



RISK OF ENERGY AVAILABILITY: COMMON CORRIDORS FOR EUROPE SUPPLY SECURITY



SUBJECT:

- REACCESS Final Conference, 13th of May, 2011, Brussels, Belgium
- Side Event: EU-GCC Clean Energy Network's 2nd Discussion Groups' Meeting, 11-12 of May, 2011, Brussels, Belgium
- REACCESS e-Final Conference, February 28th, 2011

THE PROJECT IN BRIEF

Import is increasingly contributing to energy consumption of EU27. According to the commonly accepted energy outlooks in 2030 about 70% of the European energy needs will be met by primary sources originating from foreign areas, some of which are very remote and geopolitically unstable. A relevant issue involves the reliability of the infrastructures, as far as likely accidents and terrorist attacks are concerned. In addition, the import of electricity will be relevant as many new interconnections are at several stages of design and implementation.

Our project "**REACCESS - Risk of Energy Availability: Common Corridors for Europe Supply Security**" was carried out under the 7th Framework Programme (FP7) of the European Commission. The project began on January 2008 and finished on December 2010. The main goal was to build tools suitable for EU27 energy import scenario analyses, able to take into account at the same time the technical, economical and environmental aspects of the main energy corridors, for all energy commodities and infrastructures.

REACCESS FINAL CONFERENCE

The REACCESS team organized the **e-Final Conference**, web and video Conference, which were implemented on February 28th, 2011. Particular emphasis was laid on REACCESS Models description, variant scenarios, spatial analysis of captive energy supply routes, WebGIS application and main dissemination activities.

The **Final Conference** of the REACCESS Project is scheduled to be held on the **13th of May 2011**. The Conference will take place in **Thon Hotel Bristol Stephanie in Brussels, Belgium** and in this one-day event there will be presented the results of the REACCESS Project, regarding the **Energy Security of Supply**.

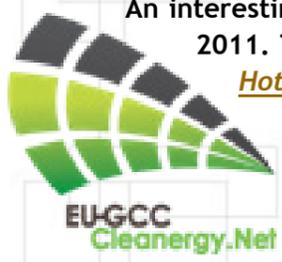
The main thematic topics to be addressed are following:

- Assessment of the main characteristics of the international energy commodities' trade,
- Production of suitable modelling tools for the energy systems of European and Rest of the World countries/regions,
- Assessment of suitable methodologies for the evaluation of the security of energy supply corridors,
- Assessment of exemplary scenarios and variants.

The Conference is addressed to actors interested in issues regarding risks in energy availability and security of energy of supply and provides a **good opportunity to exploit potential synergies among EU and GCC stakeholders** on the tools and methods developed and/or utilized for the assessment of energy corridors (for oil, natural gas & electricity) and scenarios.

Participation should be confirmed to claudia.sibilla@polito.it in order to be included in the participant list. Further information on the Event is available through the REACCESS Website <http://reaccess.epu.ntua.gr/NewsEvents.aspx>.

EU-GCC CLEAN ENERGY NETWORK: 2ND DISCUSSION GROUPS' MEETING



An interesting Meeting, aiming to respond to the common interests of stakeholders, both in the EU and the GCC, active in the field of clean energy, will be held on the 11-12 of May, 2011. The **2nd Discussion Groups' Meeting of the EU-GCC Clean Energy Network** will take place in the same venue as the Final Conference of the REACCESS Project, in **Thon Hotel Bristol Stephanie in Brussels, Belgium**.

The EU-GCC Clean Energy Network is an initiative developed to support the long term strategic EU - GCC energy relationship, addressing specifically clean energy issues. The Network aims at serving as a practical instrument for development of concrete cooperation activities on clean energy, covering the related policy and technology aspects, among various stakeholders across the EU and GCC countries.

Following the conclusions drawn in the 1st Discussion Groups' Meeting (30/11-1/12/2010, Dubai) and the 1st Plenary Meeting of the Network (18/01/2011, Abu Dhabi), the 2nd Discussion Groups' Meeting provides the D/G experts a chance to meet face-to-face and further work on the areas of common interest identified in the previous meetings towards producing tangible results. It envisages at the same time building tighter relations among the stakeholders and the possible entities, which are participating in the Meeting.

