

9th AIEE Energy Symposium



Call for papers

Current and Future Challenges to Energy Security

Rome, 20-22 November 2025

in cooperation with



SAPIENZA
UNIVERSITÀ DI ROMA

Conference Overview

Dear Energy Colleague,

The Italian Association of Energy Economists - AIEE, affiliate of the International Association for Energy Economics - IAEE, is organizing the **9th AIEE Energy Symposium on Energy Security** on November 20-22, 2025, in cooperation with the scientific contribution of the Department of Astronautical, Electrical and Energy Engineering of the University of Rome "La Sapienza", as an in person event.

The AIEE Energy Symposium on Energy Security has become an important yearly appointment and an opportunity to discuss and exchange information, an opened dialogue on energy security in the context of the ongoing ecological transition. Since its first edition the AIEE Energy Symposium has made possible to analyse the transformations taking place in the process of the energy transition, exploring its implications, its strengths and weaknesses, highlighting the emerging innovations and trying to find new solutions and new technologies for this new world reality.

The 2025 edition has a special significance: ten years have passed since the ratification of the Paris Agreement, a historic agreement that has profoundly changed the policies of various countries. Climate change is now a reality which our governments must face in their economic, environmental and social development prospects, to avoid putting at risk the future generations.

Ten years after this historic event, the trajectory of the transition is still to be explored, because the transition depends on a wide range of issues: protection of the population both as consumers and citizens, taking into account their health with respect to emissions, pollutants and economic wellness, as well as the identification of actions that each government can put in place for adaptation to climate change. Attention must be paid to energy security to ensure the availability of energy at affordable prices for the citizens and also to ensure a fair market competitiveness. Great attention must also be paid to the climate policy, as mitigation actions are not enough to fight climate change, investment in adaptation, such as the development of climate-resilient infrastructures, food systems and supply chains, is crucial.

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 Rome "La Sapienza"** one of the oldest universities in Europe, in the heart of Rome, near the Colosseum.

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: **MASSIMO POMPILI**, Professor of Electrical Components and Technologies, Director of the Department of Astronautical, Electrical and Energy Engineering of the University of Rome "La Sapienza", 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

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
Green innovation, biofuels and bioenergy
Hydrogen for the energy transition
Behavioral energy economics
Energy and climate change mitigation and adaptation
Europe energy road map to 2050
Energy performance in buildings
Emissions trading schemes, promoting energy efficiency
Energy and emission modelling
Disruptive business models in energy sector
Carbon border adjustment measures
Energy security for a more resilient society
Energy security: the impact of COVID19
Energy supply and security
Strategic contribution of energy storage to energy security
Energy storage and electrification- effects on the market
Energy security and the new technologies in energy transition
Security risks in the electricity sector
European perspectives of energy security in the global context
Energy vulnerability in developed countries
Energy transition funds
Sectorial approach to energy efficiency in industry
Community and supply chain
Economic sustainability

New electricity market design
The changing geopolitics of energy and global governance
Energy and industrial competitiveness
Renewable energy sources and industries
Regulation of energy network industries
Regulation and taxation of energy markets
Technologies and economic growth towards a zero emission society
Extending the scope of European energy regulation
Blockchain experiments and regulation
Electricity demand response, self-consumption, electricity tariffs and smart meters
Local energy communities, big data and energy security
Sustainable energy systems
Smart grids, Microgrids and energy security
Real-time tariffs
The utility of the future
Electric mobility for a sustainable future
Economics oil and gas markets, developments in LNG markets
The changing geopolitics of energy and global governance
Nuclear energy markets
Market instruments for energy efficiency
The TSO role and evolution
The future of transportation
New electricity market design

Call for Abstracts - Important deadlines

The submission opens on **May 20, 2025** and will close on **July 15, 2025**.

The abstract acceptance result for the submission within **July 15** will be notified by **August 1st, 2025**

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 whose abstracts are accepted and will be presented in the conference sessions will have time until

December 15, 2025, to submit their full papers if they want to publish them in the conference proceedings.

It is not obligatory to send the full paper, unless the authors are interested to publish it.

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 2025
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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

Sapienza is one of the oldest Italian universities, founded in 1303 by Pope Boniface VIII. In the seven centuries since its foundation, it has been at the centre of the history of Rome and of the entire country; first as a university linked to the Popes, then as an autonomous Studium Urbis, gradually extending its academic prestige to new disciplines, both scientific and humanistic.

