

Conference agenda

Tuesday, December 14, 2021

15:30-17:00 Opening Session – Welcome Address

15.20-15.30 test of the technical settings with the speakers

15.30-17.00 session

G.B. Zorzoli, AIEE President, Conference General Chair

Matteo Di Castelnovo, Director, Master in Sustainability and Energy Management (MaSEM) e SDA Associate Professor of Practice in Energy Economics, President of the Program Committee

Carlo Di Primio, AIEE Past President, Steering Committee Chair

Carlo Andrea Bollino, Honorary President AIEE and Chair of the Organization Committee

Keynote speakers:

Majid Al Moneef, Chair of the IAEE 2023 Committee, Chairman of the International Advisory Committee of King Abdullah Petroleum Studies and Research Center (KAPSARC)

Perspectives of the impact of energy transitions on the oil and gas producing states

Lucile Dufour, Senior Policy Advisor, International Institute for Sustainable Development - IISD, Canada

The latest findings of the Energy Policy Tracker. The key trends in energy-related COVID-19 response since the beginning of the pandemic in 2020, notably in G20 countries, how to align public money commitments with an accelerated clean energy transition towards net zero emissions.

Fereidoon Sioshansi, President Menlo Energy Economics, USA

The evolution of consumer demand in the electricity sector

Wednesday, December 15, 2021

09.00 -10.30 Virtual concurrent session (cycle 1-4) - 1h.30'

08.50-09.00 test of the technical settings with the speakers

09.00-10.30 session

01 Energy markets - case studies

Chair: Michele Governatori, Energy Programme Lead, ECCO, Italy

02 Energy transition and transformation

Chair: Anna Creti, Professor, Université Paris Dauphine, France

03 Current Gas Market Dynamics

Chair: Carlo Di Primio, AIEE, Italy

04 Electricity vehicles and smart mobility

Chair: Peter D. Lund Professor in Advanced Energy Systems, Aalto University, Finland

10.40 -11.40 Dual Plenary Sessions - 1h.00'

10.30-10.40 test of the technical settings with the speakers

10.40-11.40 session

EU towards 2050 and the energy security concerns

Chair: **Livio de Santoli**, Professor Sapienza University of Rome, Deputy Rector for Energy Policies, President of FREE Coordination (Coordination of Renewable Sources and Energy Efficiency), Italy

Regulatory challenges and market developments

Chair: **Guido Bortoni**, Past President of the Italian Energy Regulatory Authority

11.50-13.20 Virtual concurrent session (cycle 5-8) - 1h.30'

11.40-11.50 test of the technical settings with the speakers

11.50-13.20 session

05 Carbon pricing and collaborative governance for de-carbonization

Chair: **Nicola Sorrentino**, University of Calabria, Italy

06 Energy efficiency in buildings

Chair: **Federico Santi**, University of Rome La Sapienza, Italy

07 Renewable Energy markets

Chair: **Max Rinck**, Head of "New Concepts and Technologies" at VIK e.V.

08 Energy distribution and energy storage

Chair: **Lucia Parisio Visconti**, University Bicocca, Italy

13.20 -14.20 Break

14.30-16.00 Dual Plenary Sessions - 1h.30'

14.20-14.30 test of the technical settings with the speakers

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Energy industry challenges to a low-carbon economy, the RES and gas role in the transition

Chair: **Carlo Di Primio**, AIEE President, Italy

Sustainable mobility challenges for the transition targets

Chair: **G.B. Zorzoli**, AIEE President, Italy

16.10 -17.40 Virtual concurrent session (cycle 9-12) - 1h.30'

16.00-16.10 test of the technical settings with the speakers

16.10-17.40 session

09 Energy efficiency, the efforts to achieve net-zero climate goals

Chair: Prof. **Çelik Çiğdem** Professor İstanbul Okan University

10 Biofuels, hydrogen and other sustainable technologies: current situation and alternative scenarios

Chair: **Antonio Geracitano**, RSE Italy

11 Current Oil and Coal Market Dynamics

Chair: **Davide Tabarelli**, President NE Nomisma Energia, Italy

12 The role of nuclear power in energy transition

Chair: **Giuseppe Zollino**, Professor University of Padua, Italy

Thursday, December 16, 2021

09.00 -10.30 Virtual concurrent session (cycle 13-16) - 1h.30'

