



МИНИСТЕРСТВО
НА ОБРАЗОВАНИЕТО
И НАУКАТА

JRC ROUND TABLE BULGARIA

Energy, Climate Change and
Natural Hazards

- 6 + 3 presentations
- Energy
- Climate change
- Natural hazards

CLIMATE CHANGE & ENERGY

- Important environmental issue – 21st century, scientists, media, policy makers
- UNCCC, Kyoto protocol
- Decreasing greenhouse gas emissions – national plans in Bulgaria, legislation (law of energy efficiency – just adopted)
- Renewable energy resources, bio- fuel, wind and solar energy

(Solar) ENERGY

- Applied research in various topics
- Modern methods and approaches
- several EU , NATO, UNESCO, BAS, MON
- contracts with private companies

ENERGY / JRC

- Energy efficiency
- Energy supply and security
- Electricity end-use efficiency
- Scenarios
- Alternative biomass use – biofuel, CO₂ avoidance
- Monitoring renewable energy production

CLIMATE CHANGE

- IPCC 2007 4AR for Europe
- Min air temperature: faster increase
- Precipitation – dryer in Mediterranean
- Extreme events, 2003 heat wave
- Green paper – adaptation to cc in EU
- JRC strategy in support of EU climate change policy
- Downscaling scenarios and problems
- In-house modeling activity
- EU funded projects – ENSEMBLES

CC/BG

- Warming and drying – in the past and in the future
- SCCGC-BAS and beyond
- Projects, human and financial resources
- Cc is not only caused by human activities, but also from other factors – possible influence of the cosmic rays on cvc

CC & Natural hazards

- Extreme events are expected to increase into the future: more intensive droughts, floods, forest fires
- PPP- based Actions and Policy Needs in the Area of Natural Hazards and Spatial Data Infrastructure (SDI)
- **Will the flood problem increase in Bulgaria as a consequence of Climate Change, and JRC tools**
- **Hydromet aspects, NIMH**
- Case studies on floods
- Early warning systems
- Operational web pages, data bases

Global Climate Change and Bulgaria

Our Intentions are:

- to implement the good practices from EC member countries with emphasis to those as JRC-Ispra, 7FP-projects, ERA-NET in the field of Climate change, etc.
- to be implemented additional cooperation with JRC- Ispra for joint research activities using their experience and research base.
- To contribute in lobbying in an establishment a national research program dealing with wider aspects of Climate Change.

Needs

- Capacity building, in all fields of research
- Bringing science to society;
- Developing communication strategy between researchers and to stakeholders
- National/international projects
- Cooperation between the institutions
- Exchange of ideas, know-how
- Reference land-cover model
- Simulation and prediction models for risks assessment

Requests & Proposals

- Eco-footprint – indicator for sustainable development
- Technology transfer from the JRC
- JRC to consider the idea to create wide interdisciplinary group for research the origins of climate change, prediction of hazards, also with regards to the Black Sea region

JRC ROUND TABLE BULGARIA

- Actions are necessary in the field of environment
- 7fp to explore the opportunity
- To use the chance to discuss the future cooperation
- There is an growing interest for collaboration in the field
- Energy and climate change are among EC research priorities
- Scientific and technical support to customers – the jrc mission
- Most budget goes to env

JRC

- Investments from industry, various private companies
- GMES – global monitoring of env and security
- Crisis management – e.g. earthquakes, floods in Romania, forest fires in Greece
- 38 projects with BG, 31 BG are working there

- EU solar test research
- Energy rating – depending on the months