AIEE ASSOCIAZIONE ITALIANA ECONOMISTI DELL'ENERGIA

the Italian Affiliate of the IAEE International Association for ENERGY ECONOMICS

10th AIEE Energy Symposium



Conference Program

Current and Future Challenges to Energy Security

Torino, 25-26 November 2026

in cooperation with

University of Turin, Department of Economics and Statistics "Cognetti de Martiis"

UNIVERSITÀ DI TORINO

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Conference Overview

The Italian Association of Energy Economists – AIEE, affiliate of the International Association for Energy Economics – IAEE, is organizing the 10th AIEE Energy Symposium on Energy Security on November 25–26, 2026, with the scientific contribution and cooperation of the University of Turin, Department of Economics and Statistics "Cognetti de Martiis".

The Symposium has become an important annual forum for discussing the evolving concept of energy security in a rapidly changing geopolitical context. The 2026 edition will address key challenges shaping the global energy landscape, including the Middle East energy crisis, the emergence of new geopolitical and industrial actors, the impact of artificial intelligence and data centres on energy demand, and the transformation driven by the energy transition.

A central focus will be the link between climate change, energy policy and national security, with attention to mitigation and adaptation strategies and their implications for a decarbonised energy system. Through plenary sessions, keynote presentations and concurrent sessions, the event will offer an international platform for networking and knowledge exchange in the modern setting of the University of Turin, in the context of a historic city, once Italy's first capital, known for elegant baroque architecture, grand piazzas, renowned museums, rich cuisine and the Alps backdrop.

An appointment we do not want to miss!

Who should attend

The conference is intended for:

- Academics and scholars working in the fields of energy, natural resources or environmental economics
- Policy makers and government officials, international institutions and regulatory agencies
- Energy analysts working for local authorities, development agencies, consumer bodies, NGOs
- Business leaders and practitioners

Organization

GENERAL CONFERENCE CHAIR: **VALERIA DI COSMO**, Associate professor in applied economics at the Department of Economics and Statistics "Cognetti de Martiis", University of Turin, Italy

SCIENTIFIC COMMITTEE CHAIR: **FULVIO FONTINI,** Full Professor of Applied Economics, Department of Legal Sciences, University of Salento, Lecce, Italy

PROGRAMME COMMITTEE CHAIR: **CECILIA CAMPOREALE,** Research scientist, Technical and Strategic Support Unit of the Department for Sustainability (SSPT-STS), ENEA, Italy

ORGANIZATION COMMITTEE CHAIR: **CARLO DI PRIMIO**, AIEE Past President and Council Member, Italy

ORGANIZATION AND COORDINATION: **ANKA SERBU**, External Relations & Communication, AIEE, Italy

THE MEMBERS OF THE SCIENTIFIC COMMITTTEE

Amela Ajanovic, Professor TU WIEN, Energy Economics Group (EEG), Austria Senior Research Scientist, Vienna University of Technology
Anna Alberini Full Professor University of Maryland
François Benhmad, Associate Professor, University of Montpellier, France
Marina Bertolini, Department of Statistical Sciences, University of di Padua, Italy
Federico Boffa, Professor of Applied Economics Faculty of Economics and Management, Free University of Bolzano, Italy
Carlo Andrea Bollino, Professor University of Perugia, Italy
Cecilia Camporeale, Research scientist, Technical and Strategic Support Unit of Department for Sustainability (SSPT-STS), ENEA, Italy
Leila Dagher, Associate Professor Lebanese American University, USA
Edmar Luiz Fagundes de Almeida, Professor and Researcher Energy Institute (IEPUC) of the Catholic University of Rio de Janeiro – PUC-Rio
Eric Delarue, Professor KU Leuven Department of Mechanical Engineering, Belgium
Paul Ekins, Director UCL Institute for Sustainable Resources, UK
Georg Erdmann, Professor, Institute for Energy Technology, Berlin University, Germany
Ivan Faiella, Directorate General for Economics, Statistics and Research, Banca d'Italia, Italy
Massimo Filippini, ETH Zurich and Università della Svizzera Italiana, Switzerland
Elena Fumagalli, Assistant Professor, Copernicus Institute of Sustainable Development, Utrecht University, The Netherlands
Antonio Geracitano, Adjunct Professor, Tor Vergata University of Rome, Italy
Monica Giulietti, Professor of Industrial Economics at Nottingham University Business School, U.K.
Reinhard Haas, Professor, Technical University of Vienna, Austria
Nevenka Hrovatin, Professor, School of Economics and Business, Faculty of Economics, University of Ljubljana, Slovenia
Mario Jorizzo, Head of the Circular Economy Division of the Department for Sustainability, Enea, Italy
Tomas Kåberger, Professor, Technology Management and Economics, Director of Chalmers Energy Area of Advance, Sweden
Gürkan Kumbaroglu, Professor, Vice Rector Bogazici University, Türkiye
Xavier Labandeira, Professor, University of Vigo, Spain
Arturo Lorenzoni, Professor of Energy Economics and Electricity Market Economics at the Department of Industrial Engineering of the University of Padua, Italy
Peter Lund, Professor in Engineering Physics and Advanced Energy Systems at Aalto University, Finland
Baltasar Manzano, Professor University of Vigo, Spain
Carlo Mari, Professor Department of Management and Business Administration, University of Chieti-Pescara, Italy
Luis Mundaca, Professor, IIIEE - Lund University, Sweden
Silvia Pariente-David, Senior advisor and consultant on energy and climate change issues, France
Lucia Visconti Parisio, Professor, Bicocca University, Italy
Jacques Percebois, Professor, Montpellier University. Italy
Maximillian Rinck, Head of Trading and Procurement @ BDEW e., Germany
Alessandro Rubino, Professor University of Bari, Italy
Stefano Verde, Professor, Department of Political Economy and Statistics, University of Siena
Nils-Henrik M von der Fehr, Professor Head of Department University of Oslo, Norway
Lu-Tao Zhao, Professor in School of Management and Economics and Deputy Director of the Center for Energy and Environmental Policy Research, Beijing Institute of Technology, China

