

Seminar Organised by INFORSE & EUFORES & EREF




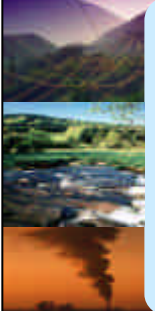
Brussels, November 9-10, 2004
Presentation by Karl Kellner, DG Energy and Transport




Support Programmes for the Promotion of Demand Management & Renewable Energy Sources


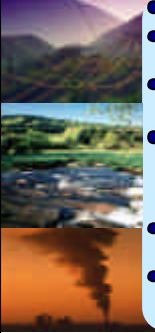
Seminar on New and Upcoming EU Policies for Sustainable Energy and Climate Protection
ICA, Brussels, November 9-10, 2004
Organised by
INFORSE, EUFORES, EREF

Presentation by Karl Kellner, Head of Unit DG Energy and Transport European Commission


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

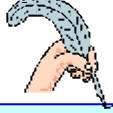
EU Policies & Targets (2)

- 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 on Renewable Energies in Europe launched at Bonn (Jun 2004)



Instruments


Legislative measures



The Commission initiatives promoting:

- electricity from RES
- biofuels
- energy efficiency in buildings
- co-generation

Support Programmes



Strengthened in the period 2003-2006:

- 6th RTD Framework Programme
- Intelligent Energy for Europe




Support Programmes




6th Framework Programme

(2002-2006)

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Sustainable development, global change and ecosystems (Priority 6)

- Sustainable energy systems (810 M €)
 - Short and medium term impact (DG TREN)
 - Medium and long term impact (DG RTD)
- Sustainable surface transport (610 M€)
- Global change and ecosystems (700 M €)

Short and medium-term (SM) research actions

Impact — Accelerate market penetration with a particular emphasis on 2010 energy policy objectives

Focus — Integrated demonstration actions

Risks — Technological as well as market / financial

Policy aims — Energy policy (serving research and associated policies)

FP6: Priority 6.1 “Sustainable Energy Systems”
Short and medium-term research areas / topics

- CLEAN ENERGY, IN PARTICULAR RENEWABLES**
 - Cost effective supply
 - Large scale integration of RES
- ENERGY SAVINGS AND ENERGY EFFICIENCY**
 - Eco-buildings
 - Polygeneration
- ALTERNATIVE MOTOR FUELS**
 - Biofuels, natural gas and H₂
 - CIVITAS 2

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Concerto

WHAT IS Concerto

Concerto supports **concrete** initiatives of local communities working towards a completely **integrated** energy policy, harmonizing a substantial use of RES with innovative technologies and systems to minimize energy consumption and to improve the quality of citizens' lives.

(Concerto is not included in the current call)

FP6 Sustainable Energy (short to medium term) – indicative Roadmap

	1st call	2nd call	3rd call	4th call
Publication	17 Dec. 02	17 Jun. 03	Jun. 04	Jun 05
Deadline	18 Mar. 03	17 Dec. 03	Dec 04	Dec 05
Cost effective supply	All		All	STREP, CA, SSA
Large scale integration	CA, SSA	CONCERTO	STREP, CA, SSA	CONCERTO II, IP, SSA
Eco-building	IP, STRP	CONCERTO	SSA	CONCERTO II, P, STREP, SSA
Poly-generation		CONCERTO	IP, STRP, SSA	CONCERTO II, P, STREP, SSA
Alternative motor fuels		CIVITAS II		
Indicative Budget	82	107	321	123

IP Integrated Project; STREP Specific Targeted Research Project; CA Coordination Action; SSA Specific Support Action

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3rd call
Short - Medium term
June – Dec. 2004

1. Cost-effective Supply of Renewables
2. Grid Issues
3. Polygeneration
4. Alternative Motor Fuels
5. Thematic Promotion and Dissemination



1. Cost-effective
Supply of Renewables:
IPs

Integrated projects for Biomass:

- Innovative combinations of biomass with fossil fuels
(advanced co-firing and co-combustion)
- Energy recovery and green electricity
 - from wastes
 - other commonly available biomass feedstocks



1. Cost-effective
Supply of Renewables:
STRPs

- Innovation in
 - Biogas
 - Combinations of biomass and wastes
 - Wind (farms, components and design)
 - PV (manufacturing at industrial scale)
 - Geothermal (innovative integration)
 - Ocean, Marine (ready for full scale demo)



2. Grid Issues:
STRPs, CA, SSA

- Distributed generation
- Decentralised generation (special emphasis on large scale wind power and management of electricity grids)
 - This is not new, but is aimed specifically to investigate the short/medium term effects of:
 - Large scale RES
 - Polygeneration



3. Polygeneration:
IPs and STRPs

- Improvement of competitiveness of polygeneration
- Innovative integration of polygeneration



4. Alternative Motor Fuels:
IPs , STRPs , CA

- Bio-fuel Cities partnership
 - all new projects to be integrated into 1 partnership
 - ongoing projects are invited to join
- Hydrogen for transport partnership
 - Fleets
 - Production, storage, distribution, fuelling
 - Synergies transport – stationary
 - Assessment, monitoring
 - Communication, dissemination

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Alternative motor fuels	All	CIVITAS II	All	
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Submission Deadline 8 December 2004

Intelligent Energy for Europe

A multiannual programme for action in the field of energy (2003-2006)

«Intelligent Energy - Europe»
 a single instrument for non-technological Community support in the energy field

Intelligent energy for Europe:

- strengthens the “renewable energy” and the “energy efficiency” fields
- redirects international support towards renewable energy and energy efficiency
- introduces a new field: energy aspects of transport

ALTENER
 SAVE
 COOPENER
 STEER

Types of actions

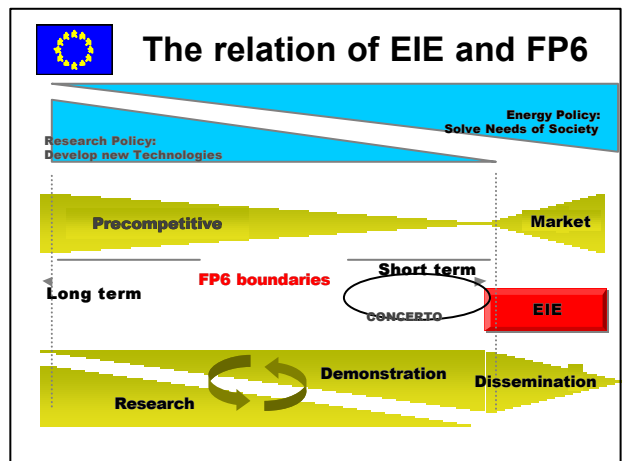
For each of the four fields, 6 types of actions:

- Market analysis, strategic studies, standards...
- Local and regional energy planning, development of financial products and market instruments
- Promotion of systems and equipment to facilitate the transition from demonstration to commercialisation
- Information and education structures, promotion, awareness raising, know-how transfer
- Monitoring of implementation and impact of policy
- Impact assessment of the actions and of the IEFoE

Budget

The financial framework for EU-15 is € 200 million for the period of 2003-2006

By field of action:	Total
SAVE: Rational use of energy and demand management	69.8
ALTENER: New and renewable energies and diversification of energy production	80
STEER: Energy aspects of transport	32.6
COOPENER: International promotion of renewable energy sources and energy efficiency	17.6
Total in million €	200



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More Information

WEB SITES

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

www.managenergy.net/

&

europa.eu.int/comm/dgs/energy-transport/