



## Day 1 7 October 2010

9:00 – 9:30 Registration

9:30 – 11:15 Opening

11:15 – 11:30 Coffee break

11:30 – 13:30 **1. Policies**

### **Speakers<sup>1</sup>**

*“Measuring Income and Energy Distribution in Germany with the Atkinson Index”* by Dr. Holger SCHLOR, W. FISCHER, J.-Fr. HAKE (Research Centre Jülich, Institute of Energy Research – Germany)

*“Renewable energy targets in the EU: the case of fuels for transport”* by Laura LONZA (European Commission’s Joint Research Centre, Institute for Environment and Sustainability – Belgium), Heiko MAAS (Environmental Science Department Ford Research & Advanced Engineering Europe - Belgium) and Alan REID (CONCAWE – Belgium)

*“Mitigation vs Adaptation: conflicting policy arenas and the post-Kyoto negotiations”* by Prof. Chloé Anne VLASSOPOULOS (University of Picardie, CURAP/CNRS, Department of Political Science – France)

*“Energy emission scenarios for Bulgaria using the integrated model GAINS”* by Dr. Todor TODOROV (National Institute of Meteorology and Hydrology – Bulgarian Academy of Sciences – Bulgaria)

*“Scenarios for Hong Kong’s Energy and Greenhouse Gas Emissions”* by Jiang KEJUN Zhuang XING (Energy Research Institute, National Development and Reform Commission in China – P.R. China)

*“Limitations of the Regulatory Limitations of Exhaust CO<sub>2</sub> Emissions from Passenger Cars in European Union and Propositions for a New Regulation”* by Christina BAMPATSOU, Efthimios ZERVAS (Hellenic Open University – Greece)

14:00 – 15:00 Lunch break

15:00 – 17:00 *“Greenpeace Scenarios for Austria”* by Dr. Todor BALABANOV (Institute for Advanced Studies - Institut fuer Hoehere Studien (IHS) - Austria)

*“Overview of the bioenergy sector in the Energy Community Contracting Parties plus Ukraine”* by Christoforos PERAKIS, Vassilis PAPANDREOU, Stephanos NTOULAS, Calliope PANOUTSOU (Centre for Renewable Energy Sources (CRES) - Greece), Petar GVERO (University of Banja Luka, Faculty of Mechanical Engineering - ), Semin Petrovic (IGT-Research and Development Centre of Gas Technology Sarajevo-), Julije Domac (North-West Croatia Regional Energy Agency – Croatia), Kiril Popovski (Macedonian Geothermal Association – FYROM), Cornel Bordeianu (Consolidated

<sup>1</sup> All abstracts mentioned in this draft have been accepted by the Scientific Committee and are subject to the Conference terms for final presentation.

	<p>Agricultural Projects' Management Unit), Vesna Nikcevic, Branko Glavonjich (Belgrade State University, Faculty of Forestry - Serbia), Dragoslava Stojiljkovici (Belgrade University, Faculty of Mechanical Engineering, Fuels and Combustion Lab. – Serbia), Tetiana Zhelieznoj .</p> <p><i>"Comparative analysis of the Kyoto Protocol implementation at the BSEC countries"</i> by Dr. Popi KONIDARI, Prof. Dim. MAVRAKIS (NKUA-KEPA – Greece)</p>
17:15 – 18:15	<p><b>2. <u>Biofuels</u></b></p> <p><b>Speakers<sup>2</sup></b></p> <p><i>"Improving green-house gas balances of organic farms by the use of vegetable oil from mixed cropping as farm own fuel and its competition to food production"</i> by Hans Marten PAULSEN (Institute of Organic Farming in the Johann Heinrich von Thuenen-Institute (vTI), Federal Research Institute for Rural Areas, Forestry and Fisheries – Germany)</p> <p><i>"Treatment of household waster water by means of biological ponds in conditions of Armenia"</i> by Dr. Knarik HOVHANNISYAN and Hasmik ASLANYAN ("Shogher Union" NGO - Armenia)</p> <p><i>"Building sustainable biomass to biofuels systems: Prospects for biohydrogen generation in two EU regions"</i> by S L. S. KARAOGLANOGLU, L. K. DIAMANTOPOULOU (School of Chemical Engineering, NTUA – Greece), R. BAKKER, S. LIPS (Wageningen UR-Food &amp; Biobased Research – Netherlands), J. K. HESSELINK (PROVALOR ), P. D. SKAYANNIS (School of Engineering. University of Thessaly – Greece), E. G. KOUKIOS (School of Chemical Engineering, NTUA - Greece)</p> <p><i>"Options for balancing the growing energy need and food security in Asia: Case Study of India"</i> by Linu Mathew PHILIP (Centad - India)</p>
18:30 – 20:30	<b>Visit to new museum of Acropolis</b>
21:00	Dinner

## Day 2

8 October 2010

### Parallel sessions

9:30 – 13:30

#### 3. Conventional energy

(Fuels – Electricity)