Conference Short Agenda

Wednesday - November 25, 2026

08.30-17.00 **Registration**

09.00-10.30 **Concurrent sessions n. 1-4**

01 **Data-Driven Energy Transition (D2ET) -** *special session* *(Room: 3D136)*
Chair: Laura Andolfi, SnT - University of Luxembourg, Luxembourg

02 **Hydrogen Prospects: The Role of Infrastructure and Trade** *(Room: 3D233)*
Chair: Agatino Nicita, Institute for advanced Technology for Energy "Nicola Giordano" - CNR, Italy

03 **Electricity Market Design** *(Aula Magna)*
Chair: Lucia Visconti Parisio, University of Milan - Bicocca, Italy

04 **Digital Technologies in the Energy Sector** *(Room: 3D101)*
Chair: Daniele Riccardo Incerti, Innovation Manager Blindo.pro, Italy

10.30-10.50 *Coffee break* (20 minutes)

10.50-11.30 **Opening Welcome Address** *(Aula Magna)*

University of Turin:

Stefania Maria Beolé, Delegate of the Rector, Full Professor of Experimental Physics of Fundamental Interactions and Applications at the University of Turin
Elisabetta Ottoz, Head of the Dipartment of Economics and Statistics Cognetti de Matiis
Marcello Baricco, Energy Transition Inter-university Group
Valeria Di Cosmo, Conference General Chair, Associate Professor of Applied Economics at the "Cognetti de Martiis" Department of Economics and Statistics

Italian Association of Energy Economists - AIEE

Guido Bortoni, AIEE President, Italy

Welcome messages to the participants

Gilberto Pichetto Fratin, Minister of Environment and Energy Security
(*in video conference, preregistered message*)
Jarrod Agen, Deputy Assistant to the President, Executive Director, National Energy Dominance Council, USA
(in video conference)

Keynote speaker

Laura Cozzi, Director of Sustainability, Technology, and Outlooks IEA
(*in video conference*)

11.30-12.20 **Parallel sessions**

Round Table (50') *(Aula Magna)*
Chair: **Guido Bortoni,** AIEE President, Italy

IAERE Special Session (50') *(Room: 3D136)*

Chair: **Fulvio Fontini**, University of Salento, Italy

12.20-13.00 **Keynote speech** (40') *(Aula Magna)*

Lucia Parisio, Full Professor of Public Economics at the University of Milano-Bicocca and Board member, Italy

13.00-14.00 *Lunch (1h)*

14.00–15.30 **Plenary Session** (1h:30') *(Aula Magna)*

Security, Transition and Geopolitical Uncertainty: a challenge for the international energy markets

Chair: **Adnan Shihab-Eldin**, Senior Visiting Research Fellow at Oxford Institute for Energy Studies founding member of the Kearney Energy Transition Institute, UK

15.30-17.00 **Plenary Session** (1h:30') *(Aula Magna)*

Energy Market Design: the strategies for stability, autonomy and competitiveness

Chair: **Derek Bunn**, Professor, London Business School, UK

17.00-18.30 **Concurrent sessions n. 5-8**

05 Nuclear Power in Energy System *(Aula Magna)*
Chair: Valeria Di Cosmo, University of Turin, *Italy*

06 Hydrogen Prospects: End-Use Applications *(Room: 3D233)*
Chair: Emanuele Piccinno, AIEE, Italy

07 Market-Based Instruments for the Energy Transition *(Room: 3D136)*
Chair: Claudio Agostini, Universidad Adolfo Ibañez, Chile

08 Designing Climate Policy for a Low-Carbon Future *(Room: 3D101)*
Chair: Maria Teresa Vespucci, University of Bergamo, Italy

19.30-22.00 - **Gala dinner**

Arcadia Restaurant

(Address: Galleria Subalpina - Piazza Castello)

Arcadia Restaurant in Turin is a place in the heard of the historic Center of the city, located in the beautiful Galleria Subalpina between Piazza Castello and Piazza del Risorgimento.
A very refined and elegant place set in an old historic location with impressive columns and high ceilings that give a sense of grandeur to the entire place, with a stunning dining room.
It offers an excellent Italian cuisine, a refined menu which consists primarily of dishes inspired by the territory.