The first school for professional training in Engineering in Rome was founded in 1817 by Pope Pius VII for the preparation of specialized technicians for the Department of Water and Roads. In 1826 Pope Leo XII established that technical studies would also be part of the Archiginnasio della Sapienza.

In 1873 was founded the "School of Application for Engineers in Rome" which was separate from the University of Rome. Only in 1935 the school was transformed into the Faculty of Engineering

and became part of the University of Rome. In 1960 a provision was issued to reorganize the engineering studies which led to the establishment of nine courses in civil engineering (on construction, hydraulics, transport), mechanics, electrical engineering, chemistry, naval and mechanical engineering, aeronautics, mining, electronics and nuclear engineering. In November 2010, the Sapienza University was reorganized and the Faculty of Engineering was divided into the Faculty of Civil and Industrial Engineering and the Faculty of Information Engineering, Computer Science and Statistics.

The rooms are well-equipped with up to date technology, very latest facilities and free wireless connection to provide a highly professional welcome for to their guests. Their modern structures allow to set up many general and concurrent sessions.

(see the bird's eye view scenic flight over University, on the Conference website)



Conference Programme

Thursday November 20, 2025

(Venue: The Department of Astronautical, Electrical and Energy Engineering of the University of Rome "La Sapienza" (address: Via Eudossiana, 18)

- 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**

Friday, November 21, 2025

- 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
- 18.00-20.00 **Gala Cocktail**

Saturday- November 22, 2025

- 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**

Conference Closing

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



Welcome to Rome, one of the most beautiful and historical cities around the world



Rome is a large, busy metropolis that lives in the here and now, yet there's no other place on earth where you'll encounter such powerful evocations of a long and spectacular past, from the Colosseum to St. Peter's. Indeed, more than Florence, more than Venice, Rome is Italy's treasure storehouse. Here, the ancient Romans originated what we now call Western Civilization; centuries later Michelangelo painted the Sistine Ceiling, Bernini sculpted baroque nymphs and naiads that still dance in marble fountains, and Fellini filmed "La Dolce Vita.



The whole historic centre was declared a World Heritage Site by the UNESCO

Today, ancient Rome rubs shoulders with the medieval and the modern runs into the Renaissance. Be prepared to step into the world's biggest open air museum. Rome will seduce you and it will hardly leave you indifferent. Modern and old, past and present go side by side, all the time.

The city is full of culture, religion and history. Rome has been the seat of the Papacy since the 1st century AD and in the 8th century it became the capital of the Papal States. Rome has been for centuries the heart of the Roman Catholic religion.

The most important symbols of its Architecture are: the **Colosseum** (70–80 AD), the amphitheatre, the **Pantheon**, the **Catacombs**, the **Circus Maximus**, the **Mausoleum of Augustus**, **Castel Sant'Angelo**, the **Arch of Constantine**, the **Pyramid of Cestius**, and the **Bocca della Verità**, **Santa Maria Maggiore**, **Torre delle Milizie**, the **Torre dei Conti**, **St. Peter's Basilica**, the **Piazza del Campidoglio** by Michelangelo, the **Palazzo del Quirinale** (now seat of the President of the Italian Republic), the **Palazzo Venezia**, the **Palazzo Farnese**, **Piazza Navona**, **Piazza di Spagna**, **Campo de' Fiori**, **Piazza Venezia**, **Piazza Farnese**, **Piazza della Rotonda** and **Piazza della Minerva**, the **Fontana di Trevi** by Nicola Salvi, the **Palazzo Madama**, and many others.



Surrounded by many monuments, palaces, basilicas, piazzas, churches, aqueducts, fountains and old houses, Rome shows the different styles of Architecture used during years: Ancient Architecture, Medieval Architecture, Renaissance and Baroque architecture, Neoclassicism, Fascist architecture. Besides of its incredible architecture and Art, Rome is also considered one of the fashion capitals and a cosmopolitan city, it has stores of the most renowned brands such as Bulgari, Fendi, Chanel, Prada, Dolce & Gabbana, Armani and Versace.



How to reach Rome: <https://www.rome.net/how-to-get-to-rome>



By airplane

Rome-Fiumicino Airport (FCO)
The Rome-Ciampino Airport (CIA)



By train

Roma Termini railway station