The Meeting will focus on achieving concrete results and on discussing specific co-operation "packages" within the Five Discussion Groups. The 2nd Discussion Groups' Meeting aims at presenting and highlighting the results and outcomes achieved so far and to make solid steps for the maturing of the co-operation ideas within each Discussion Group. The Meeting will include presentations for setting the basis of dialogue and coordinated discussion for defining next steps for action. Among the topics to be addressed in this meeting the following ones are included:

- **Clean Natural Gas & related Technologies**
 - Vehicle fleet retrofits for natural gas: Potential and Challenges
 - Floating LNG plants/terminals
 - Natural gas fueled plants as backup for renewable energy
- **Electricity Interconnections and Market Integration**
 - Modeling tools for the development of the EU-GCC cooperation in the field of clean and fossil energy systems
 - Grid Integration Potential for GCC (Desertec Project Status)
 - ✓ Update on the state of interconnection in the GCC
 - ✓ Challenges for Renewable Energy Sources Grid Integration
 - Smart Grids Security Challenges

Information on the Agenda, the topics to be addressed, the venue and other organizational details are made available in the Meeting's website <http://www.eugcc-cleanenergy.net/Events/NetworkMeetings/2ndDiscussionGroupsMeeting.aspx>.

Applications for participations at the Meeting are made online through the website by completing online the **Registration Form** until April 15, 2011 the latest.

ORGANISATIONAL & SCIENTIFIC CO-ORDINATION



AND



Visit & Register at www.eugcc-cleanenergy.net
 Contact us at: contact@eugcc-cleanenergy.net

REACCESS MODEL

The energy corridors system is the innovative part of this project. Possible open sea and captive corridors bringing energy to Europe have been identified. Each of them, more than a thousand, has been characterised from the geographical, technical and economic point of view. All this information has then been represented in a model. This representation of the energy corridors system is the innovative part of the REACCESS model.

The REACCESS model developed is a large partial equilibrium model of the global energy system. It represents the physical flows and the direct economics of the global and European energy systems. In particular the REACCESS model represents in detail the geographical dimension of the European energy supply system and each 'energy corridor' or branch is a separate model process.

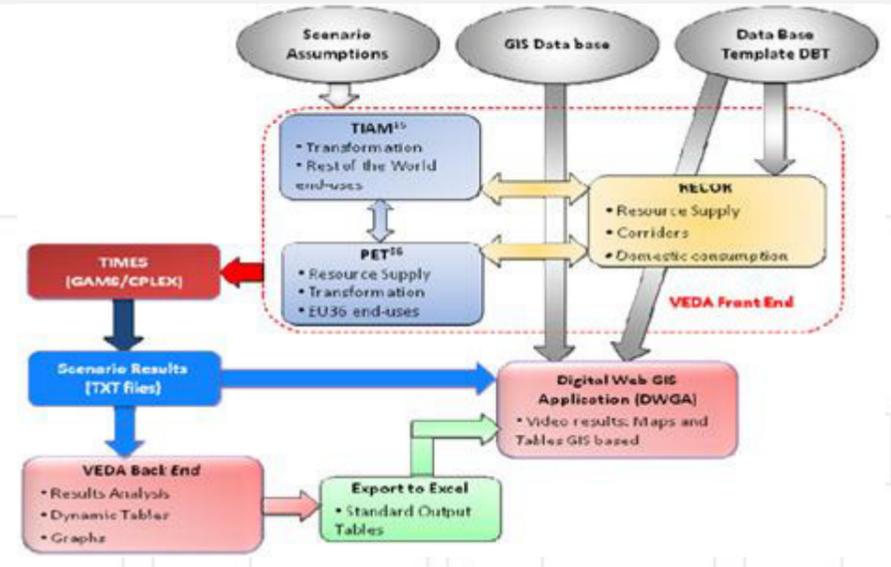


Figure: Integration Framework of the REACCESS Model

CONSORTIUM

- ▶ Politecnico di Torino (POLITO), Italy - Coordinator.
- ▶ Institute of Energy Technology (IFE), Norway.
- ▶ National Technical University of Athens (NTUA - EPU), Greece.
- ▶ Austrian Research Centres - Research Studios Austria (ARC), Austria.
- ▶ Fundacion General de la Universidad Nacional de Educación a Distancia (F-UNED), Spain.
- ▶ Valtion Teknillinen Tutkimuskeskus, Technical Research Centre of Finland (VTT), Finland.
- ▶ University of Stuttgart (USTUTT), Germany.
- ▶ Institute of Methodologies for Environmental Analysis (CNR-IMAA), Italy.
- ▶ Applied Systems Analyses, Technology and Research, Energy Models, ASATREM, Italy.
- ▶ Climate Change Coordination Center (CCCC), Kazakhstan.
- ▶ Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT), Spain.
- ▶ Deutsches Zentrum für Luft und Raumfahrt, German Aerospace Center (DLR), Germany.
- ▶ Kanlo Consultants (KANLO), France.
- ▶ Institute for the Economy in Transition (IET), Russia.

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