

AIEE

ASSOCIAZIONE
ITALIANA ECONOMISTI
DELL'ENERGIA

the Italian
Affiliate
of the

IAEE

International Association for
ENERGY ECONOMICS

8th AIEE Energy Symposium



Padua

**AIEE
2024**



Call for papers

Current and Future Challenges to Energy Security

Padua, 28-30 November 2024

in cooperation with



Interdepartmental Centre
"Giorgio Levi Cases" for Energy
Economics and Technology at
University of Padova (Italy)

with the patronage of



www.aieesymposium.eu

Conference Overview

Dear Energy Colleague,

Dear Energy Colleague,
The Italian Association of Energy Economists - AIEE, affiliate of the International Association for Energy Economics - IAEE, is organizing the **8th AIEE Energy Symposium on Energy Security** on November 28-30, 2024, in cooperation with the Interdepartmental Centre "Giorgio Levi Cases" for Energy Economy and Technology at the University of Padua, in its traditional format as an in person event.

Events in the last few years have demonstrated that the energy transition depends on a wide range of issues, mainly energy security, to proceed at a steady pace and at scale. Climate policy is a priority around the world but current experience also demonstrates that mitigation actions are not enough to combat climate change, so investing in adaptation is crucial. That requires continuing investment to assure reliable and affordable energy.

The flare of the Russian-Ukrainian conflict in February 2022 has focused global attention on the need for a reliable and stable energy sector, making energy security a priority again on the agendas of governments around the world. An agenda that cannot fail to consider among its priorities the protection of the population both as consumers and citizens, taking into account their health

with respect to emissions and pollutants, as well as the identification of actions that each government can put in place for adaptation to climate change.

The **AIEE Energy Symposium on Energy Security** has become an important yearly appointment a forum to continuing the dialogue of the past editions analysing the transformations of the concept of energy security in the new geopolitical context, exploring new and existing trends, creative solutions of new technologies, the emergence of new market conditions and of new market operators.

A comprehensive program, with Plenary sessions and keynote presentations, and several concurrent sessions will give the attendees from all over the world the occasion to participate in an interactive, collaborative networking and information-sharing event, in the prestigious context of the **University of Padua** one of the oldest universities in Europe and in the world, established in 1222, and the modern **Interdepartmental Centre "Giorgio Levi Cases"** for **Energy Economy and Technology**, only 30 km far from Venice.

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: **MATTEO DI CASTELNUOVO**, AIEE President, Professor SDA Bocconi University

SCIENTIFIC COMMITTEE CHAIRS: **ARTURO LORENZONI**, Professor University of Padua, Italy

LUCIA VISCONTI PARISIO, Professor Bicocca University and AIEE Council Member, Italy

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

List of topics to be addressed

The other themes will largely be identified from the clustering of relevant presentations submitted by the participants.

Access to energy	New electricity market design
Green innovation, biofuels and bioenergy	The changing geopolitics of energy and global governance
Hydrogen for the energy transition	Energy and industrial competitiveness
Behavioral energy economics	Renewable energy sources and industries
Energy and climate change mitigation and adaptation	Regulation of energy network industries
Europe energy road map to 2050	Regulation and taxation of energy markets
Energy performance in buildings	Technologies and economic growth towards a zero emission society
Emissions trading schemes, promoting energy efficiency	Extending the scope of European energy regulation
Energy and emission modelling	Blockchain experiments and regulation
Disruptive business models in energy sector	Electricity demand response, self-consumption, electricity tariffs and smart meters
Carbon border adjustment measures	Local energy communities, big data and energy security
Energy security for a more resilient society	Sustainable energy systems
Energy security: the impact of COVID19	Smart grids, Microgrids and energy security
Energy supply and security	Real-time tariffs
Strategic contribution of energy storage to energy security	The utility of the future
Energy storage and electrification– effects on the market	Electric mobility for a sustainable future
Energy security and the new technologies in energy transition	Economics oil and gas markets, developments in LNG markets
Security risks in the electricity sector	The changing geopolitics of energy and global governance
European perspectives of energy security in the global context	Nuclear energy markets
Energy vulnerability in developed countries	Market instruments for energy efficiency
Energy transition funds	The TSO role and evolution
Sectorial approach to energy efficiency in industry	The future of transportation
Community and supply chain	New electricity market design
Economic sustainability	

Call for Abstracts - Important deadlines

Call for abstracts opens on: **May 15, 2024**
 Deadline for abstract submission: **July 15, 2024**
 Abstract acceptance result: **July 30, 2024**

Submission information:

Concurrent sessions will be organized from accepted abstracts.