Thursday - November 26, 2026

09.00-10.30 **Concurrent sessions n. 9-12**

09 Institutions, Regulation and Energy Transition *(Room: 3D233)*
Chair: Antonio Geracitano, Adjunct Professor, Tor Vergata University of Rome, Italy

10 Global dynamics of the fossil fuel market - *Cancelled*

11 Driving the Electric Shift: From Policy Rules to Grid Integration *(Room: 3D136)*
Chair: François Benhmad, Montpellier University, France

12 Enabling the Energy Transition: Technology, Decarbonisation and Energy Security *(Aula Magna)*
Chair: Alessandro Chiodi, E4SMA, Italy

10.30-11.00 *Coffee break* (30 minutes)

11.00-12.30 **Concurrent sessions n. 13-16**

13 **Presentation of the papers that will receive the "Best Student Paper Award"** *(Aula Magna)*

14 **Energy Security, Markets and Geopolitical Challenges** *(Room: 3D136)*
Chair: Florian Boehnke, Independent Commodity Intelligence Service (ICIS), Germany

15 **Energy Poverty, Vulnerability and Resilience Across Regions** *(Room: 3D101)*
Chair: Alessandro Sapio, Parthenope University of Naples, Italy

16 **Decarbonizing the Residential Sector**
Chair: Sylvain Weber, HES-SO / Haute École de Gestion de Genève, Switzerland *(Room: 3D233)*

12.30-13.00 **Best Student Paper Award Ceremony** (30') *(Aula Magna)*

13.00-14.00 *Lunch* - (1h)

14.00-15.00 **Keynote speech** (1h) *(Aula Magna)*

Anna Alberini, Professor in the Department of Agricultural and Resources Economics at University of Maryland, USA

15.00-16.30 **Concurrent sessions n. 17-20**

17 **Energy Security and Strategic Dependencies: Global Perspectives** *(Aula Magna)*
Chair: Adonis Yatchew, University of Toronto Max Gluskin House, Canada

18 **Energy Transition: Integrating Renewables into Energy Markets** *(Room: 3D136)*
Chair: Francesco Marghella, ACEA, Italy

19 **Renewable Energy Communities: Policy, Markets and Technological Innovation** *(Room: 3D233)*
Chair: Marina Bertolini, University of Padova, Italy

20 **Emerging Electricity Demand and Power System Resilience** *(Room: 3D101)*
Chair: Boris Ortega, Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg

16.30-18.00 **Concurrent sessions n. 21-24**

21 **Decarbonizing Industry: Efficiency and Clean Energy Technologies** *(Room: 3D136)*
Chair: Pier Paolo Raimondi, Florence School of Transnational Governance, European University Institute, Italy

22 **Wind Power and Energy System Integration** *(Room: 3D233)*
Chair: Benezeth Ntamuti, Studio Santi, Tanzania

23 **Residential Energy Systems: Flexibility and Consumer Response** *(Room: 3D101)*
Chair: Rose Rwegasira, Studio Santi, Italy

24 **Decarbonizing Italy: Energy System Pathways** *(Aula Magna)*
Chair: Maurizio Gargiulo, E4SMA, Italy

Conference Program

Wednesday - November 25, 2026

09.00-10.30 **Concurrent sessions n. 1-4** (1h.30' each)

1. Data-Driven Energy Transition (D2ET) - special session *(Room: 3D136)*

Chair: Laura Andolfi, SnT - University of Luxembourg, Luxembourg

Designing distribution grid tariffs for a carbon-neutral future
Presenter: Laura Andolfi, SnT - University of Luxembourg, Luxembourg
Authors: Joachim Geske, Boris Ortega, Laura Andolfi, Martin Weibelzahl

A proposed PyPSA-LU framework for assessing battery storage impacts on security of supply in Luxembourg
Presenter: David Romero-Quete, Luxembourg Institute of Sciences and Technology, Luxembourg
*Authors:*David Romero-Quete, Sina Hassanzadeh, Stefania Gomez and Pedro Rodriguez

Beyond decarbonisation: energy security implications of battery-electric bus fleet electrification
Presenter:Marcin Seredynski, University of Luxembourg, Luxembourg
Authors: Marcin Seredynski, Lex Bentner

Modeling nuclear power in Italy: the impact of network representation and temporal detail
Presenter: Matilde Cais, Politecnico of Torino, Italy
Authors: Matilde Cais, Matteo Nicoli, Alice Di Bella, Laura Savoldi

2. Hydrogen Prospects: The Role of Infrastructure and Trade *(Room: 3D233)*

Chair: Agatino Nicita, Institute for advanced Technology for Energy "Nicola Giordano" - CNR, Italy

When backbone infrastructure meets hydrogen certification: techno-economic insights into cross-border hydrogen trade in Europe
Presenter: Vincenzo Romano, Politecnico di Torino, Italy
Authors:Vincenzo Romano, Paolo Marocco, Marta Gandiglio, Massimo Santarelli

Economic Viability and Environmental Assessment of Scaled-Up Photoelectrochemical Cells for Decentralized Green Hydrogen Production
Presenter: Mauro Giorgianni, Institute for advanced Technology for Energy "Nicola Giordano" - CNR, Italy
Authors: Mauro Giorgianni, Agatino Nicita, Gaetano Maggio, Stefano Trocino, Sonia Sofi

