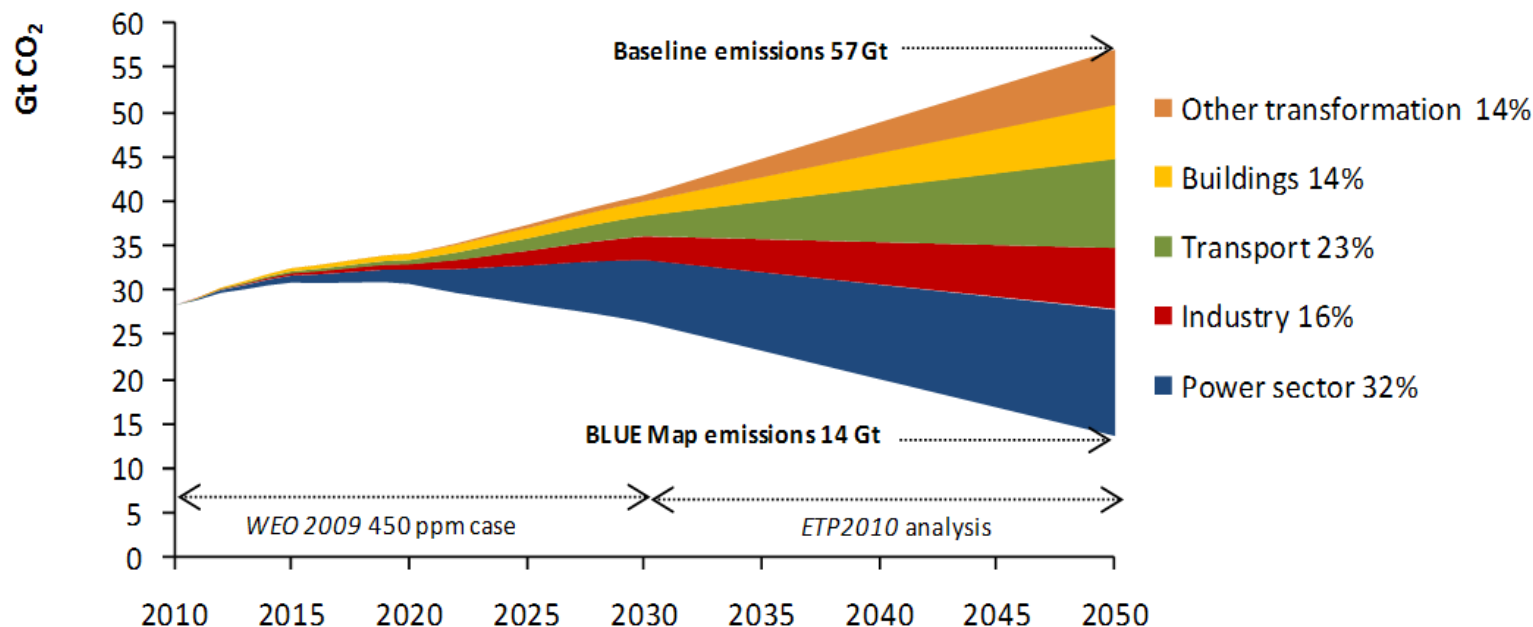# IEA Freight Truck Fuel Economy Workshop: Background and Intro

International Energy Agency
Challenge Bibendum, 20th of May 2011

The IEA BLUE Map Scenario

- **Baseline Scenario** – business-as-usual; no adoption of new energy and climate policies
- **BLUE Map Scenario** - energy-related CO_2-emissions halved by 2050 through CO_2-price and strong support policies
  - 23% of emission savings in the transport sector
    - → 20% (2.1 Gt) of this through use of sustainable biofuels (mainly advanced biofuels)
- The BLUE Map Scenario serves as basis for all IEA Technology Roadmaps

IEA Technology Roadmaps

- Roadmaps are intended to:
  - Highlight pathway(s) to reach large scale use of low-carbon technologies, consistent with *Energy Technology Perspectives 2010*
  - Focus on the key steps over the next 5-10 years, as well as long-term milestones, including:
    - Identify barriers and obstacles and how to overcome these
    - Identify key conversion pathways
    - Key RD&D gaps and how to fill them while ensuring sustainability
    - Identify market requirements and policy needs
    - Define international collaboration needs

