

IEA policy analysis on RES

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Presentation outline

- Snapshot of new-look IEA website
- IEA-JREC Renewables Database
- Policy analysis on renewables
- G8 Grid integration of renewables
- Contribution of renewables to energy security
- RE Heating and Cooling

IEA Renewables data:

<http://www.iea.org/Textbase/subjectqseries/index.asp>

 **International Energy Agency**
Agence Internationale de l'Énergie

Energy Security, Growth and Sustainability
through Co-operation and Outreach

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- Climate Change
- CO₂ Emissions
- Coal
- Demand Analysis
- Electricity
- Energy Security
- Emissions Trading + CDM
- Energy Efficiency
- Energy Market Reform
- Energy Policy
- Energy Projections
- Environment
- Fusion Power
- Natural Gas
- Non-OECD Countries
- Oil
- Renewable Energy
- Sustainable Development
- Technology
- Transport

- Statistics
- Oil Market Report
- World Energy Outlook
- Energy Technology Agreements
- G8 Related Work
- Environment

[Home](#) > [By Topic](#) > Renewable Energy

Renewable Energy

Renewable energy increases diversity of energy supplies and can replace diminishing fossil fuel resources over the long run. Their use in place of fossil fuels can substantially reduce greenhouse gases and other pollutants. Growth in demand for renewable energy in industrialised countries is leading to economies of scale; such growth enables increased access by the developing world. While experts believe that many new markets could sustain even higher rates of renewable energy penetration, numerous barriers remain. The cost of renewable energy technologies remains high, although it continues to fall. Some forms of renewable energy are now competitive in some market conditions.

The deployment of renewable energy requires appropriate economic, market and regulatory instruments. The diffusion and deployment of newly developed renewable energy technologies into markets are particularly important. A key strategy for market acceleration is removing trade and investment barriers between countries with significant renewable resources. Global strategies for accelerating the market penetration and diffusion of renewable energies need to engage both developed and developing countries. Governments can employ a number of strategies to improve the competitiveness of renewable energy.

Publications and Papers

- [Renewables in Global Energy Supply \(fact sheet\) 2007](#)
- [Barriers to the Diffusion of Solar Thermal Technologies 2006](#)
- [Renewables Information 2006](#)
- [Renewable Energy – RD&D Priorities 2006](#)
- [Present and Future Use of Solar Thermal Energy as a Primary Source of Energy 2005](#)

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Related Programmes

- [Global Renewable Energy Policies and Measures Database](#)
- [NEET Initiative](#)
- [Online Data Services](#)
- [Renewables Statistics](#)
- [Technology Agreements: Renewable Energy](#)

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Additional Information

- [OPEN Energy Technology Bulletin](#)
- [Related websites](#)
- [Press releases](#)
- [Speeches](#)
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Workshops

- [Accelerating the Deployment of Renewable Energy 2007](#)
- [Integration of Renewables into Electricity Grids 2006](#)
- [International Seminar on Energy and the Forest Products Industry 2006](#)
- [Workshop on Sustainable Use, Supply and Production of Biomass in Africa 2006](#)
- [Renewable Heating and Cooling: from RD&D to Deployment 2006](#)

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Related Committees and Working Parties

- [Committee on Energy Research and Technology \(CERT\)](#)
- [Renewable Energy Working Party \(REWEP\)](#)

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Contact Information

- [Renewables Contact](#)
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JREC





South Africa

Affiliation	•JREC
Region	Africa and Middle East
Renewable energy target(s)	•10 000 GWh or 0.8 Mtoe RE contribution to the final energy consumption by 2013

Renewable Energy Policies and Measures

Policy name	Policy type	Technology
White Paper on Renewable Energy	<ul style="list-style-type: none"> •Obligations •RD&D 	<ul style="list-style-type: none"> •Biofuel •Bioenergy •Geothermal •Hydropower •Ocean energy •Onshore wind •Solar photovoltaics •Waste (organic)