Green hydrogen and water security in the Mediterranean: assessing the water-energy nexus and policy challenges towards 2050
Presenter: Agatino Nicita, Institute for advanced Technology for Energy "Nicola Giordano" - CNR, Italy
Authors: Agatino Nicita, Gaetano Squadrito, Gaetano Maggio

3. Electricity Market Design *(Aula Magna)*

Chair: Lucia Visconti Parisio, University ofi Milan - Bicocca, Italy

Coordinating Multilayer Power System Flexibility: From Mathematical Optimization to Compute-Bounded Stochastic Scenario Exploration
Presenter: Théotime Coudray, UMI SOURCE, Université de Versailles-Saint-Quentin-en-Yvelines, France
Authors: Théotime Coudray, Stéphane Goutte

Granularity Meets Strategy: 15-Minute Markets, Portfolio Bidding, and Electricity Price Formation
Presenter: Lucia Visconti Parisio, Università di Milano - Bicocca, Italy
Authors: Lucia Visconti Parisio, Matteo Pelagatti, Paolo Maranzano

From Hidden to Explicit Congestion: The Welfare Effects of Bidding-Zone Subdivision—The Case of the Norwegian Electricity Market
*Presenter:*Marta Moretto, Cambridge Judge Business School, University of Cambridge, UK
*Authors:*Marta Moretto, Michael G. Pollitt

An integrated mathematical and computational framework for electricity market design: Syria as a case study
Presenter: Bassam Shikha, Damascus University, Syria
Authors: Bassam Shikha

4. Digital Technologies in the Energy Sector *(Room: 3D101)*
Chair: Daniele Riccardo Incerti, Innovation Manager Blindo.pro, Italy

Agentic AI as the operational layer of collective selfconsumption: closing the jars-to-rec value gap and making the condominium aggregator economically viable
Presenter: Christian Mari, Politecnico of Milan, Italy
Authors: Christian Mari

A Review-Informed Digital Shadow for AI-Assisted Building Energy Management
Presenter: Vahid Arabzadeh, Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg,
Authors: Vahid Arabzadeh, Sasan Jafarnejad, Sasu Saalasti, Raphaël Frank

Data Centre Capacity Expansion and European Energy System Dynamics: Assessing Demand Absorption, Carbon Intensity, and Renewable Moderation
Presenter: Mohammad Hosseinzadeh, University of Pavia, Italy
Authors: Mohammad Hosseinzadeh, Claudio Moscardini

10.30-10.50 Coffee break - (20 minutes)

10.50-11.30 **Opening Welcome Address** *(Aula Magna)*

University of Turin:
Stefania Maria Beolé, Delegate of the Rector, Full Professor of Experimental Physics of Fundamental Interactions and Applications at the University of Turin
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Keynote speaker
Laura Cozzi, Director of Sustainability, Technology, and Outlooks IEA
(*in video conference*)

Parallel sessions

11.30-12.20 **Round Table** (50') *(Aula Magna)*

Chair: **Guido Bortoni,** AIEE President, Italy

Speakers:
Livio de Santoli, Member of ARERA - The Italian Regulatory Authority for Energy, Full Professor of Environmental Technical Physics at Sapienza University of Rome
Gianluca Calabretta, Director General, Enea - Italian National Agency for New Technologies, Energy and Sustainable Economic Development
Luca Benedetti, Head of Energy Studies, Statistics and Sustainability GSE, Italy

11.30-12.20 **IAERE Special Session** (50') *(Room: 3D136)*

Chair: **Fulvio Fontini**, AIEE Vice President, Professor University of Salento, Italy

Climate change, catastrophes and the Mediterranean basin: outcomes from the rice-med model under uncertainty
Presenter: Marta Castellini, Department of Economics and Management “Marco Fanno”, University of Padua, Italy; Fondazione Eni Enrico Mattei (FEEM), Milan, Italy
Authors: Marta Castellini, Camilla Gusperti, Veronica Lupi, Sergio Vergalli

European climate policy, GHG Emissions and R&D in a panel setting: Economic Development perspectives using a Functional principal component analysis
Presenter: Massimiliano Mazzanti, University of Ferrara & SEEDS, Italy
Authors: Massimiliano Mazzanti, Antonio Musolesi, Hervè Cardot

Policy anticipation and consumer response to incentives for electric and low-emissions cars: evidence from the Italian car market
Presenter: Attilio Di Sabato, University of Turin, Italy
Authors: Anna Alberini, Attilio Di Sabato, Valeria Di Cosmo

12.20-13.00 **Keynote speech** (40') *(Aula Magna)*

Lucia Parisio, Full Professor of Public Economics at the University of Milano-Bicocca and Board member, Italy

13.00-14.00 *Lunch* - (1h)

14.00–15.30 **Plenary Session** (1h:30') *(Aula Magna)*

Security, Transition and Geopolitical Uncertainty: a challenge for the international energy markets

Chair: **Adnan Shihab-Eldin**, Senior Visiting Research Fellow at Oxford Institute for Energy Studies founding member of the Kearney Energy Transition Institute, UK

speakers:

