



Fondazione
Eni
Enrico Mattei



*The SECURE project:
Security of Energy Considering its
Uncertainty, Risk and Economic implications*

Dr. Manfred Hafner

Conference "Energy Security 2010"
SECURE Regional "Gulf countries" Stakeholder's meeting
Manama (Bahrain), 9-10 November 2010



The SECURE Project

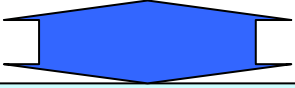
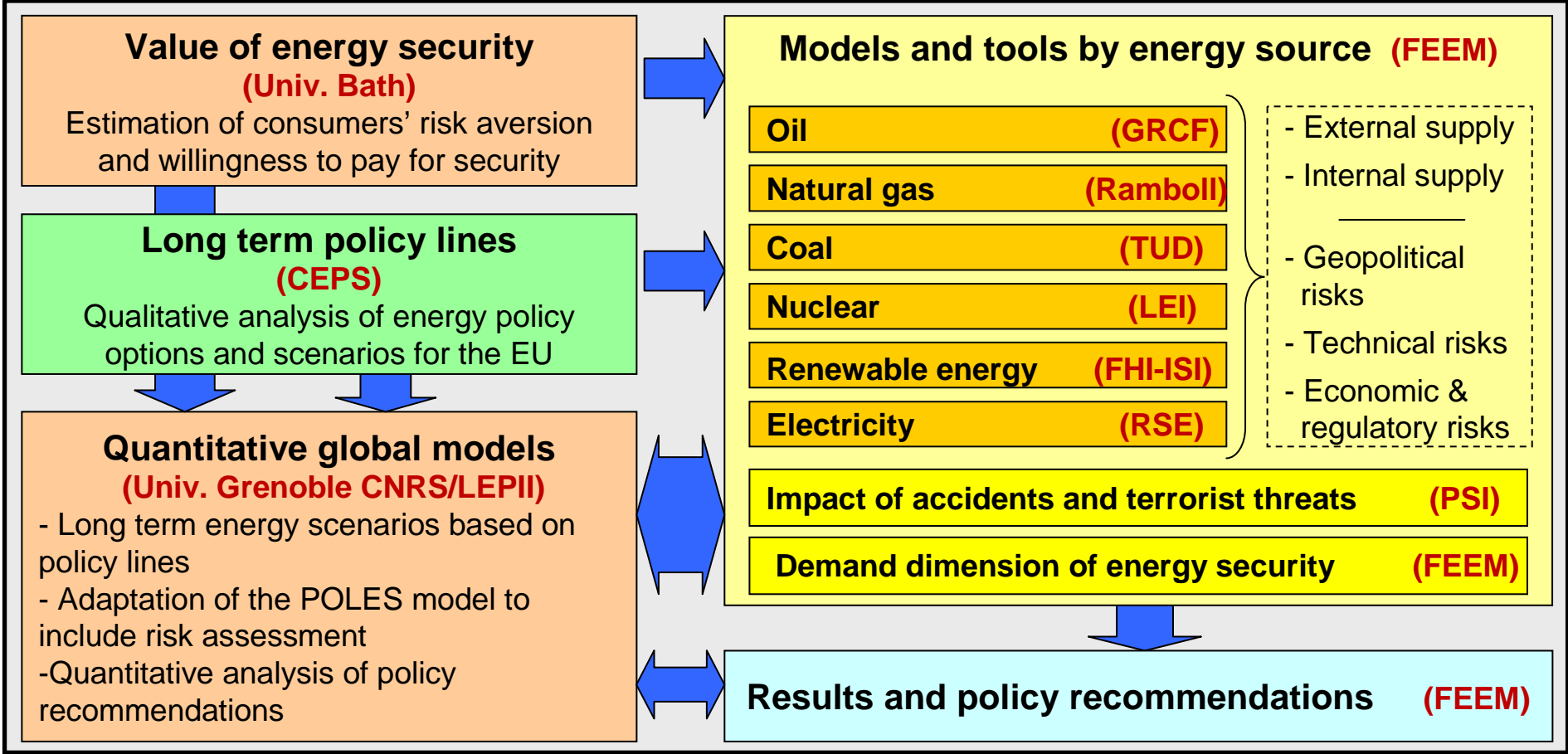
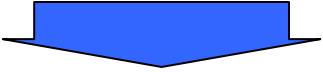
- **Comprehensive framework** of all issues related to energy security including **geopolitics, economic/regulatory and technical** design of energy markets **both inside and outside the EU**
- Analysis of **all major energy sources and technologies** (*oil, natural gas, coal, nuclear, renewable and electricity*) from upstream to downstream (*supply and demand side approach*)
- **Development of tools, methods and models** (global and sectoral) to measure and assess security of supply
- **Policy recommendations** on how to improve energy security taking into account costs, benefits and risks of various policy choice

SECURE Project partners: 15 prestigious research institutions

	Partner		Country
<i>Coordinator</i>	Observatoire Méditerranéen de l'Energie	OME	France
<i>Scientific Coordinator</i>	Fondazione Eni Enrico Mattei	FEEM	Italy
	Ramboll Oil & Gas	RAMBOLL	Denmark
	Lietuvos Energetikos Institutas	LEI	Lithuania
	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	Fraunhofer	Germany
	Joint Research Centre	JRC	Belgium
	Technische Universität Dresden	TUD	Germany
	Paul Scherrer Institut	PSI	Switzerland
	Ricerca sul Sistema Energetico	RSE	Italy
	Energy Research Institute Russian Academy of Sciences	ERI RAS	Russian Federation
	The University of Bath	Bath	United Kingdom
	Gulf Research Center Foundation	GRCF	Switzerland
	Centre for European Policy Studies	CEPS	Belgium
	Vienna University of Technology, Energy Economics Group	TU-WIEN	Austria
	Centre National de la Recherche Scientifique	CNRS	France