08.50-09.00 test of the technical settings with the speakers

09.00-10.30 session

13 Energy security and new technologies for sustainability

Chair: **Nevenka Hrovatin** Professor School of Economics and Business, University of Ljubljana, Slovenia

14 The Electricity market: risks and opportunities

Chair: **Elena Fumagalli**, Assistant Professor, Copernicus Institute of Sustainable Development, Utrecht University, The Netherlands

16 Circular economy and Smart Solutions

Chair: **Ionut Purica**, Professor, Advisory Center for Energy and Environment, Romanian Academy, Romania

10.40 -11.40 Dual Plenary Sessions - 1h.00'

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Grid security and new technologies

Chair: **Salvatore Pinto**, Axpo President, Italy

Energy Efficiency and the future strategies of the energy industry

Chair: **Gurkan Kumbaroglu** - Professor University of Boğaziçi, President of TRAE- The Turkish Association of Energy Economics

11.50-13.20 Virtual concurrent session (cycle 17-20) - 1h.30'

11.40-11.50 test of the technical settings with the speakers

11.50-13.20 session

17 GHG reduction and technological progress

Chair: Tiziano Pignatelli, ENEA and Co-Chair Task Force on Techno-economic Issues - UN-ECE Air Convention, Italy

18 The changing geopolitics of energy

Chair: Federico Boffa, Professor of Applied Economics, Free University of Bolzano, Italy

19 Pathway to transition: the cooperation role

Chair: Cecilia Camporeale, ENEA, Italy

20 Energy and Carbon Market

Chair: Lu-Tao Zhao, Beijing Institute of Technology, China

13.20 -14.20 Break

14.20 -15.30 Plenary Session - 1h.00'

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The Hydrogen revolution

Chair: Carlo Andrea Bollino, AIEE Honorary President, Professor University of Perugia, Italy

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09.00-10.30 **session**

1. Energy markets - case studies

Chair: Michele Governatori, Energy Programme Lead, ECCO, Italy

Appraisal of Nigeria's energy planning: prospects for sustainable development

Presenter: Olasunkanmi Olusogo Olagunju, University of Lagos
Authors: Olasunkanmi Olusogo Olagunju, Olufemi Muibi Saibu, Isaac Chii Nwaogwugwu, Maryam Modupe Quadri, Oludayo Ayodeji Akintunde

Assessment of the French capacity mechanism: a market tool guaranteeing power security of supply?

Presenters: Guillaume Gonzalez and Jean-Baptiste Arnoux, RTE Réseau de Transport d'électricité, France
Authors: Guillaume Gonzalez, Jean-Baptiste Arnoux, Jules Parolin

The Impact of Electricity Outages on Health Outcomes of Children in Kyrgyzstan

Presenter Yermone Sargsyan, Institute of Economic Studies Faculty of Social Science Charles University Prague, Czech Republic
Author: Yermone Sargsyan

3. Current Gas Market Dynamics

Chair: Carlo Di Primio, AIEE, Italy

Incentive Schemes to Eliminate Natural Gas Flaring & Venting

Presenter: Giacomo Benini, Stanford University, USA
Authors: Giacomo Benini, Valerio Dotti

The methane supply chain, from production to transport and consumption, in the light of the EU strategy

Presenter: Carla Mazziotti, National Research Council, Italy
Authors: Carla Mazziotti, Vincenzo Delle Site

Solidarity measures: assessment of strategic gas storage coordination among EU member states on EU natural gas supply resilience

Presenter: Marzia Sesini, Université Paris-Dauphine, Institut Europlace de Finance, France
Authors: Marzia Sesini, Sara Giarola, Adam D. Hawkes