#### 4. Renewable Energy Sources

#### Speakers<sup>2</sup>

*"The Impact of Diesel Fuels' Combustion in Cars on the SO<sub>2</sub> Urban Air Pollution in Albania"* by Edlira F. MULLA (Department of Chemistry. Polytechnic University of Tirana – Albania), Angjelin SHTJEFNI, Prof. Andonaq LAMANI (Londo) (Department of Energetics, Polytechnic University of Tirana – Albania)

*"Wave energy devices' potential application in Aegean Islands"* by Maria KAMARGIANNI, Dr. Thoedoros LILAS, Prof. Nikitas NIKITAKOS (Dept. of Shipping Trade and Transport, University of the Aegean- Greece)

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*“Romania’s depleted oilfields geothermal potential”* by Dr. Mihail - Valentin BATISTATU (“Petroleum – Gas University “of Ploiesti, Faculty of petroleum Engineering – Romania)

*“The effects of dwelling and occupancy characteristics on domestic electricity consumption in Ireland”* by Fintan McLOUGHLIN and Dr. Aidan DUFFY (Department of Civil and Structural Engineering, School of Civil and Building Services, Dublin Institute of Technology – Ireland)

*“Structure analysis of electricity balance of Romania in terms of resources optimal mix of primary energy use – multicriterial model”* by Prof. Ph.D. Adrian BADEA, Ph.D. Irina VODĂ (ISPE – Romania)

### **Conventional Energy**

#### **(Energy efficiency)**

*“Creating a hotel building stock model focused on energy consumption”*, by Sofia-Natalia BOEMI, Agis M. PAPADOPOULOS and Giouli MIHALAKAKOU

*“Green transport in islands areas”* by Amalia POLYDOROPOULOU and Athena TSIRIMPA (University of the Aegean)

*“Estimation of Maximum PV Penetration in the Domestic Sector in Greece”* by Dr. Georgios MARTINOPOULOS (School of Science and Technology, International Hellenic University (I.H.U.) – Greece)

*“Usage of Renewable Energy Sources in a Rural Area of Uzbekistan”* by Prof. Ioannis RAMPIAS (Technological Educational Institute of Athens – Greece) and Natalya KLIMENKO (ANCE NGO – Greece)

*“Past, present and future capability of RES penetration into the non-interconnected energy system of the Greek islands”* by Dr. Harry D. KAMBEZIDIS (Institute of Environmental Research and Sustainable Development, National Observatory of Athens – Greece), Barbara KASSELOURI (Hellenic Open University – Greece), Dr. Dimitrios ZEVGOLIS (Hellenic Open University – Greece)

*“The wind energy potential of Azerbaijan and its use at the Caspian Sea offshore”* by A.M. PASHAYEV, A.Sh. MEHTIYEV, A.Kh. JANAHMADOV, N.G. JAVADOV, M.I. ALIYEV (Azerbaijan Engineering Academy – Azerbaijan)

*“Estimating energy input and emissions in the Integrated Biomass Supply Analysis & Logistics (IBSAL) platform”* by Shahab SOKHANSANJ (Chemical & Biological Engineering, University of British Columbia - Canada)

*“Cost effective Renewable Energy Sources innovations to Agriculture with emphasis on Solar Energy”* by Dr. Chrysovalantou LAMNATOU (National Center for Scientific Research “Demokritos”- Greece), Dr. Evanthie MICHALENA (Sorbonne and Paris 8 Universities – France), Dr. Manolis SOULIOTIS, Assoc. Prof. Yiannis TRIPANAGNOSTOPOULOS (Physics Department, University of Patras – Greece)

*"The role of information and communication technology in implementation of the energy conservation program of the Republic of Uzbekistan"* by Prof. Ioannis RAMPIAS (Technological Educational Institute of Athens – Greece) and Ismailova Gulchehra ARIPDJANOVNA (Tashkent State Technical University – Uzbekistan)

*"ZED – KIM : An experimental model house for zero energy demand and zero emissions"* by Prof. Panos KOSMOPOULOS, Leonidas BOURIKAS, Ioannis KOSMOPOULOS (Department of Environmental Engineering, Democritus University of Thrace - Greece)

*"Web-based Energy Management Systems, a Necessary Tool for Energy Efficiency and Smart Metering"* by Menelaos IOANNIDIS, and Angelos VATIKALOS (Build-IT - Greece)

*"Using an Atmospheric Pressure Chemical Vapor Deposition Process for the Development of "Smart Windows""* by Dimitra VERNARDOU (Technological Educational Institute of Crete – Greece), G. PAPADAKIS (Foundation for Research & Technology – Greece), E. SPANAKIS, E. KOUDOUMAS, N. KATSARAKIS (TEI of Crete - Greece)

*"Electrochemical properties of WO<sub>3</sub> coatings grown at low temperatures"* by Harris DROSOS, Dimitra VERNARDOU, E. SPANAKIS, E. KOUDOUMAS, C. SAVVAKIS and N. KATSARAKIS (Technological Educational Institute of Crete – Greece)