- **Duration: 3 years**
(36 months: January 2008 - December 2010)
- **79 reports** (of which 61 scientific)
- **Intensive Stakeholders consultations:**
9 Stakeholder consultation & Dissemination events

Methodological developments (FEEM)
Definition of concepts and general methodology of the project



Stakeholders consultations and dissemination (CEPS)

Scientific coordination (FEEM)

Administrative management (OME)

Timetable

	Year 1-2008												Year 2-2009												Year 3-2010																
	jan	feb	mar	apr	mag	giu	lug	ago	set	ott	nov	dic	jan	feb	mar	apr	mag	giu	lug	ago	set	ott	nov	dic	jan	feb	mar	apr	mag	giu	lug	ago	set	ott	nov	dic					
	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36					
WP1												Mi3																													
WP2												Mi2									Mi7																				
WP3												Mi1																													
WP4													Mi4									Mi5/6																			
WP5																																									
WP5.1																																									
WP5.2																																									
WP5.3																																									
WP5.4																																									
WP5.5																																									
WP5.6																																									
WP5.7																																									
WP5.8																																									
WP6																																									
WP7																																									
WP8																																									
WP9																																									

Mi Milestone
WS Workshop
CO Final Conf

Thematic Workshop:
methodology, value,
scenario story lines

Thematic Workshop:
oil, gas and coal

Thematic Workshop:
Electricity, renewables,
nuclear, accidents and
terrorism, demand

Policy Workshop:
Results and Policy
Reccomendations

3 Regional Workshops:
Russia/CIS (Moscow),
Mediterranean (Cairo),
Gulf (Bahrein)

Audition at
the European
Parliament

**Final
Conference**



Prestigious Advisory Board

- **Dr. Adnan Shihab-Eldin:** former Secretary General of OPEC
- **Prof. Jonathan Stern:** Director Gas Programme at the Oxford Institute of Energy Studies
- **Prof. Jean Michel Glachant:** Loyola de Palacio Chair at the European University Institute and Director Florence School of Regulation)
- **Prof. Carlo Carraro:** President University of Venice, Chairman of the Scientific Board of Fondazione Eni Enrico Mattei and Vice-Chair of IPCC)
- **Prof. Gilbert Metcalf:** US National Bureau of Economic Research and Tufts University

Stakeholder Consultations and Dissemination events

Nr.	Timing	Workshop name	Location	Organizer
WS1	29 Jan 09	Thematic WS (Methodology and scenarios)	Brussels	CEPS
WS2	26 Nov 09	Thematic WS (oil, gas, coal)	Paris	OME
WS3	18-19 Jan 2010	Thematic WS: Nuclear, Renewables, Electricity, Accidents&Terrorism, Demand, Value)	Milan (2 days)	RSE
WS4	29 Sept 2010	Workshop (Results & Policy Recommendations)	Brussels	CEPS
WS5	2 July 2010	Regional WS “Russia & CIS”	Moscow	ERIRAS
WS6	19 Oct 2010	Regional WS “North Africa & Turkey”	Cairo	OME
WS7	9-10 Nov 2010	Regional WS “Gulf countries”	Bahrein (2 days)	GRCF
WS8	16 Nov 2010	Policy event at the European Parliament	Brussels	CEPS
CO	25 Nov 2010	Final Conference	Brussels	CEPS



Gulf Research Center Foundation
Knowledge for All



secure



Energy Security 2010



مركز البحرين للدراسات الإستراتيجية والدولية والطاقة
Bahrain Center for Strategic, International and Energy Studies

الهيئة الوطنية للغاز والنفط
NATIONAL OIL & GAS AUTHORITY

2010
البحرين
BAHRAIN

Under the patronage of
His Highness Shaikh Khalid Bin Abdulla Al Khalifa,

Conference

تحت رعاية

معالي الشيخ خالد بن عبدالله آل خليفة
وزير ديوان سمو رئيس مجلس الوزراء
مؤتمر

أمن الطاقة

آفاق التعاون بين الاتحاد الأوروبي ودول مجلس التعاون لدول الخليج العربية

Energy Security

Potential for EU-GCC Cooperation

9 - 10 November 2010

- Session I:** Scenarios of Energy Futures
- Special Session:** IEA - World Energy Outlook 2010
- Session II:** Geopolitical Threats to Oil Supplies
- Session III -** Interplay of Energy Security and Price Volatility
- Session IV -** LNG and Gas Suppliers to Europe
- Session V -** Nuclear and Renewable Sources in EU-GCC Cooperation



Gulf Research Center Foundation
Knowledge for All



The Gulf and European Energy Supply Security



Background Papers

Conference on
Energy Security:
Potential for EU-GCC Cooperation
November 9-10, 2010
Manama, Bahrain

Collection and Summary of those SECURE Project results which have a specific relevance for EU-GCC Cooperation

Contents:

1. The European Energy Sector and Climate-Security Nexus in the SECURE Scenarios
 2. Threats to oil Supply Security
 3. Functioning of the International Oil Markets and Security Implications
 4. Geopolitical Issues of Europe's Future Gas Supply
 5. Overview of RES Characteristics and Future Scenarios
- Draft Policy Recommendations of the SECURE Project

Thank you for your attention!

manfred.hafner@feem.it



Fondazione
Eni
Enrico Mattei

corso Magenta 63
20123 Milano - Italy

tel +39 | 02 | 5203.6975
fax +39 | 02 | 5203.6946
web <http://www.feem.it>