Retail price convergence across EU electricity and natural gas markets

Presenter: Consuelo Rubina Nava, Università degli Studi di Torino, Italy
Authors: Consuelo Rubina Nava, Ernesto Cassetta, Maria Grazia Zoia

2. Energy transition and transformation

Chair: Anna Creti, Professor, Université Paris Dauphine, France

Iran's Hydrogen Investment Potentials towards Smooth Energy Transition

Presenter: Mohammad Hassan Hassan zadeh, Shahid Beheshti University, Iran
Authors: Fazel M. Farimani, Soroush Rahmatian and Mohammad Hassanzadeh

Electrification of the hard-to-abate chemical sector: implication for Net-Zero power systems in Europe

Presenter: Clément Cabot, Mines ParisTech, France
Authors: Clément Cabot, Manuel Villavicencio

The decarbonization of the European chemical industry: a scenario analysis

Presenter: Linda Reinert, SDA Bocconi School of Management, Italy
Authors: Linda Reinert

4 Electricity vehicles and smart mobility

Chair: Peter D. Lund, Aalto University, Finland

Optimize urban traffic through vehicle-to-grid price system

Presenter: Marina Bertolini, University of Padova, Italy
Authors: Marina Bertolini, Marco Agostini, Massimiliano Coppo, Giulia De Matteis

Optimizing a company fleet of electric vehicles under technical and societal uncertainties

Presenter: Lukas Gnam, University of Applied Sciences Burgenland, Austria
Authors: Lukas Gnam, Markus Schindler, Christian Pfeiffer, Markus Puchegger

Electric vehicles participation in load frequency control of an interconnected power system is not sustainable

Presenter: Nallapaneni Manoj Kumar, School of Energy and Environment, City University of Hong Kong, China
Authors: Nallapaneni Manoj Kumar and Shauhrat S Chopra

10.40 -11.40 Dual Plenary Sessions - 1h.00'

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EU towards 2050 and the energy security concerns

Livio de Santoli, Professor Sapienza University of Rome, Deputy Rector for Energy Policies, President of FREE Coordination - Coordination of Renewable Sources and Energy Efficiency, Italy

Marco Falcone, Government Relations and Issues Manager, Esso Italiana, Exxon Mobil Group, Italy

Silvia Pariente-David, Consultant on energy and climate change and Senior advisor – Center for Mediterranean Integration, World Bank, France

Alicia Mignone, Senior Energy Advisor, MAECI and Ex President of the IEA Committee on Energy Research and Technology, Italy

Regulatory challenges and market developments

Chair: **Guido Bortoni**, Past President of the Italian Energy Regulatory Authority

Jean Michel Glachant, Director of the Florence School of Regulation and the Holder of the Loyola de Palacio Chair

Ozge Ozden, Secretary General ELDER - Association of Electricity Distribution

Fabrizio Falconi, Energy Regulation Coordinator - Regulatory Affairs Area, Utilitalia -Federation of the Italian Utilities, Italy

11.50-13.20 Virtual concurrent session (cycle 5-8) - 1h.30'

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5. Carbon pricing and collaborative governance for de-carbonization

Chair: **Nicola Sorrentino**, University of Calabria, Italy

Carbon tax with macroeconomic stimulus: GDP as an inferior good

Presenter: Jim Stodder, Boston University, USA

Authors: Jim Stodder, Ivan Julio

Collaborative governance in the European transmission network investment for cross-border cooperation

Presenter: Diyun Huang, University of Leuven, Belgium

Authors: Diyun Huang, Geert Deconinck

Carbon Contract for Differences for the development of low-carbon hydrogen in Europe

Presenter: Corinne Metta-Versmessen, Chaire Economie du Climat, France

Authors: Corinne Chaton, Coline Metta

The European Commission proposal for reaching -55% GHG reductions by 2030 in the journey towards climate neutrality