Statistical Information on Renewable Energy

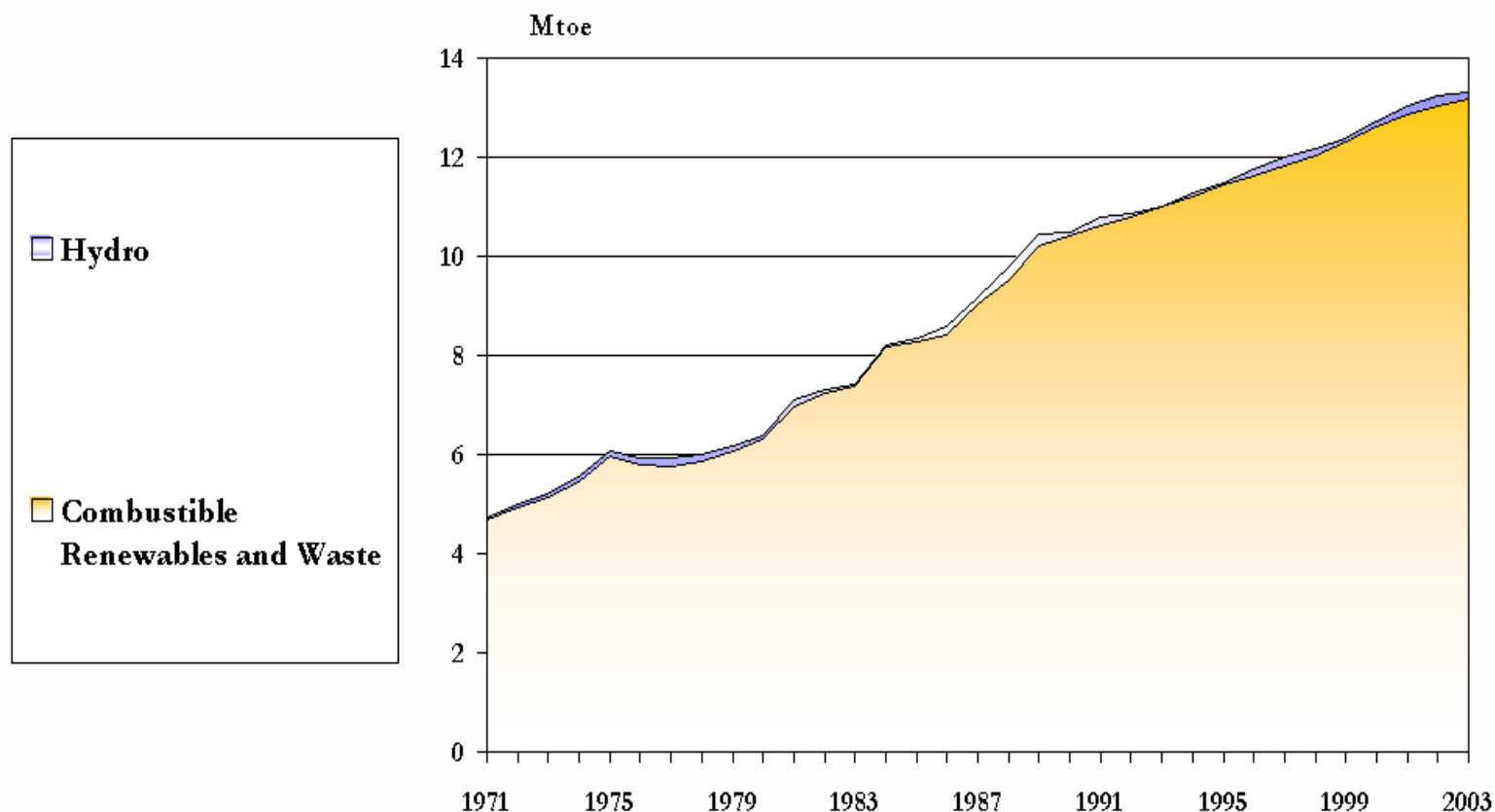
- [Total Primary Energy Supply from Renewables \(Mtoe\) - South Africa](#)
- [Shares of TPES 2003 - South Africa](#)
- [Electricity Generation by Fuel 2003 - South Africa](#)

Source IEA

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Other Data in the Database

South Africa - Total Primary Energy Supply from Renewables (Mtoe)



Source: IEA Energy Statistics - Copyright: IEA/OECD

Access to detailed data for almost all fuels for both OECD countries and over 100 other countries is available through the IEA website at:

<http://www.iea.org/statistics>

Measures Today:

<http://renewables.iea.org>

Category	Number of Measures/Actions	% of Total
Policy Actions including Laws	185	29
Information	29	5
Financial/Economic	227	35
Regulatory/Administrative	78	12
Voluntary	13	2
RD&D	77	12
Targets	34	5
Total	643	