Federico Augusti, CEO Cleverse, Italy
Luca Bragoli, Chief Regulatory & Public Affairs Officer di ERG, Italy
Massimo Derchi, Chief Infrastructure Operations, Engineering & Construction Officer Snam
Igor Malgieri, Head of International Affairs, Edison, Italy

15.30-17.00 **Plenary Session** (1h:30') *(Aula Magna)*

Energy Market Design: the strategies for stability, autonomy and competitiveness

Chair: **Derek Bunn**, Professor, London Business School, UK

speakers:

Eleonora Agostinacchio, Head of Central Affairs, Enel Italia, Italy
Giuseppe Bergesio, CEO Iren Energia, Italy
Cecilia Gatti, Regulatory & Institutional Affairs Director Axpo Italia
Matteo Leonardi, Co-Founder & Executive Director ECCO - Italian Climate Change Think Tank, Italy
Federico Mauri, Institutional Affairs - Public policy & market design, Eni, Italy

17.00-18.30 **Concurrent sessions n. 5-8** (1h.30' each)

5. Nuclear Power in Energy System *(Aula Magna)*
Chair: Valeria Di Cosmo, University of Turin, Italy

Entry Costs and the Viability of Nuclear Generation Technology in a Stackelberg–Cournot Electricity Market
Presenter: Lior Gallo, The Bank of Israel and Tel Aviv University, Israel
Authors: Lior Gallo, Irena Milstein and Asher Tishler

On the Impact of Renewables and Nuclear power on Electricity Prices: The case of France
Presenter: François Benhmad, Montpellier University, France
Authors: François Benhmad, Jaques Percebois

When Nuclear Falters: Electricity Trade, Gas Prices, and Energy Security in France
Presenter: Alberto Sergio, Swedish University of Agricultural Sciences, Sweden
Authors: Alberto Sergio, Anna Alberini, Francesco Pietro Colelli

The impact of variable renewable energy sources on balancing markets
Presenter: Valeria Di Cosmo, University of Turin, Italy
Author: Valeria Di Cosmo

6. Hydrogen Prospects: End-Use Applications *(Room: 3D233)*

Chair: Emanuele Piccinno, AIEE, Italy

How RFNBO Regulation Reshapes the Cost and Geography of Green Ammonia Production in Europe
Presenter: Alessandro Magnino, Politecnico of Torino, Italy
Authors: Alessandro Magnino, Paolo Marocco, Massimo Santarelli, Marta Gandiglio

Beyond diesel: cost-optimal choices for a cleaner and more secure European railway network
Presenter: Gabriele Peyrani, Politecnico of Torino, Italy
Authors: Gabriele Peyrani, Marta Gandiglio, Paolo Marocco, Pierpaolo Cherchi, Massimo Santarelli

Nuclear Hydrogen for Hard-To-Abate sectors
Presenter: Vincenzo D'Ascanio, Tiemes Srl, Italy
Authors: Vincenzo Maria D'Ascanio, Alice Cozzi, Claudio Meroni

7. Market-Based Instruments for the Energy Transition *(Room: 3D136)*

Chair: Claudio Agostini, Universidad Adolfo Ibañez, Chile

Which Energy Insecurity Gets Funded? Fiscal Selectivity in EU ETS Auction-Revenue Use across the EU-27
Presenter: Andrés Felipe Olarte Peña, Technische Universität Berlin, Germany
Authors: Andrés Felipe Olarte Peña

FTR economic inefficiencies under the flow-based approach in Europe
Presenter: Diyun Huang, KULeuven, Belgium
Authors: Diyun Huang, Geert Deconinck

ETS2 revenue use for energy efficiency and citizens' support
Presenter: Iva Zverinova, Charles University, Czech Republic
Authors: Iva Zverinova, Milan Ščasný, Ivan Savin, Jeroen van den Bergh

The role of natural gas subsidies in shaping the generation mix and hindering decarbonization: the case of Magallanes in Chile
Presenter: Claudio Agostini, Universidad Adolfo Ibañez, Chile
Authors: Claudio Agostini, Shahriyar Nasirov, Miguel Castillo, Rene Henriquez, Nelso Vasquez

8. Designing Climate Policy for a Low-Carbon Future *(Room: 3D101)*

Chair: Maria Teresa Vespucci, University of Bergamo, Italy

Distributional CO_2 emissions control in multi-horizon generation and transmission expansion planning via increasing convex order
Presenter: Maria Teresa Vespucci, University of Bergamo, Italy
Authors: Maria Teresa Vespucci, Giovanni Micheli

Environmental Policy and International Trade: New Evidence from Structural Gravity
Presenter: Laura Bonacorsi, University of Milan – Bocconi, Italy
Authors: Elena Verdolini, Laura Bonacorsi

Emission Caps versus Hourly Renewable Mandates: Storage, Flexibility, and Decarbonization Costs in Türkiye's Power Sector
Presenter: Nurdan Yağmur Bulut, Gebze Technical University, Turkiye
Authors: Kemal Sarıca, Nurdan Yağmur Bulut

Pollution Pricing in the Indo-Gangetic Plains and Himalayan Foothills
Presenter: Govinda Timilsina, World Bank, USA
Authors: Govinda Timilsina, Hagen Kruse, Franziska Ohnsorge, Martin Heger, Wendan Zhang

