



INTERNATIONAL ENERGY AGENCY

ENERGY TECHNOLOGY PERSPECTIVES

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In support of the G8 Plan of Action

Scenarios &
Strategies
to 2050

AVAILABLE SOON

ENERGY TECHNOLOGY PERSPECTIVES

Scenarios & Strategies to 2050

How much can technology contribute to securing adequate and affordable energy supplies and lower CO₂ emissions? What energy technologies hold the most promise? How long will it take?

At their 2005 summit in Gleneagles, G-8 leaders confronted these questions and decided to act with resolve and urgency. They called upon the International Energy Agency to provide advice on scenarios and strategies for a clean and secure energy future. *Energy Technology Perspectives* is a response to the G8 request.

This innovative work demonstrates how energy technologies can make a difference in a series of global scenarios to 2050. It reviews in detail the status and prospects of key energy technologies in electricity generation, buildings, industry and transport. It assesses ways the world can enhance energy security and contain growth in CO₂ emissions by using a portfolio of current and emerging technologies. Major strategic elements of a successful portfolio are energy efficiency, CO₂ capture and storage, renewables and nuclear power.

While technology does hold great promise for the future, we must act *now* if we are to unlock the potential of current and emerging technologies and reduce the impact of fossil fuel dependence on energy security and the environment. *Energy Technology Perspectives* provides detailed technology and policy insights to help policy makers craft sustainable solutions.

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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 twenty six industrialised countries, members of the Organisation for Economic Co-operation and Development.