Presenter: Paolo Bertoldi, European Commission DG JRC, Italy

Authors: Paolo Bertoldi

6. Energy efficiency in buildings

Chair: **Federico Santi**, University of Rome La Sapienza, Italy

Energy efficiency of buildings: a simple but accurate way to perform calculations

Presenter: Giuseppe Dell'Olio, GSE, Italy

Authors: Giuseppe Dell'Olio

The extent of barriers and drivers to energy efficient retrofits in residential sector: A bibliometric analysis

Presenter: Janez Dolšak, School of Economics and Business, Slovenia

Authors: Janez Dolšak

Energy efficiency as a key factor for the sustainability pathway of organizations. The case of the European Space Agency ESA-ESRIN in Rome

Presenter: Francesco Castellani, Studio Santi, Italy

Authors: Francesco Castellani, Maria Carmen Falvo, Federico Santi, M. Della Fornace

Energy efficiency improvement strategies for important historic buildings used as offices.

A case study in Rome

Presenter: Alessandro Pelliccia, University of Rome La Sapienza, Italy

Authors: Federico Santi, Francesco Castellani, A. Zuppa, V. Di Prospero, L.D. Antonuzzi, R.A. Aciri

7. Renewable Energy markets

Chair: **Max Rinck**, Head of "New Concepts and Technologies" at VIK e.V.

Assessment of renewable energy sources impact on Nuclear power: The case of France

Presenter: Jacques Percebois, Montpellier University, France
Authors: François Benhmad, Jacques Percebois

Renewable energy proliferation for energy security: role of cross border electricity trade

Presenter: Aarushi Mahajan, LM Thapar School of Management, Thapar Institute of Engineering and Technology, India
Authors: Amit Prakash Jha, Sanjay Kumar Singh, Aarushi Mahajan

Comparing social costs of decarbonization: electrification versus green fuels (biomethane)

Presenter: Francesco Gullì, Bocconi University, Italy
Authors: Francesco Gullì, Maurizio Repetto

Techno-economic analysis of a blockchain-enabled rooftop solar photovoltaic based peer-to-peer energy market using agent-based model

Presenter: Animesh Singh, School of Energy and Environment, City University of Hong Kong, Kowloon, Hong Kong
Authors: Animesh Singh, Nallapaneni Manoj Kumar, Shauhrat S. Chopra

8. Energy distribution and energy storage

Chair: **Lucia Parisio Visconti**, University Bicocca, Italy

Impact of incentive regulation for battery sizing and management

Presenter: Angelo Facchini, IMT School for Advanced Studies Lucca, Italy
Authors: Angelo Facchini, Alessandro Rubino, Alfonso Damiano

Dynamics of power markets and competition

Presenter: Ionut Purica, Hyperion University /Advisory Center for Energy and Environment, Romania
Authors: Ionut Purica

The value of flexibility: a cost benefit analysis of Merlin project

Presenter: Karim Anaya, University of Cambridge, UK
Authors: Karim Anaya, Michael G Pollitt

13.20 -14.20 – Break

14.30-16.00 Dual Plenary Sessions - 1h.30'

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Energy industry challenges to a low-carbon economy, the RES and gas role in the transition

Chair: **Carlo Di Primio**, AIEE President, Italy

Alessandro Lagostena, Regulatory & Public Affairs Head of Energy & Environmental Studies, ERG, Italy

Simone Nisi, Head of Institutional Affairs, Edison, Italy

Ahmet Türkoğlu, CEO - Energy Exchange Istanbul (EXIST), Turkey

Andrea Zaghi, General Manager Eletticità Futura, Italy

Sustainable mobility challenges for the transition targets

Chair: **G.B. Zorzoli**, AIEE President, Italy

Amela Ajanovic, Assistant Professor & Senior Research Scientist, Energy Economics Group, Vienna University of Technology, Austria

Mariarosa Baroni, President NGV Italy

Francesco Naso, General Secretay *MOTUS-E* member of the European Platform for Mobility, Italy