78 countries reporting

Policy analysis

- Global focus: IEA and Plus Five countries, including South Africa
- Cost-effectiveness of various types of policies at various levels of market growth;
- Investment towards the mainstream;
- Scenarios for renewables: implications for fossil fuel demand and reduced CO₂ emissions; and
- Energy security implications
- Final report: Trends in Global Renewable Energy Markets and Policies
 - Publication: March 2008

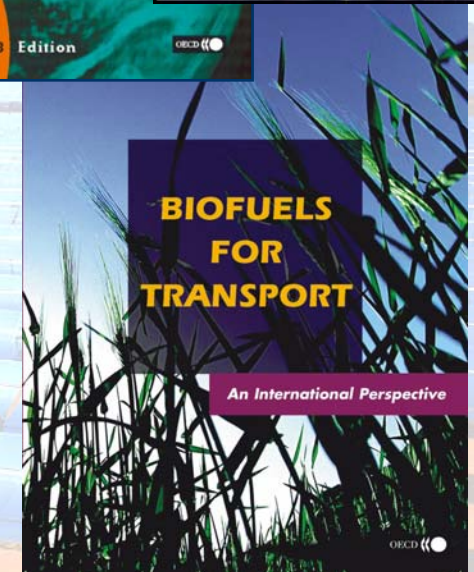
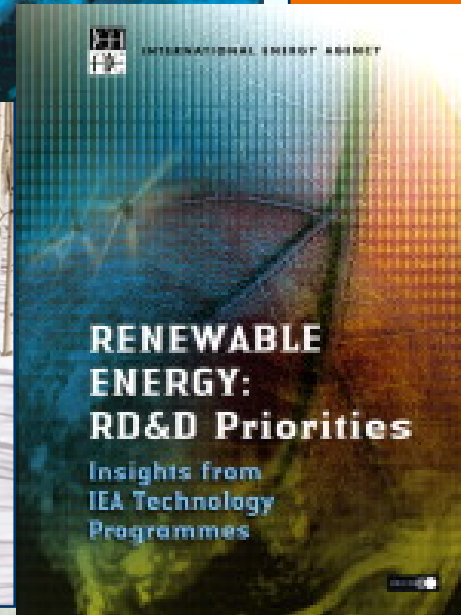
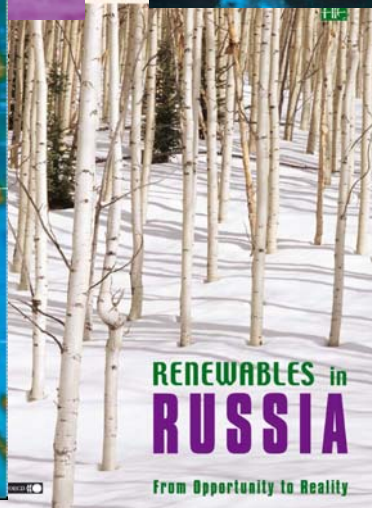
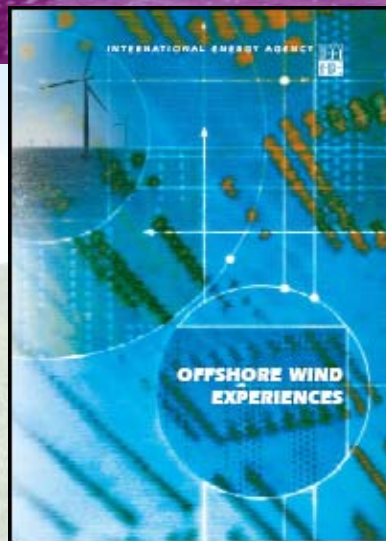
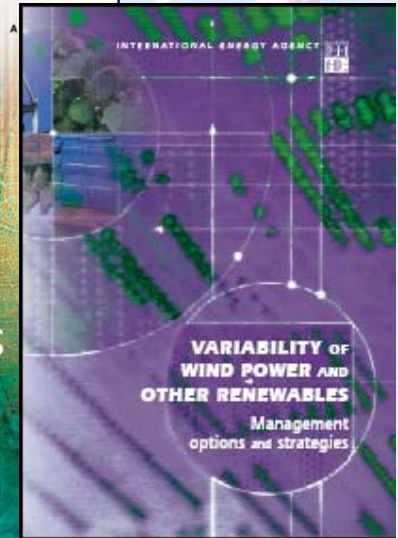
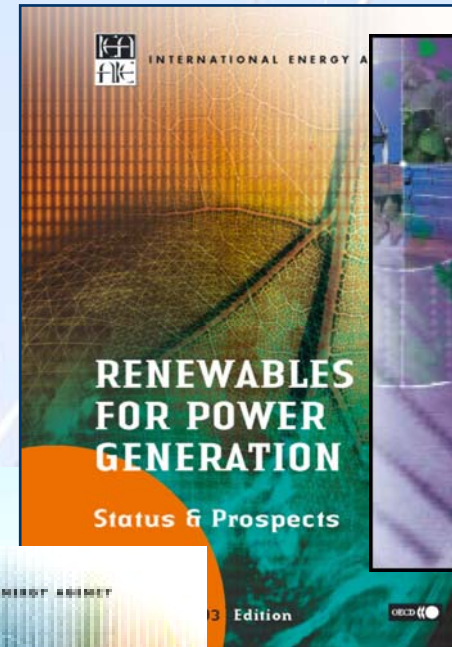
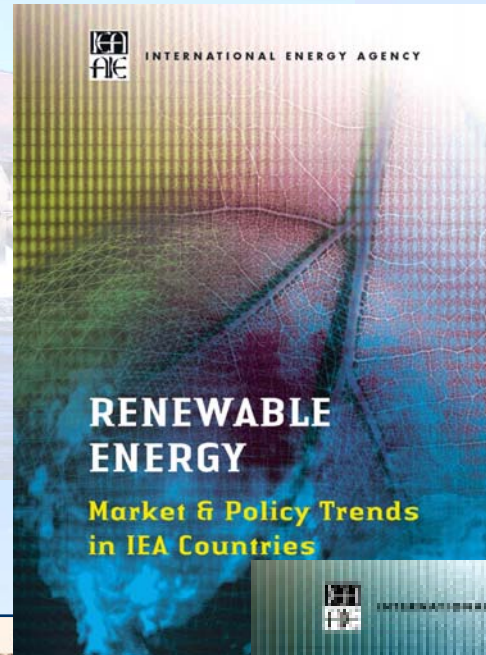
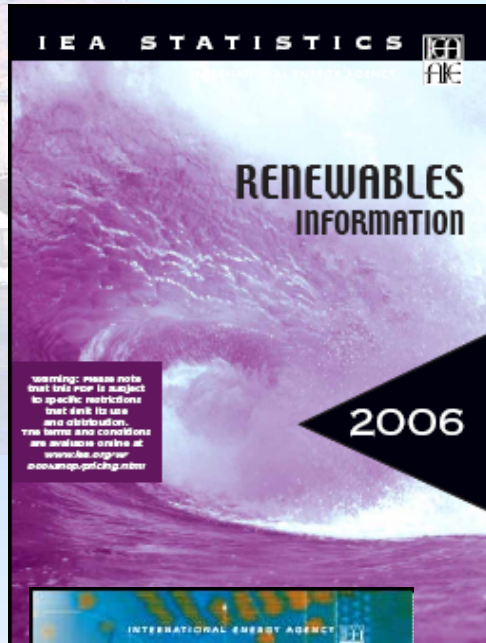
G8 Project: Integration of Renewable Energy into Electricity Grids

- UK Gleneagles G8 Summit tasked the IEA with reporting on the integration of renewable energy into transmission and distribution systems. The IEA will report to the Japan G8 Summit in 2008.
- Existing knowledge and experts will be drawn together to establish the state of play and remaining priorities for member countries, particularly with a view to variable sources of energy such as wind and solar energy.
- The objective is to identify the challenges and advantages that arise with varying degrees of penetration, system flexibility, interconnection and other parameters, and to achieve consensus on how best to address them, in the context of liberalising electricity markets, security of supply, etc.
- The project kicked off in November 2006. A technology workshop will be held in Spring 2007, and a second workshop, relating to policy, markets and regulatory issues will be held in the Autumn.

Other Projects

- Contribution of Renewable Energy Technologies to Energy Security
 - End-use sector approach: power generation, heating and cooling, transport
- RE Heating and Cooling report
 - Policy recommendations for development and market deployment of RES-H and RES-C technologies
- Renewables in Global Energy Supply Factsheet
 - Latest edition: January 2007

IEA Renewable Energy Publications



Contacts

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