19.30-22.00 **Gala dinner**



Thursday - November 26, 2026

09.00-10.30 **Concurrent sessions n. 9-12** (1h.30' each)

9. Institutions, Regulation and Energy Transition *(Room: 3D233)*
Chair: Antonio Geracitano, Adjunct Professor, Tor Vergata University of Rome, Italy

Effects of Policy Reversals on the Emissions from Passenger Cars: Evidence from Slovakia
Presenter: Marián Sedlák, Charles University, Czech Republic
Authors: Marián Sedlák, Anna Alberini, Milan Ščasný

Ensuring Information Quality Under Mandatory Disclosure Regimes: The Case of Industrial Energy Audits in Italy
Presenter: Martina Mancini, University of Roma Tre, Italy
Authors: Martina Mancini, Elina De Simone, Alessia Naccarato, Francesca Fortuna and Chiara Martini

Single Price vs. Profit Sharing capacity auctions in power markets
Presenter: Fulvio Fontini, Università del Salento, Italy
Authors: Fulvio Fontini, Michele Moretto

10. Global dynamics of the fossil fuel market
Cancelled

11. Driving the Electric Shift: From Policy Rules to Grid Integration *(Room: 3D136)*
Chair: François Benhmad, Montpellier University, France

The economic benefits of electric vehicles integration in energy communities: comparison of smart charging and vehicle-to-grid
Presenter:Andrea Franzoso, Politecnico of Torino, Italy
Authors: Andrea Franzoso, Michel Noussan, Gabriele Fambri, Marco Badami

Taking bans seriously: intended and unintended consequences of restricting car imports into Ukraine
Presenter:Volodymyr Svirskyi, Charles University Environment Center, Czech Republic
Authors: Volodymyr Svirskyi, Anna Alberini, Milan Ščasný

Capacity screening errors in battery reuse and implications for stationary energy storage
Presenter: Ahreum Han, Research Institute, Mano inc., Republic of Korea
Authors: Ahreum Han, Taeheum Hwang

12. Enabling the Energy Transition: Technology, Decarbonisation and Energy Security *(Aula Magna)*
Chair: Alessandro Chiodi, E4SMA, Italy

Empirical Determinants of Energy Import Independence in European States: Re-evaluating the Decarbonization–Security Nexus
Presenter:Philip Walsh, Toronto Metropolitan University, Canada
Authors: Philip Walsh

The technological foundations of energy efficiency: technological sovereignty, critical green technologies and the twin transition
Presenter:Nikolaos Chatzistamoulou, University of Patras, Greece
Authors: Nikolaos Chatzistamoulou

Pathways to the 2035 NDCs: energy-system enablers of decarbonisation and energy security
Presenter: Alessandro Chiodi, E4SMA, Italy
Authors: Alessia Elia, Tommaso Pillon, Alessandro Chiodi, Maurizio Gargiulo, Pietro Lubello, James Price, Marie Pied, Alaa Al Khourdajie, Adam Hawkes, Shivika Mittal

Towards sustainable, secure, and socially acceptable energy futures: a systematic literature review of energy scenario sustainability assessment
Presenter:Andrea Fumagalli, Politecnico di Milano, Italy
Authors: Andrea Fumagalli, Davide Chiaroni

10.30-11.00 *Coffee break* - (30 minutes)

11.00-12.30 **Concurrent sessions n. 13-16** (1h.30' each)

13. Presentation of the papers that will receive the "Best Student Paper Award" *(Aula Magna)*

14. Energy Security, Markets and Geopolitical Challenges *(Room: 3D233)*
Chair: Florian Boehnke, Independent Commodity Intelligence Service (ICIS), Germany

Market design and cost of multi-carrier energy independency
Presenter: Hicham Rahali, University of Luxembourg, Luxembourg
Authors: Hicham Rahali, Joachim Geske

Development and application of a methodological framework for assessing the resilience of military infrastructure against climate change/ Case study 116Combat Wing, Araxos, Achaia, Greece
Presenter: Ilias Manolis, University of Aegean, School of Environment, Grece
Authors: Ilias Manolis, Athanasios Sfetsos, Christos Makropoulos, Antonis Skouloudis

Assessing supply security in Central and Eastern Europe after the EU–Russia gas phase-out
Presenter: Florian Boehnke, Independent Commodity Intelligence Service (ICIS), Germany
Authors: Florian Boehnke, Andreas Schröder, Aura Sabadus

The Missing Supply: A Structural Counterfactual Decomposition of Oil Price Dynamics
Presenter: Marta Visconti, Fondazione Eni Enrico Mattei (FEEM), Italy
Authors: Marta Visconti, Niloofar Adel, Andrea Bastianin, Luca Pedini

15. Energy Poverty, Vulnerability and Resilience Across Regions *(Room: 3D101)*
Chair: Alessandro Sapio, Parthenope University of Naples, Italy

Socio-economic and Urban Determinants of Energy Poverty in Africa: an approach based on the water-energy-food nexus
Presenter: José Dos Venal, Universidade da Beira Interior, Portugal
Authors: José Dos Venal, António Cardoso Marques, Tiago Jorge Afonso

