

International Energy Agency and Global Bioenergy Partnership

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IEA 3 Es

- Energy security
- Economic development
- Environmental protection

Bioenergy

- 1099 Mtoe
- World:**
- 10.4% of World TPES
 - 78% of World renewable energy supply
- IEA:**
- 132 Mtoe
 - 2.6% of IEA TPES
 - 47% of IEA renewable energy supply



Significant cost reductions

- Dedicated large- and small-scale combustion
- Co-firing with coal
- Combustion of municipal solid waste
- Biogas generation via anaerobic digestion
- Heating
- Bioethanol and biodiesel (niche markets)



Technology today

- Improved performance
- Reduced cost
- Recognition of environmental, economic and societal values



IEA Bioenergy Programme

- Facilitates countries' efforts
- Platform for collaborative projects
- Information exchange on RD&D and policy
- Links national programmes and expertise
- 21 countries, 12 projects, USD 1.4 million



Bioenergy in Developing Countries

- 2,4 billion people rely on traditional biomass for cooking and heating
- A transition to modern biomass technologies is necessary
- Positive health, economic, social and environmental impacts



IEA/UNEP bioenergy workshops

- Identify the potential for modern use and supply of biomass in developing countries
- Identify effective policies and technologies to mobilise this potential
- Bioenergy as a contribution to the Millennium Development Goals



G8 Plan of Action

- Promote innovation and accelerate deployment of cleaner technologies.
- Work with developing countries to enhance private investment and transfer of technologies.
- IEA to contribute:
 - Advise on alternative energy strategies
 - Develop the IEA Implementing Agreements
 - Centres of excellence for technologies
 - Reinforce links with developing countries
 - Link with industry



Key issues remaining

- Cost reduction - basis for further market penetration
- RD&D and market deployment policies - key to realise potential
- Biodiversity, land, environmental, and health considerations



IEA collaboration with GBP?

- Supporting policy making
- Advancement of bioenergy technologies
- Development of bioenergy markets
- Strengthening social and environmental integration