*"Developing wave energy in Mediterranean and Black Sea: Potential economic drivers and socio-economic and environmental effects"* by Euripides PAPADOPOULOS (Hellenic Center for Marine Research – Greece)

*"Survey regarding the cognitive level and attitudes towards R.E.S. of both specialists and the public in Greece"* by Panos KOSMOPOULOS, Athina KANTZIOURA, Danai GEORGIADOU (Department of Environmental Engineering, Democritus University of Thrace – Greece)

*"Kazakhstan Renewable Energy Sources: Clear Energy Market Promotion, Competitiveness and Benefits"* by Prof. Sergey INYUTIN, Lyubov INYUTINA (Turan - Astana University, SPF KAZHIMINVEST - Kazakhstan), Dr. Alexey CHEREDNICHENKO (KAZNIIK - Kazakhstan)

*"Membrane-hybrid systems for post combustion CO<sub>2</sub> capture"* by Michael FOLLMANN, Christoph BAYER, Lars PETERS, Matthias WESSLING and Thomas MELIN (AVT Chemical Process Engineering, RWTH Aachen University – Germany)

13:30 – 15:00

Lunch break

15:00 – 17:15

## 5. Climate change

*"Indicators for climate changes in the Athens area"* by Maria SAVVIDOU, Efthimios ZERVAS (Hellenic Open University – Greece)

*"Impact of solar activity on climate changes in Athens region, Greece"* by Nectaria A. B. GIZANI, Maria SAVVIDOU,

## Renewable Energy Sources

*"Are membrane gas separation processes able to meet the product specifications of post combustion CO<sub>2</sub> capture?"* by Michael FOLLMANN, Christoph BAYER, Matthias WESSLING and Thomas MELIN (AVT Chemical Process Engineering, RWTH Aachen University – Germany)

*"Quo Vadis Archimedes nowadays in Greece; Towards modern Archimedean turbines for recovering greek small*

Kimon PAPATHANASOPOYLOS, Efthimios ZERVAS (Hellenic Open University, School of Natural Sciences and Technology - Greece)

*“Determinants of cities’ GHG emissions: a comparison of five global cities”* by Edoardo CROCI, Sabrina MELANDRI, Tania MOLteni (IEFE - Centre for Research on Energy and Environmental Economics and Policy Università Commerciale - Italy)

*“Statistical estimations in climate and environmental changes; utilization of alternative energy sources for better climate management”* by Dr. Zoe D. ZIACA (International Hellenic University – Greece)

*“Impact of climate, geography and economic structure of each country on CO<sub>2</sub> emissions”* by Christina BAMPATSOU (Democritus University of Thrace, Dept. Of International Economic Relations & Development – Greece), Efthimios ZERVAS (Hellenic Open University – Greece)

*“Comparison of the thermal characteristics and temperature profile of the ground in Cyprus with other Mediterranean countries”* by Georgios FLORIDES, Panayiotis D. POULOUPATIS, Soteris KALOGIROU, Vassilios MESSARITIS, Ioannis PANAYIDES, Zomenia ZOMENI, George PARTASIDES, Andreas LIZIDES, Eleni SOPHODEOUS and Kostas KOUTSOUMPAS (Cyprus)

*“The European approach to energy audits of buildings in the Republic of Kazakhstan with the development of projects to implement energy – saving measures”* by Dr. Mars GABASSOV, Dr. Saule SAGNAEVA (Scientific-Research Institute of Economy, Information, Transport, Telecommunications (EITT) - Kazakhstan), Ms. Adilzhan JAILAGANOV (Almaty Institute of Energy and Communication – Kazakhstan)

*hydropower potential”* by Vassilios STERGIOPOULOS (ASPETE, Higher School of Pedagogical and Technological Education – Greece), Alkistis STERGIOPOULOU and Efrossini KALKANI (National Technical University of Athens – Greece)

*“Model-based investigation of biomass utilization paths for different regions”* by Frank SCHWADERER, Magnus FROHLING, Frank SCHULTMANN (Institute for Industrial Production (IIP), Karlsruhe Institute of Technology (KIT) – Germany)

*“Contribution of biomass to decentralised energy supply with the objective of public services and supply security for rural regions in Germany”* by Thilo SEIDENBERGER, Cornelia VIEHMANN and Dr.-Ing. Daniela THRAN (German Biomass Research Centre (DBFZ) – Germany)

*“Biogas renewable process for combined fuel cell electricity generation”* by S. VASILEIADIS (Hellenic Open University – Greece), Dr. Z. ZIACA (International Hellenic University – Greece) and M. TSIMPA (Hellenic Open University – Greece)

*“Geothermal Energy Development in S.E. Europe in the Context of the GEOFAR Project”* by Nicholas Sofianos (IENE – Greece)

17:30

## 6. Round Table

(Perspectives for the establishment of the BSEC Strategic Green Alliance between Academia and Entrepreneurship)

21:00

Farewell dinner

Conference  
Venue

National and Kapodistrian University of Athens  
*Central Building - Neo Amphitheatro*  
30 El. Venizelou (Panepistimiou) Av., Centre area  
Athens

Contact  
details

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