

# The Joint Research Centre (JRC): providing robust science for policy making

*Dr. Roland Schenkel, Director General*



<http://www.jrc.ec.europa.eu>

Prague, 27 June 2008

... to provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies.

As a service of the European Commission, the JRC functions as a reference centre of science and technology for the Union.

Close to the policy-making process, it serves the common interest of the Member States, while being independent of special interests, whether private or national.



## **IRMM** - Geel, Belgium

Institute for Reference Materials and Measurements

## **ITU** - Karlsruhe, Germany

Institute for Transuranium Elements

## **IE** - Petten, The Netherlands and Ispra, Italy

Institute for Energy

## **IPSC** - Ispra, Italy

Institute for the Protection and Security of the Citizen

## **IES** - Ispra, Italy

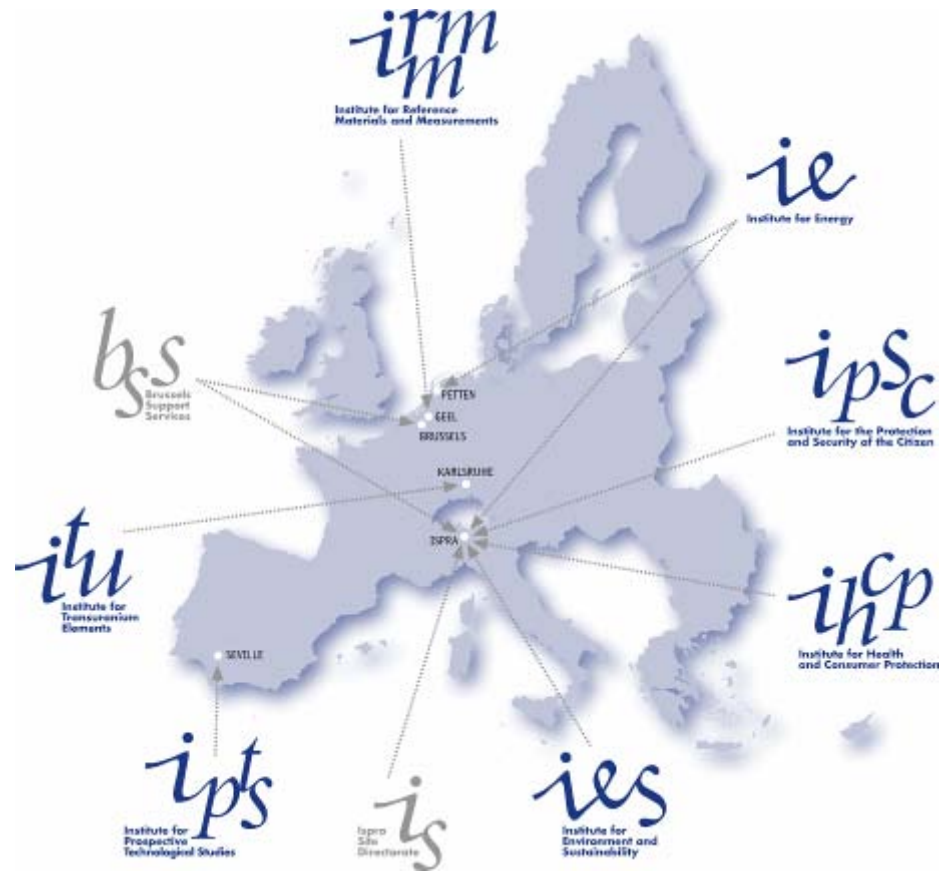
Institute for Environment and Sustainability

## **IHCP** - Ispra, Italy

Institute for Health and Consumer Protection

## **IPTS** - Seville, Spain

Institute for Prospective Technological Studies



~ 2650 staff + 250 competitive

~ 330 M€/y budget (+ ~ 40 M€/y competitive income)

## **OBJECTIVE:**

**The objective of the JRC – Czech Republic Open Day is to bring together representatives from the Czech Government and scientific community and the JRC to exchange views and review progress under the 7th Framework Programme and identify possible areas for future cooperation.**

