6th EU RTD FP

Sustainable Energy Systems
Scientific Support to Policies

EUROPEAN ENERGY SOCIO-ECONOMIC RESEARCH

International Energy Workshop
jointly organised by EMF / IEA (ETSAP) / IIASA
Paris, IEA, 23 June 2004

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EU RESEARCH POLICY

Lisbon Strategy

EU to become the most competitive and dynamic knowledge economy in the world

European Research Area

To get one genuine ERA (not 25 +1 Research programmes)

Barcelona Summit

EU to achieve 3% of GDP dedicated to RTD in 2010

6° RTD FP (2002-2006)
SUSTAINABLE ENERGY SYSTEMS

Medium and long term research actions (405 M€)

- **Fuel cells, including their applications**
- **New technologies for energy carriers, particularly H_2**
- **New and advanced concepts in renewable energy technologies**
- **Capture and sequestration of CO_2**
- ***Socio-economic tools and concepts for energy strategy***

6° RTD FP (2002-2006)
SUSTAINABLE ENERGY SYSTEMS

Socio-economic tools and concepts for energy strategy

- **Quantification of energy externalities**
- **Social issues related to implementation of medium and long term energy technologies**
- **Quantitative and qualitative forecasting methods**

6° RTD FP (2002-2006)
SCIENTIFIC SUPPORT TO POLICIES

Development of tools, indicators and operational parameters for assessing sustainable transport and energy systems performance (economic, environmental and social)

6° RTD FP (2002-2006)
SCIENTIFIC SUPPORT TO POLICIES

- **Evaluation of the potential for reducing greenhouse emissions in electricity production by using the international Kyoto mechanisms**
- **Identification of industrial RTD priorities in the field of power generation**
- **International energy initiatives scientific monitoring, data development and validation**
- **Scientific consensus building conference related to the national allowances in the framework of the European greenhouse gas Emission Trading Scheme**

Sustainable Energy Systems

FP6 ENERGY SOCIO-ECONOMIC PROJECTS

NEEDS (New Energy Externalities Development for Sustainability)

Including: Life Cycle Assessment of new energy technologies like fuel cells; evaluation of externalities associated to the extraction and transport of fuels; and internalisation strategies

CASCADE MINTS (Case Study Comparisons And Development of Energy Models for Integrated Technology Systems)

Including: EU policy scenarios; development of an hydrogen module in the world and European energy and economic models

WETO-H2 (World Energy Technology Outlook-Hydrogen 2050)

Including: Medium to long-term perspective; Hydrogen and fuel cells scenarios

Sustainable Energy Systems

FP6 ENERGY SOCIO-ECONOMIC PROJECTS

LETIT (Local New Energy Technology Implementation)

Including: Use of tools to implement renewables in New Member States and Southern Europe

MAXIMA (Dissemination of external costs of electricity supply-making electricity external costs known to policy-makers)

Including: Stakeholders forum on the best way to internalize the social and environmental damages

SESSA (Sustainable Energy Specific Support Assessment)

Including: Appropriate regulatory framework in a liberalized electricity market

Sustainable Energy Systems

ROADMPAP FOR 2004

- **Sustainable Energy Systems - Medium and long term: Call in September 2004**
- **Scientific Support to Policies: Call in October 2004**
- **Expression of Interest results**
- **Information days**

See call text for details

INFORMATION SOURCES

http://www.cordis.lu
http://europa.eu.int/comm/research/energy/index_en.html
http://europa.eu.int/comm/energy/index_en.html
http://europa.eu.int/comm/research/fp6/firstcallresult_en.html
http://fp6.cordis.lu/fp6/eoi_details.cfm?CALL_ID=100