



Project Acronym : REACCESS
Project Title : Risk of energy availability:
common corridors for Europe
supply security
Coordinator : Politecnico Di Torino (Italy)
Website : <http://reaccess.epu.ntua.gr/>

ABSTRACT

The REACCESS project aims to build tools suitable for EU27+ energy import scenario analyses, able to take into account at the same time the technical, economic and environmental aspects of the main energy corridors, for all energy commodities and infrastructures. A well-balanced, integrated European-wide consortium has been established in order to effectively carry out the various program tasks that are directly aimed at achieving the objectives of this project. In particular, project participants were carefully chosen among institutions having complementary expertise and experience in the areas of security of energy supply, climate change, economic competitiveness etc.

The principal objectives of the REACCESS Project are:

- Analysing present policies concerning EU MS and Community targets for energy import,
- Evaluating technical, economical and environmental features of present and future energy corridors within Europe and between Europe and the energy supplying regions of the World,
- Identifying main corridors for primary and secondary energy carriers to EU27+,
- Implementing these energy corridors into an adapted version of the pan-EU TIMES model (PEM) built in the framework of the NEEDS IP or into other modeling tools,
- Analysing scenarios, in which for the fulfillment of the EU27+ energy needs, the import strategies of primary (and secondary) energy carriers compete with the evolution of energy efficiency policies (i.e. white certificates for the energy saving), the introduction of new energy schemes and the development of renewables, in the framework of the EU environmental targets for 2030-2050.

In order to take into account the competition with the energy supply and demand strategies of regions outside of Europe, given their potential impacts on the international energy availability and prices, suitable tools will be adopted: the new World TIMES Model, derived from the adaptations and implementation of the existing pan-EU27+ and TIAM, integrated with the Energy Corridor sub-Model resulting from the REACCESS first year activities.

Description of the main results achieved so far:

- the identification and the characterization of the energy import framework for EU27+, suitable to be implemented as a sub-Model associated to the adapted versions of the existing pan-EU27+ and TIAM TIMES Models;
- the identification of the main paradigms of the security of supply and their applications to energy corridors;
- the assessment of a methodology for the security-of-supply evaluation, able
 - i) to take into account socio-political and economic aspects and technological risks associated to routine and accidental operational conditions;
 - ii) To be implemented in the TIMES LP optimization procedure.

PARTNERS

Technical Research Centre Of Finland – **Finland**; Fundación General de la Universidad Nacional De Educación a Distancia (F-UNED) – **Spain**; National Technical University Of Athens – **Greece**; Institute For The Economy In Transition - **Russian Federation**; Climate Change Coordination Center – **Kazakhstan**; Asatrem Srl - Applied Systems Analyses, Technology And Research, Energy Models – **Italy**; Kanlo Consultants S.A.R.L. – **France**; Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) – **Spain**; Austrian Research Centers GmbH (ARC) – **Austria**; Consiglio Nazionale Delle Ricerche – **Italy**; Deutsches Zentrum Fur Luft Und Raumfahrt E.V. – **Germany**; Institutt For Energiteknikk – **Norway**; Universität Stuttgart – **Germany**.