



INTERNATIONAL ENERGY AGENCY

# TRANSPORT, ENERGY AND CO<sub>2</sub>

Release Autumn 2009

Moving Toward  
Sustainability

# TRANSPORT, ENERGY AND CO<sub>2</sub>

## Moving Toward Sustainability

Transport accounts for nearly one-quarter of global energy-related CO<sub>2</sub> emissions. To achieve the necessary deep cuts in greenhouse gas emissions by 2050, transport must play a significant role.

However, without strong global action, car ownership worldwide is set to triple to over two billion by 2050. Trucking activity will double and air travel could increase four-fold. These trends will lead to a doubling of transport energy use, with an even higher growth rate in CO<sub>2</sub> emissions as the planet shifts toward high-CO<sub>2</sub> synthetic fuels. How can we enable mobility without accelerating climate change?

*Transport, Energy and CO<sub>2</sub>: Moving Toward Sustainability* provides answers to this question. It finds that if we change the way we travel, adopt technologies to improve vehicle efficiency and shift to low-CO<sub>2</sub> fuels, we can move onto a different pathway where transport CO<sub>2</sub> emissions by 2050 are far below current levels, at costs that are lower than many assume. The report discusses the prospects for shifting more travel to the most efficient modes and reducing travel growth rates, improving vehicle fuel efficiency by up to 50% using cost-effective, incremental technologies, and moving toward electricity, hydrogen, and advanced biofuels to achieve a more secure and sustainable transport future. If governments implement strong policies to achieve this scenario, transport can play its role and dramatically reduce CO<sub>2</sub> emissions by 2050.

This publication is one of three new IEA end-use studies, together with industry and buildings, which look at the role of technologies and policies in transforming the way energy is used in these sectors.

---

Order from our website: **[www.iea.org/books](http://www.iea.org/books)**  
or **e-mail: [books@iea.org](mailto:books@iea.org)**

---

**Special offer!**

***Buy 3 IEA books and get a FREE electronic version of our forthcoming IEA Scoreboard 2009!\****

\*offer expires October 15<sup>th</sup> 2009

**International Energy Agency**

**9, rue de la Fédération - 75739 Paris Cedex 15 - France**

**Tel +33 1 40 57 66 90**

The Paris-based International Energy Agency is an intergovernmental body committed to advancing security of energy supply, economic growth and environmental sustainability through energy policy and technology co-operation. It was founded after the oil supply disruptions in 1973-1974 and consists of 28 industrialised countries, members of the Organisation for Economic Co-operation and Development.