Franco Del Manso, International Environment Affairs Manager UNEM - Energy Union for Mobility, Italy

Dario Soria, General Manager Assocostieri, Italy

16.10 -17.40 Virtual concurrent session (cycle 9-12) - 1h.30'

16.00-16.10 test of the technical settings with the speakers

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9. Energy efficiency, the efforts to achieve net-zero climate goals

Chair: **Çelik Çiğdem** Professor İstanbul Okan University

Co-movement between Commodity and Equity Markets Revisited - An Application of the Thick Pen Method

Presenter: Sania Wadud, The University of Aberdeen, UK

Authors: Sania Wadud, Marc Gronwald, Robert B. Durand, Seungho Lee

Carbon Border Adjustment Mechanism in the Transition to Net-Zero Emissions: Collective Implementation and Distributional Impacts

Presenter: Sigit Perdana, EPFL, Switzerland

Authors: Sigit Perdana, Marc Vielle

COVID and exercise of market power in electric markets

Presenter: Carlo Andrea Bollino, University of Perugia, Italy

Author: Carlo Andrea Bollino

10. Biofuels, hydrogen and other sustainable technologies: current situation and alternative scenarios

Chair: **Antonio Geracitano**, RSE Italy

Energy, Economic, and Environmental Accounting for Biomass Fuels in Ethiopia

Presenter: Amsalu Woldie Yalew, Ca' Foscari University of Venice, Italy

Authors: Amsalu Woldie Yalew

Liquid alternative fuels for transport decarbonisation: meeting the fit-for-55 goals

Presenter: David Chiaramonti, Politecnico di Torino, Italy

Authors: David Chiaramonti, Carlo Cambini, Matteo Prussi, Chiara Ravetti

H₂ pipelines? Not a new issue: the Snam experience

Presenter: Luca Bacchi, Snam, Italy

Authors: Luca Bacchi, Giampaolo Annoni, Marino Crespi

11. Current Oil and Coal Market Dynamics

Chair: **Davide Tabarelli**, President NE Nomisma Energia, Italy

Estimating upstream oil production cost for optimized oil allocation: the Nigeria case

Presenter: Kaase Gbakon, Emerald Energy Institute, University of Port Harcourt, Nigeria

Authors: Kaase Gbakon, Joseph Ajienka, Joshua Gogo, Omowumi Iledare

Who refines oil and why: disentangling investment decisions from countries and companies

Presenter: Olivier Massol, IFP School, France

Authors: Olivier Massol, Arthur Thomas, Quentin Hoarau

Strategic co-optimization on the Italian day-ahead and ancillary services markets: implications for the phase out of coal and for the path towards carbon neutrality

Presenter: Federico Pontoni, Fondazione Eni Enrico Mattei, Italy

Authors: Federico Pontoni, Annamaria Zaccaria, Ilaria Livi, Edoardo Somenzi

Oil price forecasting with some genetic algorithm variable selection model

Presenter: Krzysztof Drachal, Faculty of Economic Sciences, University of Warsaw, Poland

Authors: Krzysztof Drachal

12. The role of nuclear power in energy transition

Chair: **Giuseppe Zollino**, Professor University of Padua, Italy

An Analysis of Electricity Decarbonization in Japan with Nuclear and Renewable by Long-term Optimal Power Generation Mix Model considering Nuclear Fuel Cycle

Presenter: Hotaka Minatomoto, The University of Tokyo, Japan

Authors: Hotaka Minatomoto, Ryoichi Komiyama, Yasumasa Fujii

Economic viability of nuclear power plants in India - a cost benefit analysis

Presenter: Ankita Sangle, Vishwakarma University, Pune, India

Authors: Kakali Mukhopadhyaya, Ankita Sangle

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13. Energy security and new technologies for sustainability

Chair: Nevenka Hrovatin Professor School of Economics and Business, University of Ljubljana, Slovenia

Energy security: towards a new model

Presenter: Nikolai Mouraviev, Abertay University, UK

Authors: Nikolai Mouraviev

Evaluating the effect of energy technology choices on linkages between sustainable development goals

