Sources of Green House Gases in the Atmosphere
Source: Stern Review

Figure 1 Greenhouse-gas emissions in 2000, by source

Total emissions in 2000: 42 GtCO2e.
Energy emissions are mostly CO2 (some non-CO2 in industry and other energy related).
Non-energy emissions are CO2 (land use) and non-CO2 (agriculture and waste).

Source: Prepared by Stern Review, from data drawn from World Resources Institute Climate Analysis Indicators Tool (CAIT) on-line database version 3.0.
Commissioner for Transport *Violeta Bulc* explained in her welcome address the importance of this first meeting, as the STF contributes to one of the key objectives of the European Union: *to decarbonise our economy* and to make Europe a world leader in renewable energies.

- **Decarbonisation of transport** is one objective of the Commission and supports Growth, Jobs, Democratic Change and Fairness.
- **Decarbonisation** is also one of the four core content drivers of the EU together with Digitalization, Internationalization and People.
- **Decarbonisation** must be empowered by Innovation and Investment.
Sustainable Transport Forum
1st Meeting

Opening address
Transport Commissioner Violeta Bulc

Bruxelles 29 June 2015
Growth

Democratic Change

Decarbonisation

Jobs

Fairness
Decarbonisation

Transport

People

Digitalisation

Internationalisation
INTEGRATION

Decarbonisation

INNOVATION INVESTMENTS
WG 3: End Use

Source: Ministry of Transport and Communications, Finland 2013
WG 3: End Use

Volkswagen Powertrain and Fuels Strategy
Coexistence of propulsion systems

- CO₂ neutral electricity
- Conventional electricity
- CO₂ neutral fuels (liquid, gaseous)
- Conventional fuels
- Fuel cell
- Battery electric vehicle
- Plug-In Hybrids
- Hybrids
- Internal combustion engines

Coexistence of conventional powertrains and electrified mobility
Decarbonisation of the energy carrier and higher powertrain efficiency
A portfolio of various drivetrains will fulfil the customer expectations

Source: VW, S. Schmerbeck 2014