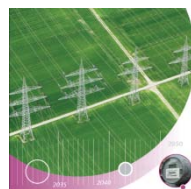 **For more information: www.iea.org/roadmaps**

- IEA Technology Roadmap - Biofuels for Transport
  - Developed under consultation of industry, governmental and research institutions as well as NGOs
  - Workshop on feedstock availability and sustainability feeds also into the upcoming Technology Roadmap on **Bioenergy for Heat and Power** (available early 2012)

Concentrated Solar Power   **Electric & Plug-in Hybrid Vehicles**   **Smart Grids**   **Solar Photovoltaic Energy**   **Wind Energy**

Biofuels Contribution to Emissions Reduction
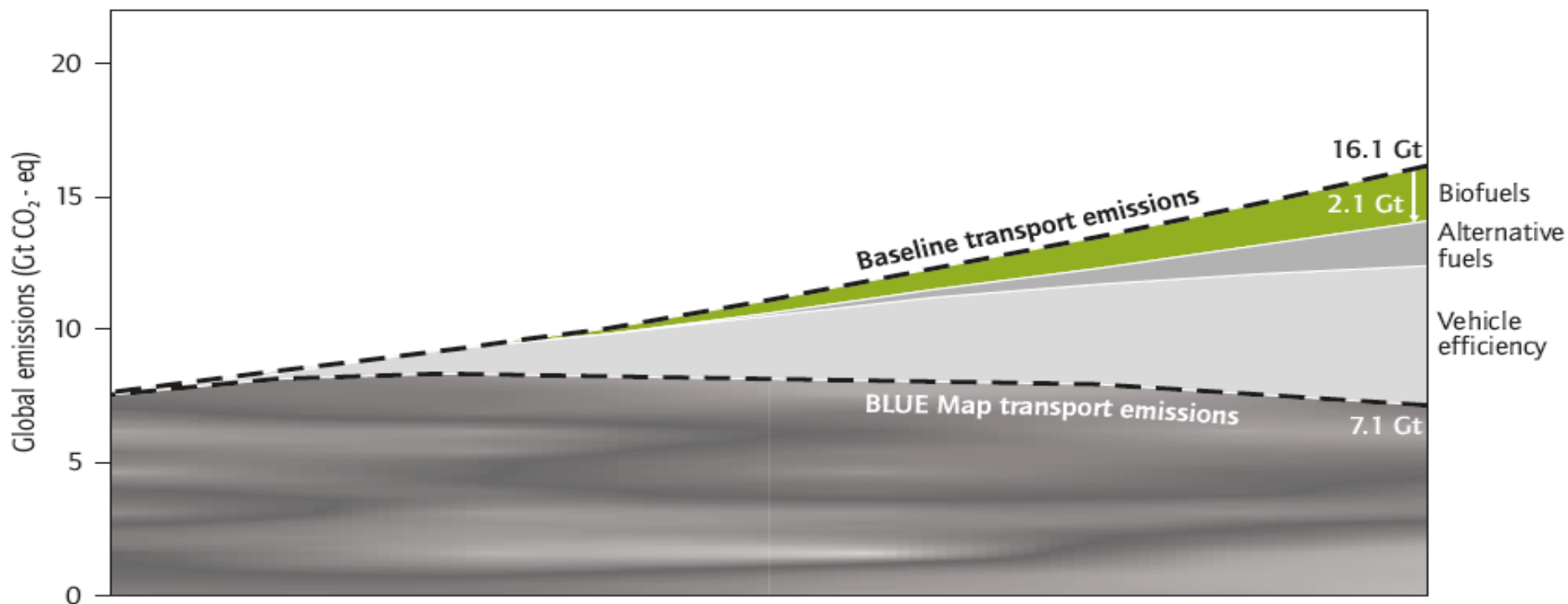
Note: Modal shifts (not included) could contribute an additional 1.8 Gt CO_2-eq. of emission reductions.

- Efficiency improvements are the most important low-cost measure to reduce transport emissions

- Biofuels can reduce global transport emissions by 2.1 Gt CO_2-eq. in 2050

- To achieve these reductions, all biofuels must provide considerable life-cycle GHG emission reductions

Policy Pathways:
the way to energy efficiency implementation now

POLICY PATHWAY
Energy Performance Certification of Buildings

Policy Pathway

Policy Pathway