**Energy and Environment and Sustainability have been identified as a priority topics.**

## 1. Projects and Networks

45 Czech research organisations are currently collaborating with the JRC (27 institutional networks, 40 competitive activities and 12 collaboration agreements)

### **Priorities:**

- Food safety and quality, food packaging
- Nuclear safety and security, nuclear medicine, training of nuclear scientists
- Techno-economic studies, agro-economic modelling
- Security
- Energy (renewables, energy conservation-
- Environmental sustainability, climate change, soil conservation, flood prediction



JRC – Czech Round Table, Prague - 16 May 2005

## 2. Staff

28 Czech researchers and experts are working at the JRC institutes

## 3. Workshops

335 Czech experts participated in JRC Enlargement and Integration Workshops in the last two years

## 4. Dissemination

- Round Table, Prague, 16 June 2005
- Information Day, Brno, 6 May 2004
- Information Day, Prague, 20 January 2003
- Information Day, Prague, 20 September 2001



JRC – Czech Round Table, Prague - 16 June 2005

# **JRC activities in the area of Energy and Environment**

## ❖ Goal: A plan to accelerate energy technologies for a low carbon future

- ✓ Joint planning and alignment of European, national and industrial research activities
- ✓ Increased funding

## ❖ Mains elements of the plan:

- ✓ European Industrial Initiatives bringing actors and resources together
- ✓ European Energy Research Alliance for greater co-operation in research
- ✓ European Community Steering Group on Strategic Energy Technologies
- ✓ Information system giving a clear picture of energy technologies and energy research in Europe: **SETIS**

# Future focus of JRC Research in the Energy Landscape

**SET Plan**

SETIS

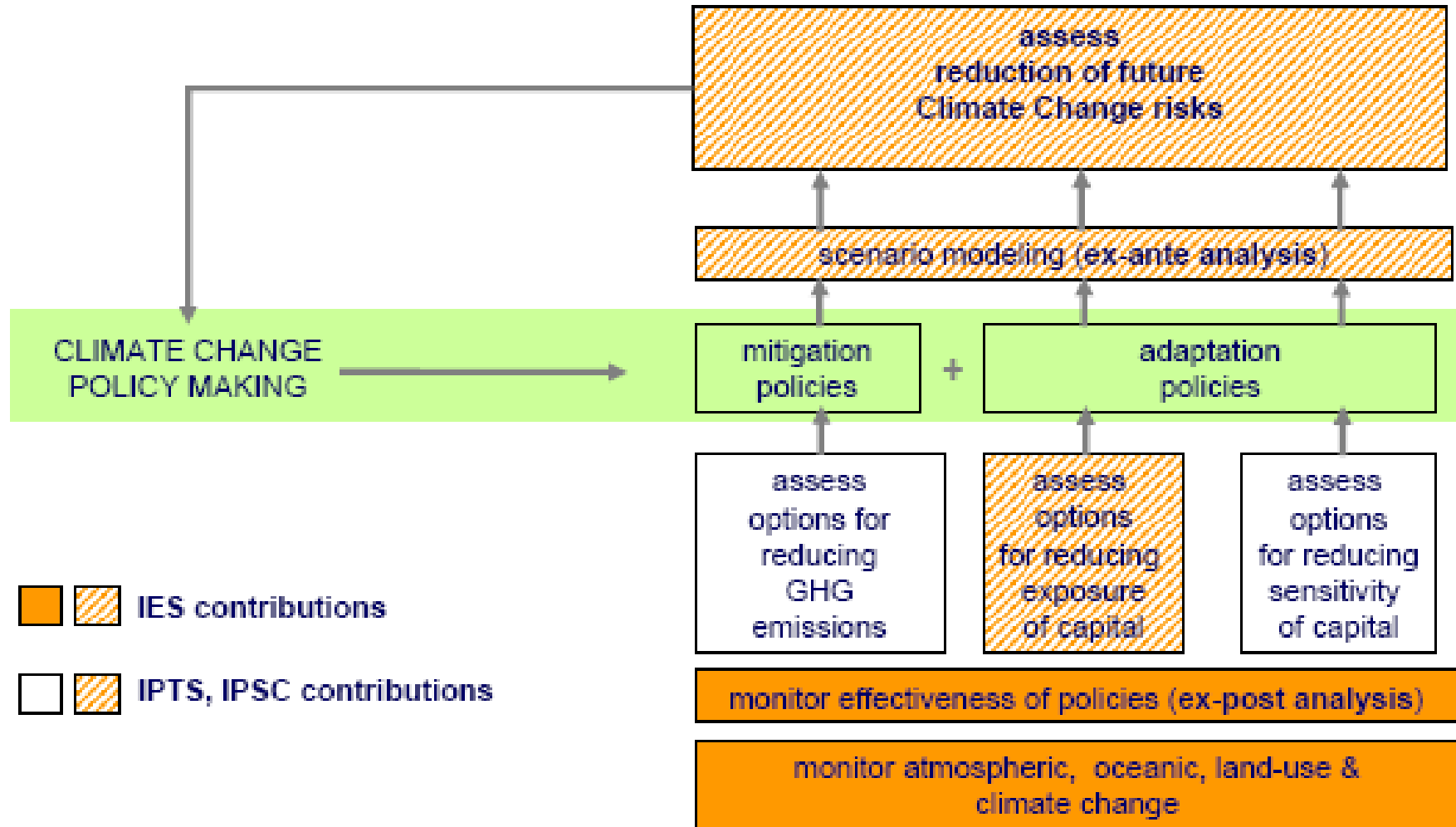
- Hydrogen and fuel cells (**FCH**)
- Zero emission power plants (**CCS**)
- Renewables (**PV, Solar**)
- Biofuels (**2<sup>nd</sup> Generation**)
- Energy efficiency (**transport, buildings, end use**)
- Energy systems modelling