Energy poverty and active ageing in Italy
Presenter: Alessandro Sapio, Parthenope University of Naples, Italy
Authors: Alessandro Sapio, Martina Polito

Citizens' acceptance of energy-saving measures in times of crisis: evidence from Germany, Austria, Italy, the Netherlands and Poland
Presenter: Veronica Lupi, Joint Research Centre, European Commission - Ispra, Italy
Authors: Veronica Lupi, Katharina Gangl, Christoph Ungemach, Andra Blasco

16. Decarbonizing the Residential Sector *(Room: 3D136)*
Chair: Sylvain Weber, HES-SO / Haute École de Gestion de Genève, Switzerland

Encouraging structural changes to private homes to reduce carbon emissions: a systematic review and meta-analysis of (quasi-)experimental evidence
Presenter: Sven Hansteen, RWI - Leibniz-Institute for Economic Research, Germany
Authors: Sven Hansteen, Lukas Tomberg, Diana Danilenko, Tarun M Khanna, Jan C Minx, Mark Andor

Control Before Compensation? Household Preferences for Flexibility Across Residential Energy Services
Presenter: Sylvain Weber, HES-SO / Haute École de Gestion de Genève, Switzerland
Authors: Sylvain Weber, Laurent Ott, Matthïas Ribard

Capitalisation of energy efficiency in the residential housing market: spatial econometric modelling
Presenter: Milan Scasny, Charles University, Czech Republic
Authors: Krystof Vertat, Milan Scasny

Short-term energy affordability risk under climate stress: an interpretable AI framework for early warning and policy design
Presenter: Elisa Trujillo-Baute, Universitat de Lleida, Spain
Authors: Elisa Trujillo-Baute, Álvaro Gomez

12.30-13.00 **Best Student Paper Award Ceremony** (30') *(Aula Magna)*

13.00-14.00 *Lunch* (1h)

14.00-15.00 **Keynote speech** (1h') *(Aula Magna)*

Anna Alberini, Professor in the Department of Agricultural and Resources Economics at University of Maryland, USA

15.00-16.30 **Concurrent sessions n. 17-20** (1h.30')

17. Energy Security and Strategic Dependencies: Global Perspectives *(Aula Magna)*
Chair: Adonis Yatchew, University of Toronto Max Gluskin House, Canada

The Energy Quadrilemma: Integrating Ethics into the Energy Trilemma Framework
Presenter: Adonis Yatchew, University of Toronto, Canada
Authors: Adonis Yatchew

National Conceptualization of Energy Security: A Comparative Analysis of Russia, China, the US and the EU in the Context of the Blockage of the Strait of Hormuz
Presenter: Daniel Mucke, Expert Analytical Association "Sovereignty, Germany
Authors: Daniel Mucke

One dependency for another? Mapping and reducing Europe's exposure to Russia, the United States and China
Presenter: Virginie de Araújo-Recchia, Attorney and Public Policy Analyst, France
Authors: Virginie de Araújo-Recchia

18. Energy Transition: Integrating Renewables into Energy Markets *(Room: 3D136)*
Chair: Francesco Marghella, ACEA, Italy

A coherent model for socio economic evaluation of renewable energy projects
Presenter: Jerome Massiani, University of Milan – Bicocca, Italy
Authors: Jerome Massiani

When Does Renewable Electricity Reduce Emissions? Evidence from Fossil-Dependent Emerging Markets
Presenter: Evzen Kocenda, Charles University, Czech Republic
Authors: Evzen Kocenda, Nundo Chillima

A Grid Resilience Assessment Framework For Tanzania's Energy Transition
Presenter: Pauline Tumaini, Studio Santi Limited, Italy/Tanzania
Authors: Pauline Tumaini, Benezeth Benedictor Ntamuti, Fidelis John Tiotem, Minaclara Allan Lwiwa

NES2Go: A Multi-Objective Dispatch and Decision-Support Framework for Integrating Small Modular Reactors in Industrial Clusters
Presenter: Luca Mastrandrea, Politecnico di Torino & ECM Group - UGent, Belgium
Authors: Thijs Duvillard, Louis De Backere, Luca Mastrandrea, Lieven Vandevelde, Riccardo Rossa, Greet Van Eetvelde

19. Renewable Energy Communities: Policy, Markets and Technological Innovation *(Room: 3D233)*
Chair: Marina Bertolini, University of Padova, Italy

State-aware cloud-edge orchestration for resilient der flexibility dispatch: a closed-loop architecture for operational visibility and assurance
Presenter: Ebenezer Anikwenwa, Luxembourg Institute of Science and Technology (LIST), Luxembourg
Authors: Ebenezer Anikwenwa, Diego Aragon Sotelo, Abdelhaq Dabaghia, David Pera, Pedro Rodriguez Cortes

The role of low-temperature hydrogen storage in achieving high self-sufficiency and decarbonization targets in a renewable energy community
Presenter: Marta Gandiglio, Department of Energy - Politecnico of Torino, Italy
Authors: Omar Najoui, Paolo Marocco, Massimo Santarelli, Marta Gandiglio

Peer-to-peer energy trading within energy communities: the case of Chile's net billing framework
Presenter: Cristian Cortes-Aguirre, Universidad Adolfo Ibañez, Spain
Authors: Carlos Silva, Cristian Cortes-Aguirre, Claudio Agostini & Joaquín Matthei