Authors wishing to make paper presentations during the Concurrent Sessions must submit an abstract that briefly describes the research topic to be presented.

Submitted abstracts should include (1) overview, (2) methods, (3) results and (4) conclusions, conforming to the structure outlined in the abstract template. Abstracts are limited to no more than two pages in length.

Submit your abstracts to: <https://www.aieesymposium.eu/abstract-submission/>

Authors will be notified by July 30, 2024, of their paper status. Authors whose abstracts are accepted will have until **September 15, 2024, to submit their full papers** for publication in the conference proceedings.

While multiple submissions by individual or groups of authors are welcome, the abstract selection process will seek to ensure as broad participation as possible: each speaker is to deliver only one presentation in the conference. If multiple submissions are accepted, then a different co-author will be required to pay the speaker registration fee and present the paper.

Poster presentations are also encouraged for a dedicated Poster Session.

The subjects of the sessions will largely be identified from the clustering of relevant presentations submitted by the participants.

Conference proceedings

AIEE will publish the conference proceedings on-line on the conference website, in one **volume with open access**. The proceedings will contain the abstracts, it is not obligatory to submit the full paper, unless the author is interested to publish it.

CURRENT AND FUTURE CHALLENGES TO ENERGY SECURITY 2024

8th AIEE Energy Symposium – Conference Proceedings

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The AIEE does not copyright conference abstracts, papers and presentations. The author retains the copyright of their presented paper and gives permission to AIEE to post their abstract and presentation in the online proceedings.

Registration fees

Fees	Early Bird Registrations (until August 15)	Registrations (after August 15)
Speakers/Chairs (IAEE Members)	500 €	600 €
Speakers/Chairs (Non IAEE Members)	600 €	680 €
Students (IAEE Members)	300 €	350 €
Students (Non IAEE Members)	360 €	400 €
Delegate Young Professionals - IAEE	450 €	500 €
Delegate Young Professionals - Non IAEE	500 €	550 €
Attendees (IAEE Members)	700 €	750 €
Attendees (Non IAEE Members)	800 €	850 €
Spouse / Partner	180 €	180 €

Contact the Conference Secretariat:

Phone: +39.06.3227367; e-mail: aiee@aieesymposium.eu; assaiee@aiee.it

Conference website: <https://www.aieesymposium.eu/>

Conference Venue

Founded in 1222, the **University of Padua** is one of Europe's oldest and most prestigious universities, which has always enjoyed a large and vibrant international community of staff, students and alumni.

Today, it is made up of 32 departments and eight schools. Padua is part a network of historical research universities known as the Coimbra Group.

The university houses the oldest surviving permanent anatomical theatre in Europe, dating from 1595 and ever since has been one of the most prestigious in the country for its contributions to scientific and scholarly research. Its long history has hosted many illustrious figures, including **Galileo Galilei**, who taught here for 18 years and whose chair is preserved in the *Sala dei Quaranta*.

For 2023, in *World Best Global Universities Rankings*, the University of Padua is ranked as the 1st place institution in Italy, taking 43rd place in Europe and the world's 115th.

[\(see the virtual tour of the Bo' Palace on the Conference website\)](#)



Conference Programme

Thursday November 28, 2024

(Bo' Palace - University of Padua)

- 14.00 **Registration**
- 14:30-15:30 **Opening session** - Aula Magna
- 15:30-16:30 **Dual Plenary Sessions**
 - Grid security and new technologies
 - Energy efficiency and the future strategies of the energy industry
- 17.00 -18.30 **Welcome Cocktail** - Caffè Pedrocchi

Friday, November 29, 2024

(Interdepartmental Centre "Giorgio Levi Cases" for Energy Economy and Technology - Porta Portello)

- 08.30-17.00 **Registration**
- 08.30-10.30 **Welcome coffee**
- 09.00-10.30 1st cycle of concurrent sessions 1-4
- 10.30-11.30 **Dual Plenary Sessions**
 - EU towards 2030 and energy concerns
 - Regulation of energy markets
- 11.30-13.00 2nd cycle of concurrent sessions 5-8
- 13.00-14.00 **Lunch buffet**
- 14.30-16.00 **Dual Plenary Sessions**
 - Energy industry challenges to a low-carbon economy, the gas role in the transition
 - Sustainable mobility challenges for the transition targets
- 16.00-17.30 3rd cycle of concurrent sessions 9-12
- 20.00-22.00 **Gala Cocktail**