Presenter: Magdalena Klemun, The Hong Kong University of Science and Technology

Authors: Magdalena Klemun, Sanna Ojanperae, Amy Schweikert

Blockchain-enabled dynamic grapevoltaic farms for selected wine risk regions on a global level and the potential opportunities for symbiotic industrial networks

Presenter: Nallapaneni Manoj Kumar, School of Energy and Environment, City University of Hong Kong, Kowloon, Hong Kong

Authors: Nallapaneni Manoj Kumar, Shauhrat S Chopra

14. The Electricity market: risks and opportunities

Chair: Elena Fumagalli, Copernicus Institute of Sustainable Development, Utrecht University, The Netherlands

The responsiveness of the aggregate electricity demand to wholesale electricity prices

Presenter: Tarun Khanna, Hertie School, Germany

Authors: Tarun Khanna, Oliver Ruhnau

Bidding and Investment in Wholesale Electricity Markets: Pay-as-Bid vs Uniform-Price Auctions

Presenter: Yueting Yu, Tilburg University, The Netherlands

Authors: Yueting Yu, Bert Willems

When does reserves market exist?

Presenter: Dongchen He, Tilburg University, The Netherlands

Authors: Dongchen He

16. Circular economy and Smart Solutions

Chair: Ionut Purica, Professor, Advisory Center for Energy and Environment, Romanian Academy, Romania

Circular economy, patents and industrial designs: evidence from European countries

Presenter: Enrico Gabriele, LUMSA University, Italy

Authors: Enrico Gabriele

Installable Potential of Small Modular Reactors and Renewable Energy for Achieving Carbon Neutrality in Electric Power System

Presenter: Ryoichi Komiyama, The University of Tokyo, Japan

Authors: Ryoichi Komiyama, Yasumasa Fujii

The digital ecological footprint. How can we engage to reduce its environmental impact?

Presenter: Gianluca Carrino, AIEE, Italy

Authors: Gianluca Carrino

10.40 -11.40 Dual Plenary Sessions - 1h.00'

10.30-10.40 test of the technical settings with the speakers

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Grid security and new technologies

Chair: Salvatore Pinto, Axpo President, Italy

Salvatore Pinto, President Axpo Italy

Matteo Codazzi, CEO, CESI, Italy

Luciano Martini, General Manager Technologies of Transmission and Distribution Department, RSE, Italy

Christian D'Adamo, Head of Network and Systems Operation and Maintenance – Enel Global Infrastructure and Networks, Italy

Energy Efficiency and the future strategies of the energy industry

Chair: Gurkan Kumbaroglu - Professor University of Boğaziçi, President of the Turkish Association of Energy Economics

Sandro Neri, Federmanager - Federation of Italian Managers, Italy

Dario Di Santo, Head Manager, Italian Federation for energy efficiency – FIRE, Italy

Ferdinando Pozzani, CEO, TEON, Italy

11.50-13.20 Virtual concurrent session (cycle 17-20) - 1h.30'

11.40-11.50 test of the technical settings with the speakers

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17. GHG reduction and technological progress

Chair: Tiziano Pignatelli, ENEA and Co-Chair Task Force on Techno-economic Issues - UN-ECE Air Convention, Italy

Socio-economic impacts of ambitious GHG reduction targets with explicit green technology information

Presenter: Maximilian Banning, GWS mbH, Germany

Authors: Christian Lutz, Maximilian Banning, Lisa Becker, Markus Flaute

Impact of technological progress on sectoral carbon emissions: does it differ across country's income level?

