

# **EnerGEO Workshop: Earth Observation Monitoring of Environmental Impacts – Shifting from Fossil to Renewable Energy Resources**

**Istanbul, 15 – 16 November 2011**

*Tuesday Nov 15, 13:00 – 17:00, Wednesday Nov 16, 10:00 – 16:00*

At the occasion of the Eighth Plenary Session of the Group on Earth Observations (GEO-VIII) EnerGEO will organise a workshop on the 15th and 16th of November.

The main objective of the research project EnerGEO (<http://www.energeo-project.eu>) is to develop a strategy for a global assessment of the current and future impact on the environment and ecosystems caused by the exploitation of energy resources and to validate this strategy for a variety of energy resources worldwide. The global observation strategy is developed to appropriately assess the impacts of the current and future transitions in energy-use on the environment by a combination of:

- Existing energy system models and methodologies to assess and forecast environmental impacts and costs of energy exploitation
- Existing global datasets from which environmental indicators will be derived to quantify changes to freshwater systems, biosphere, ecosystems, atmosphere and oceans

## **Goal of the workshop:**

Worldwide demand of energy is growing and will continue to do so for the next decades to come. The International Energy Agency (IEA) has estimated that global primary energy demand will increase by 40-50% from 2003 to 2030.

Since energy production, transportation and consumption put considerable pressure on the environment, there is serious concern regarding the sustainability of energy consumption.

EnerGEO develops products and methodologies that provide energy companies, consultants and policy makers (local, regional, global) with the tools to evaluate the environmental impact of changes in energy use in terms of the complete life cycle including exploration, development, exploitation, maintenance and decommissioning.

The workshop informs about the objectives of the project, the results achieved so far, and seeks to integrate expertise from experts in the field from outside the project consortium. Participants from diverse fields associated with the exploitation of energy resources and the assessment of environmental impacts are welcome to the workshop.

## **Agenda of the Workshop**

Tuesday, 15 November (13:00 – 17:00)

- Environmental Impact Model and Cost Assessment
- Pilots of EnerGEO (Fossil Fuel Pilot, Biomass Pilot, Solar Pilot, Wind Pilot)
- Platform of Integrated Assessment: Towards a generic decision tool for energy scenario including environmental impacts

Wednesday, 16 November (10:00 – 16:00)

- EnerGEO Community Portal - an INSPIRE affiliated approach
- Results from AIP3 - loose coupling to GEO-Portal
- Harmonization efforts integrating geographic and EO metadata based on ISO and OGC standards
- Integration concepts: EnerGEO Community Portal/GEO-Portal

### **Registration:**

Please indicate your interest to participate by sending an e-mail to [hmudau@geosec.org](mailto:hmudau@geosec.org) and [jsoares@GEOSEC.ORG](mailto:jsoares@GEOSEC.ORG) with [peter.zeil@sbg.ac.at](mailto:peter.zeil@sbg.ac.at) and [petra.fuereder@sbg.ac.at](mailto:petra.fuereder@sbg.ac.at) in cc.

Your mail should contain the following information:

- Full name
- Institution
- Present position
- your activities related to EO, Energy or Environmental Impact Assessment