Saturday- November 30, 2024

(Interdepartmental Centre "Giorgio Levi Cases" for Energy Economy and Technology - Porta Portello)

- 08.30-10.00 **Welcome coffee**
- 09.00-10.30 4th cycle of concurrent sessions 13-16
- 10.30-12.00 5th cycle of concurrent sessions 17-20
- 12.30-13.00 **Light Lunch buffet**

Trip from Padua to Venice

We are planning a guided tour to Venice for the participants either on Saturday afternoon or on Sunday morning. We are making agreements with a tour operator, the schedule will be soon announced.



the program could be subject to changes depending on the number of papers received

Welcome to Padua

Padova (Padua) is a lively city, rich in cultural attractions and art, with many places to visit and many curiosities to know. at about 35 minutes by car from **Venice** and an hour from **Verona**,



Different historical eras and famous artists have given Padua a beauty revealed by a slow walk, all condensed into a historic center that can be visited on foot.

Padua is a true jewel that you can discover step by step, walking under the shelter of its porticoes in a romantic atmosphere of the historic buildings and the vitality of the squares.

Padova is named for its "**Saint without name**", for its "**Lawn without grass**" and for its "**Cafè without doors**": they are, respectively, **Sant'Antonio Cathedral**, **Prato della Valle** and **Caffè Pedrocchi**, three places you cannot miss during a visit to the city.

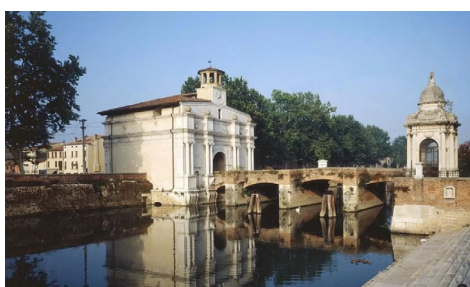
The domes of **Saint Anthony** known simply as **The Saint** - rise above the surrounding buildings and, if you have the chance to admire Padua from above, it will be easy to recognize them. The basilica was built between 1232 and the mid of the fourteenth century and is a pilgrimage destination. **Prato della Valle** is the second largest square in Europe and not far away from this building. It is undoubtedly one of the fascinating places in the city. It has an elliptical shape with a central island surrounded by a canal and 78 statues representing the most famous historical personalities of the city.

Palazzo della Ragione, known as "**Il Salone**", an architectural endeavor that had no equal at the time. It is 82 meters long and 27 meters wide. Its first construction dates to 1219, and in ancient times it was the seat of the city courts; the room features a cycle of medieval frescoes and the almost six-meter-high wooden horse, given to the city by one of the nobles of the time, certainly catches the eye.

Piazza della Signoria, is another famous square, the tower of **Palazzo del Capitano**, on the other hand, with its astronomical clock marking not only hours and minutes but also months, days and even astrological placements.

Padua is also a "**water city**" from **Porta Portello**, near the **Centre "Giorgio Levi Cases"** one can reach **Venice** by boat.

We can say that Padua is a colourful, lively city, which cannot help but talk about itself to those who visit it and know how to interpret it, where everyone can discover a lot of beauty, one step after another.



Caffè Pedrocchi, another symbol of Padua where the Conference **Welcome cocktail** will be offered, is an imposing neoclassical building called "without doors" because, since its inauguration in 1831 to 1916, it remained open day and night.

How to reach Padua



By airplane

Venezia "Marco Polo" Airport (49 km)

From the airport, travel to Padua by:

- SITA coach (every 30 minutes) until 10 pm

- Train from Venezia-Mestre railway station. The airport is linked to the train station by ATVO Fly bus or ACTV city bus no. 5

Other near international airports: <https://www.unipd.it/en/coming-padua>



By train

Padua is located between the cities of Vicenza, Treviso, Venice and Rovigo.

It is easily reachable by train: with the high-speed trains you can reach Padua without changes in about **3 hours from Rome or Turin**, just over **2 hours from Milan or Florence**. From Padua it is also possible to reach the main towns of the North-East by train: Venice and Vicenza in about half an hour, Verona and Treviso in an hour, Cortina in 2 hours, even with direct connection. The city center can be reached by foot in less than 20 minutes, or by public transport (buses and tram).