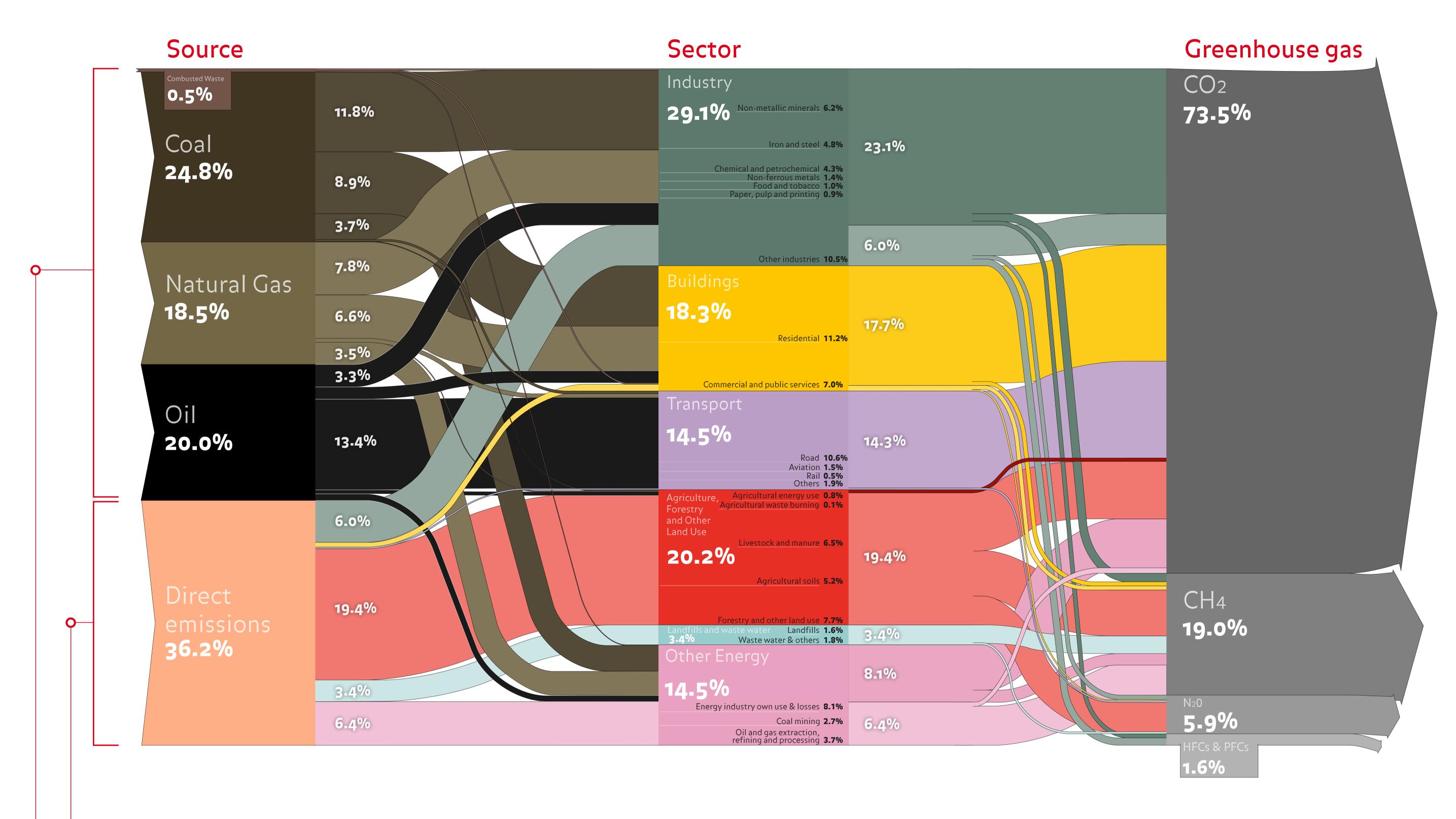
# World GHG Emissions Flow Chart

Total emissions worldwide (2012)

51,840

MTCO2 EQ



#### 1. DIRECT EMISSIONS (EXAMPLES)

## Sector: Agricultural

Cows and other livestock emit tons of methane (CH4) by passing gas each day.



# Sector: Land Use Change

Cutting down trees for logging or agriculture releases CO2 stored in the biomass.



#### Sector: Landfills

Organic matter in landfills emits tons of methane (CH4) each year.



## 2. FOSSIL FUEL RELATED EMISSIONS

### Coal

Coal is causing most emissions and is primarily burned for electricity generation and in steel and cement industry.



### Natural Gas

Natural Gas is typically used as a source of energy for heating, cooking and electricity generation.



## Oil

Oil emissions result mainly from combustion as transport fuels in cars, trucks and airplanes.







sustainable energy

Analysis by Ecofys. All the data are for 2012.
The global estimate of 51,840 MtCO2 equivalent results from adding calculated data totals for each sector, based on 2012 data updated from our previous 2010 flow chart.
All percentages represent total global emissions. The data for Forestry and Other Land Use are subject to significant uncertainties.

THE FOLLOWING SOURCES WERE USED: IEA, 2014, CO2 EMISSIONS DATABASE

IEA, 2014, CO2 EMISSIONS DATABASE

JOINT RESEARCH CENTRE, EUROPEAN COMMISSION, 2013, GLOBAL EMISSIONS EDGAR V4.2 FT2010 (OCTOBER 2013), AVAILABLE AT HTTP://EDGAR.JRC.EC.EUROPA.EU/OVERVIEW.PHP?V=42FT2010

CDIAC, 2013, PRELIMINARY CO2 EMISSIONS 2012, AVAILABLE AT HTTP://CDIAC.ORNL.GOV/FTP/TRENDS/EMISSIONS/

IEA, 2014, ENERGY BALANCES