Security of Energy  
(Energy Observatory)

- Energy systems (**infrastructures**)
- Energy supply

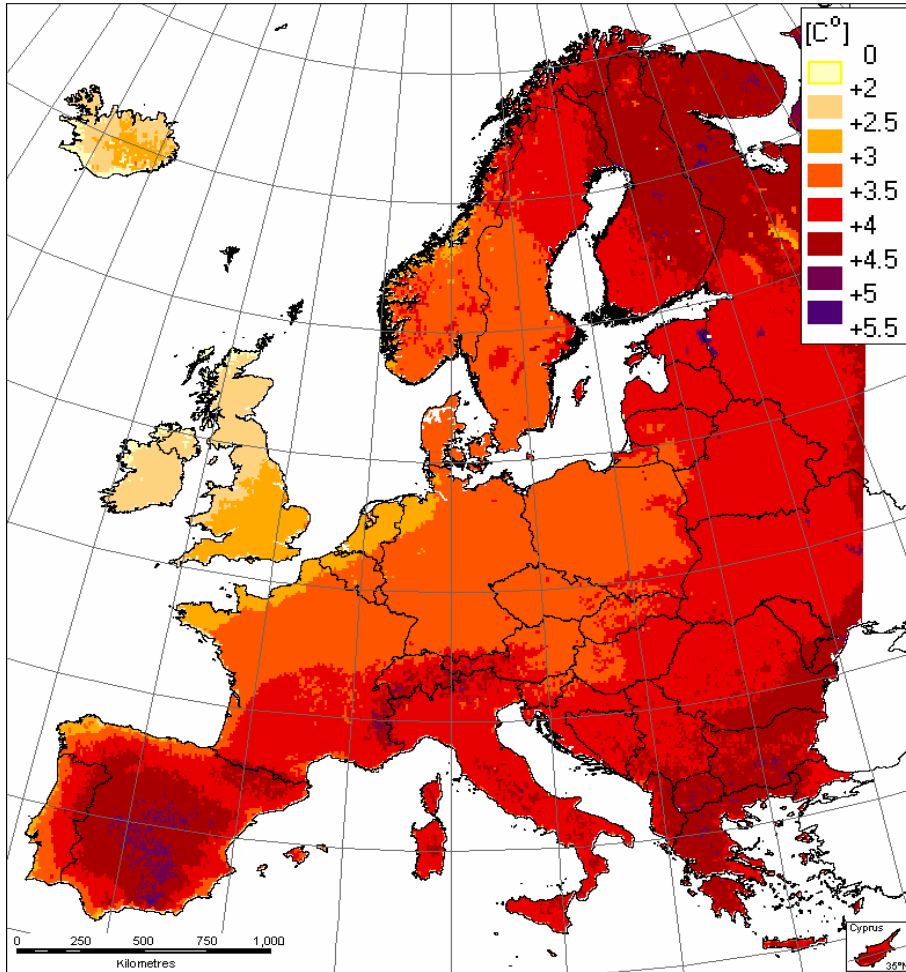
Nuclear Safety

- Current & next generation reactors
- Fuel Cycle
- Waste management

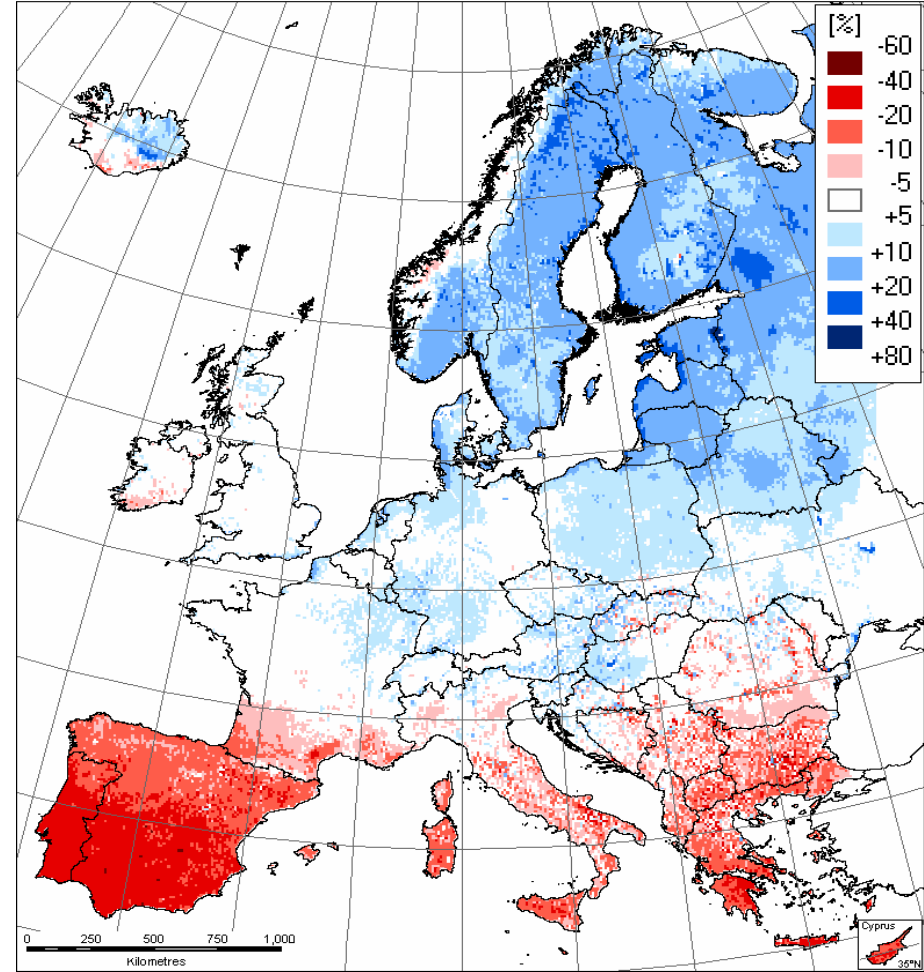


**Focus on mitigation and adaptation, integrated monitoring programs and integrated assessments addressing the European and global perspective**

## Change in annual temperature (°C)



## Change in annual precipitation amount (%)



Changes by end of this century compared to end previous century (A2 scenario)

Source: JRC PESETA study (<http://peseta.jrc.es>)

# Joint Research Centre (JRC)

*Robust science for policy making*

Web: <http://www.jrc.ec.europa.eu/>

Contact: [jrc-info@ec.europa.eu](mailto:jrc-info@ec.europa.eu)