Presenter: Chris Belmert Milindi, University of Pretoria, South Africa

Authors: Chris Belmert Milindi, Roula Inglesi-Lotz

Local authorities contribution to GHG emission reductions: the Covenant of Mayors experience

Presenter: Paolo Bertoldi, European Commission DG JRC, Italy

Authors: Paolo Bertoldi

Road Public Transport decarbonisation: a comparison among vehicle technologies

Presenter: Maria Pia Valentini, ENEA, Italy

Authors: Maria Pia Valentini, Silvia Orchi, Valentina Conti, M. Corazza

18. The changing geopolitics of energy

Chair: Federico Boffa, Professor of Applied Economics, Free University of Bolzano, Italy

Electricity Market Relationship between Great Britain and its Neighbors: Distributional Effects of Brexit

Presenter: Christopher Ball, Forschungszentrum Jülich, Germany

Authors: Christopher Ball, Philip Mayer, Stefan Vögele, Kristina Govorukha, Dirk Rübhelke, Wilhelm Kuckshinrichs

Firm self-generation decision and outage losses: evidence from emerging and developing Asian countries

Presenter: Anam Shehzadi, University of Kassel, Germany

Authors: Anam Shehzadi, Heike Wetzel

Liberalisation of Electricity Market in Bulgaria in the context of the challenges of the European Green Deal and the geopolitics of the European energy transformation

Presenter: Lyubomira Gancheva, Sofia University 'St. Kliment Ohridski', Bulgaria

Faculty of Economics and Business Administration

Author: Lyubomira Gancheva

19. Pathway to transition: the cooperation role

Chair: **Cecilia Camporeale**, ENEA, Italy

ENEA for Development Cooperation

Presenter: Valentina Gentile, ENEA ISV-FUND, Italy

Authors: Valentina Gentile, Carla Costigliola, Paola Cicchetti

Experiences and challenges for solar energy in MENA Region

Presenter, Simona De Iuliis, ENEA TERIN-STS, Italy

Author: Simona De Iuliis

Renewable energy potential maps for Lesotho

Presenter, Massimo D'Isidoro, ENEA SSPT-MET-INAT, Italy

Authors: Massimo D'Isidoro, Lina Vitali, Francesco Pasanisi, Gaia Righini, Mabafokeng Mahahabisa, Mosuo Letuma, Muso Raliselo, Mokhethi Seitlheko.

meetMED II: Regional Cooperation for an Energy Efficient Future

Presenter, Corinna Viola, ENEA DUEE-SPS-MPE, Italy

Authors: Corinna Viola, Alicia Tsitsikalis

Renewable Energy in Djibouti: a Political, Technical and Economic Assessment

Presenter, Cecilia Camporeale, ENEA SSPT-STS, Italy

Authors: Cecilia Camporeale, Massimo Angelone, Giacomo Pallante, Marco Stefanoni

20. Energy and Carbon Market

Chair: **Lu-Tao Zhao**, Beijing Institute of Technology, China

Hodrick–Prescott filter-based hybrid ARIMA–SLFNs model for carbon price forecasting

Presenter: Zhao-Rong Huang, Shenzhen University, China

Authors: Zhao-Rong Huang, Quan-De Qin

Analysis on the current situation of China's power system reform

Presenter Yu-Zhu Wang, North China Electric Power University, China

Author: Yu-Zhu Wang, Jin-Liang Zhang

The impact of the global stock and energy market on carbon market: a perspective from EU ETS

Presenter: Zi-Jie Wang, Peking University, China

Authors: Zi-Jie Wang, Lu-Tao Zhao

Analysis of Key Factors Influencing Carbon Market from the time-varying perspective : evidence with a Markov-switching VAR approach

Presenter: Hui Hu, University of Science and Technology Beijing, China

Authors: Hui Hu, Ming-Fang Li

13.20 -14.20 Break

14.30 -15.30 **Plenary Session** - 1h.00'

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The Hydrogen revolution

Chair: **Carlo Andrea Bollino**, AIEE Honorary President, Professor University of Perugia, Italy

Rami Shabaneh, Senior Research Associate, Energy Markets & Industrial Development, KAPSARC, Saudi Arabia

Dina Lanzi, Head of Technology Development BUH2, Snam, Italy

Paolo D'Ermo, General Secretary, WEC Italy
