



EUROPEAN
COMMISSION

DIRECTORATE GENERAL FOR
ENERGY AND TRANSPORT



SUSTAINABLE ENERGY SYSTEMS

General Introduction

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Deputy Head of Unit D2

Management of Energy RTD programmes

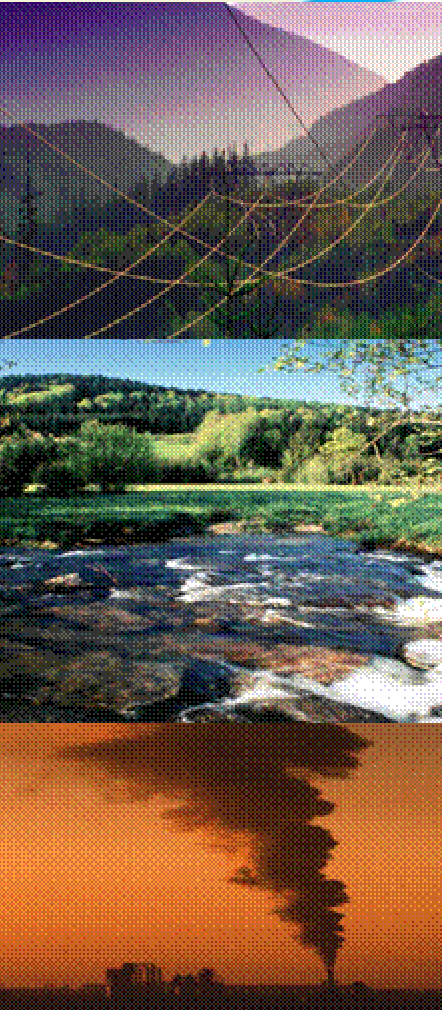




EU policies & Targets (1)

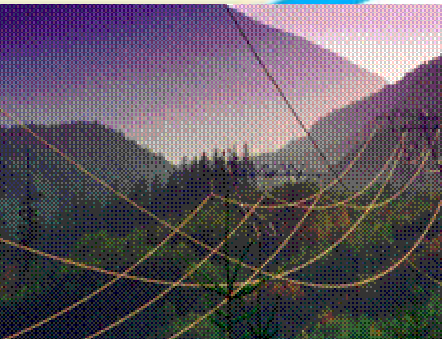


- **RES White paper 1997**: increase share of RES from **6% to 12%** of gross consumption **by 2010**
- **RES-e DIRECTIVE 2001** : to establish a framework to **increase the share of green electricity from 14% to 22%** of gross electricity consumption **by 2010**
- **COM on the Green Paper on Security of energy supply (June 2002)**
- **Directive on the energy performance of buildings (Dec 2002)** : saving potential of 22%.
- **Directive on liquid biofuels (May 2003)**
targets: 2% by 2005; 5.75% by 2010





EU Policies & Targets (2)



- **Directive on cogeneration of heat and power (2004)**
- **Action plan for Energy Efficiency** - target to reduce energy intensity by a further 1 % point / yr until 2010
- Comply with EU commitments under the 1997 Kyoto Protocol on **reducing greenhouse gas emissions**
- **EU Energy initiative** - poverty eradication and sustainable development by improving access to adequate sustainable energy services : partnerships between EU, Member States and developing countries
- **Johannesburg RE coalition “JREC”** working to increase the use of RES using targets and timetables
- New **COM 366** on the **Share of RE in the EU** launched at **Bonn** (26 May 2004)





Policy implementation

Policies and Targets

Legislation

EIE

**Market development, Certification,
Planning, Financing, Promotion**

FP6

**Research, Development, and
Demonstration of New Technologies**





Revised Work FP6 Programme SMT research (405 M€)

- **CLEAN ENERGY, IN PARTICULAR RENEWABLES**

- Cost effective supply
- Large scale integration

**Electricity
Grid Issues**

- **ENERGY SAVINGS AND ENERGY EFFICIENCY**

- Eco-buildings
- Polygeneration

- **ALTERNATIVE MOTOR FUELS**

- Biofuels-Cities,
- Hydrogen for transport

- **THEMATIC PROMOTION and DISSEMINATION**





**Cost effective supply
of RES**
Focus on RE electricity

IP

- innovative combinations of biomass with fossil fuels
- innovative demonstrations of RES electricity from wastes and other biomass feedstocks

STREP

- Large scale biogas plants
- Biomass co-firing
- Innovative wind farms, components, design tools
- Innovations in PV manufacturing plants
- Geothermal electricity / CHP
- Marine energy

Specific Support Actions : ALL





SMT 3rd Call

Grid Issues

(Based on WP text for large scale integration of RES, and polygeneration)

- **Distributed generation**
- **Decentralised generation**

STREP, CA, SSA

Polygeneration

- **Improvement of competitiveness**
- **Innovative integration**

IP, STREP, SSA





Search

with Google

Internet
Broadcasts 

Energy Agencies

Case Studies

Legislation

Programmes & Funds

Partner Search

Events

Links

managenergy

- Finding right partners
- What has been done already
- Community legislation
- Financing energy projects
- Past and future energy events





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Contacts

- National Contact Points
- European Commission
 - Energy Helpdesk (see Call & Guide for Proposers)
 - **DG TREN Helpdesk: tren-fp6@cec.eu.int**
 - DG TREN : Technical Officers





Staying informed

- **CORDIS**

- FP6 : <http://fp6.cordis.lu/fp6/>
- Sustainable Development : <http://fp6.cordis.lu/fp6/sustdev.htm>

- **EUROPA**

http://www.europa.eu.int/comm/dgs/research/index_en.html

- **Energy research web site**

http://europa.eu.int/comm/research/energy/index_en.html

- **DG Energy and Transport web site**

http://europa.eu.int/comm/energy/index_en.html

- **www.managenergy.net/**