From data to policy: what can we learn from the Italian Renewable Energy Communities development so far?
Presenter: Marina Bertolini, University of Padova, Italy
Authors: Marina Bertolini, Marta Castellini; Sergio Vergalli

20. Emerging Electricity Demand and Power System Resilience *(Room: 3D101)*
Chair: Boris Ortega, Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg

Quantifying Capacity Risk Scenarios Emerging from Data Centre Electricity Demand in a Small-scale Power Grid
Presenter: Sasu Saalasti, Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg,
Authors: Sasu Saalasti, Vahid Arabzadeh, Raphaël Frank

From Duck to Turtle: 2040's Synchronized Demand Response Reshapes Distribution Grid Load
Presenter: Boris Ortega, Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg
Authors: Joachim Geske, Boris Ortega, Laura Andolfi, and Zihan Yang

One Facility to Rule Them All: Infrastructure Vulnerabilities the European Energy System
Presenter: Nicholas Gouw, University of Bologna, Italy
Authors: Nicholas Gouw, Sergej Zikovic

How detailed transmission constraints reshape Italy's energy transition
Presenter: Matteo Catania, Politecnico of Milan, Italy
Authors: Matteo Catania, Giacomo Bastianel, Fabrizio Fattori, Paolo Colbertaldo, Hakan Ergun

16.30-18.00 **Concurrent sessions n. 21-24** (1h.30')

21. Decarbonizing Industry: Efficiency and Clean Energy Technologies *(Room: 3D136)*
Chair: Pier Paolo Raimondi, Florence School of Transnational Governance, European University Institute, Italy

Does lower energy intensity deliver actual energy savings? Rebound and backfire effects in EU agribusiness
Presenter:Kacper Mańkowski, Poznan University of Life Sciences, Poland
Authors: Kacper Mańkowski, Bartłomiej Bajan; Aldona Mrówczyńska-Kamińska

Enhancing energy security through heat pumps: an industrial, energy and climate perspective
Presenter: Pier Paolo Raimondi, Florence School of Transnational Governance, European University Institute, Italy
Authors: Pier Paolo Raimondi, Michel Noussan

Evidence on solar PV diffusion in the Italian Industrial sector
Presenter: Emna Kanzari, University of Palermo, Italy
Authors: Stefano Fricano, Gioacchino Fazio, Emna Kanzari

Quantifying permitting and construction drift in utility-scale solar PV: application of a project stability index (psi) to Italian case studies
Presenter: Cecilia Servi, Sapienza University of Rome, Italy
Authors: Cecilia Servi, Francesco Castellani, Maria Carmen Falvo, Federico Santi

22. Wind Power and Energy System Integration *(Room: 3D233)*
Chair: Benezeth Ntamuti, Studio Santi, Tanzania

Site-specific seasonal wind power forecasting for enhanced grid resilience: a machine learning simulator-forecaster framework
Presenter: Muhammad Arsalan, Fraunhofer IEE, Germany
Authors: Muhammad Arsalan, Abhinav Tyagi

What's next for wind repowering? from best practice to common practice: the future of repowering
Presenter: Francesco Peccianti, ERG, Italy
Authors: Francesco Peccianti, Manuel Pala

23. Residential Energy Systems: Flexibility and Consumer Response *(Room: 3D101)*
Chair: Rose Rwegasira, Studio Santi, Italy

When the peak moves: household flexibility under static time-of-use tariffs
Presenter: Elena Sestini, Unvierstity of Bologna, Italy
Authors: Elena Sestini

Salience of two-part energy tariffs: Quasi-experimental evidence from UK households' responses
Presenter: You Wu, University of Sheffield, UK
Author: You Wu

Beyond Average Temperature: Measuring Regional Heating and Cooling Requirements in Iran's Residential Sector
Presenter: Fazel Moridi Farimani, Shahid Beheshti University, Iran
Authors: Fazel Moridi Farimani, Sina Saeidi, Hamed Sahebhonar

24. Decarbonizing Italy: Energy System Pathways *(Aula Magna)*
Chair: Maurizio Gargiulo, E4SMA, Italy

The Spatial Value of Storage in a Decarbonising Italian Power System: A Multi-Zone Analysis to 2050
Presenter: Maurizio Gargiulo, E4SMA, Italy
Author: Maurizio Gargiulo, Ioannis Vrochidis, Claudio Pregagnoli, Alessandro Chiodi, Francesco Gracceva, Giuseppe Dino

Decarbonizing residential space heating and cooling across Italy's twenty regions: an energy system optimization model approach
Presenter: Icmi Safitri, Politecnico of Torino, Italy
Author: Icmi Safitri, Matteo Nicoli; Andrea Lanzini; Laura Savoldi

The role of flexible technologies in the future Italian energy scenarios
Presenter: Giuseppe Edoardo Dino, ENEA, Italy
Author: Giuseppe Edoardo Dino, Francesco Gracceva

Assessing the competitiveness of district heating for residential users: historical trends in real tariffs in Italy compared with alternative heating technologies
Presenter: Michel Noussan, Politecnico of Torino, Italy
Author: Michel Noussan, Chiara Monzani

