

with the scientific contribution of

SDA Bocconi
SCHOOL OF MANAGEMENT



7th AIEE Energy Symposium

Current and Future Challenges to Energy Security

the energy crisis, the impact on the transition roadmap –
14-16 December, 2022

VIRTUAL CONFERENCE

www.aieeconference.eu

Dear Energy Colleague,

The **Italian Association of Energy Economists - AIEE**, affiliate of the **International Association for Energy Economics - IAEE**, is organizing the **7th AIEE Energy Symposium on Energy Security - 2022**, in cooperation with the **SDA Bocconi School of Management**, of Milan, programmed as usual for **mid December**.

Although we are on the cusp of winning our battle against the pandemic, there is still uncertainty regarding travelling around the world, due also to the international situation, which could make difficult for some participants to attend.

Therefore we decided that the AIEE Energy Symposium 2022 will be organized as a **virtual online conference** hoping that with our next edition we will all be able to meet again in a normal face to face event,

The **AIEE Energy Symposium on Energy Security** has become an important yearly appointment and an opportunity to discuss energy security, climate change, to explore new and existing trends, creative solutions of new technologies, the emergence of new market conditions and of new market operators.

An appointment we do not want to miss!

After the crisis of COVID-19, energy security will remain an important issue of the world energy policy and the key for a more resilient society. The pandemic has set in motion the largest drop in global energy

investment in history, with spending expected to plunge in every major sector this year – from electricity to renewables and energy efficiency. The overall share of global energy spending that goes to clean energy technologies – including renewables, efficiency, carbon capture, utilization and storage – has been stuck at around one-third in recent years. Power sector spending is on course to decrease by 10% in 2020, with worrying signals for the development of more secure and sustainable power systems. Energy efficiency, a central pillar of clean energy transitions, is suffering too. Estimated investment in efficiency and end-use applications is set to fall by an estimated 10–15%. The slowdown in spending on key clean energy technologies also risks undermining the much-needed transition to more sustainable energy systems.

The **AIEE Symposium** will be a forum to discuss all these problems, continuing the dialogue of the past editions analyzing the transformations of the concept of energy security in this new context.

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 **SDA Bocconi School of Management** (which was ranked 3rd in the Financial Times' European Business School Ranking and 8th in the world for business and management studies).

G.B Zorzoli, AIEE President

Conference objectives

This edition of our Symposium will address emerging security challenges and opportunities resulting from global efforts to lower CO₂ emissions by reducing consumption of high-carbon energy sources, it will focus on the global energy crisis and its impact on the transition roadmap. The link between energy policy and national security is well established, but the specter of climate change concentrated attention on the international dimension of the energy-security nexus. Current energy debates are animated by a variety of diverse interest groups, intergovernmental organizations, industry leaders, and security experts and although there is wide consensus among these groups regarding the need to transition to a lower-carbon society, the points of view regarding the path of this transition are not always the same. The actions to accelerate improvements in energy efficiency can reduce energy bills, dependence on imported fuels and speed up reductions in greenhouse gas emissions. Energy efficiency can also ease many of today's critical challenges, including the energy crisis and inflationary pressures.

Our event will be an opportunity to discuss energy security, it will bring together prominent academic voices as well as experienced practitioners and policymakers, offering an opportunity to "bridge the gap" between these sectors. Participants in the conference will identify critical issues and challenge competing perspectives.

Organization

GENERAL CONFERENCE CHAIR: G.B. ZORZOLI, President, AIEE, Italy

STEERING COMMITTEE CHAIR: CARLO DI PRIMO, Vice President, AIEE, Italy

SCIENTIFIC COMMITTEE CHAIR: MATTEO DI CASTELNUOVO, Director, Master in Sustainability and Energy Management (MaSEM) e SDA Associate Professor of Practice in Energy Economics, Italy

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

ORGANIZATION COMMITTEE CHAIR: CARLO ANDREA BOLLINO, Professor University of Perugia, Honorary President, AIEE, Italy

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

Registration fees

Participants	before October 20	after October 20
Speaker/Chair IAEE Member	€ 250	€ 290
Speaker/Chair Non-Member	€ 350	€ 380
Student speaker IAEE Member	€ 130	€ 150
Student speaker Non-Member	€ 180	€ 200
Attendee IAEE Member	€ 30	€ 30
Attendee Non-Member	€ 60	€ 60
Attendee Student	€ 25	€ 25



SDA Bocconi is one of the highest-ranked schools of management in the world and a trailblazer in European business education.

The challenges imposed globally by COVID-19 have turned the face-to-face events program into a multifaceted series of virtual meetings, assuring its ongoing presence throughout the crisis and providing its students with customized information and support.

The SDA Bocconi while duly respecting all the safety rules put in place by the authorities, has not stopped its program during the Covid-19 emergency. Moving online classes and semi-

nars as well as adapting teaching and exam methodologies. Always preserving the aim for excellence, the sense of cozy community.

Conference Programme

Our event will have the same structure because we want the **Virtual Conference** to feel as much like an in-person event as possible.

We offer a **comprehensive** program, with **Plenary sessions** and keynote presentations, and several **concurrent sessions**. These include traditional presentations, lightning talks, discussions, and interacting.

We solicit presentation through a **Call for papers**, just as in-person previous conferences.

We offer **reduced group registrations** for institutions who wanted to sign up 5 or more attendees.

Live chat questions and answers with the presenters during their sessions and real-time conversations among participants. The speakers can present their slides and attendees can ask questions about the topic.

Virtual conferences might lack the intimacy of a physical gathering, but they democratize access offering the attendees the possibility to connect with each other providing an interactive, collaborative networking, information-sharing and many the same benefits as on-site events with less cost and less risk.

(UTC +1 - Central European Time (CET) - ITALY)

December 14, 2022

15:30-17:00 **Opening Welcome Address**

December 15, 2022

09.00 -10.30 1st cycle of concurrent sessions - 4 virtual rooms
(virtual parallel sessions 1-4 of 1h.30' each)

10.30 -11.30 **Dual Plenary Sessions** (2 virtual rooms)

*EU towards 2030 and the energy security concerns
Regulation of energy markets
(2 virtual plenary sessions of 1h each)*

11.30 -13.00 2nd cycle of concurrent sessions - 4 virtual rooms
(virtual parallel sessions 5-8 of 1h.30' each)

13.00 -14.00 **Break**

14.00 -15.30 **Dual Plenary Sessions** (2 virtual rooms)

*Energy industry challenges to a low-carbon economy, the gas role in the transition
Sustainable mobility challenges for the transition targets
(2 virtual plenary sessions of 1h.30 each)*

15.30 -17.00 3rd cycle of concurrent session - 4 virtual rooms
(virtual parallel sessions 9-12 of 1h.30' each)

December 16, 2022

09.00 -10.30 4th cycle of concurrent sessions - 4 virtual rooms
(virtual parallel sessions 13-16 of 1h.30' each)

10.30 -11.30 **Dual Plenary Sessions** (2 virtual rooms)

*Grid security and new technologies
Energy Efficiency and the future strategies of the energy industry
(2 virtual plenary sessions of 1h each)*

11.30 -13.00 5th cycle of concurrent sessions - 4 virtual rooms
(virtual parallel sessions 17-20 of 1h.30' each)

13.00 -14.00 **Break**

14.00 -15.30 6th cycle of concurrent session - 4 virtual rooms
(virtual parallel sessions 21-24 of 1h.30' each)

15.30 -16.30 **Plenary Session**

Hydrogen, new developments

Conference Closing

The structure of the program might be subject to some changes, according to the number of abstracts received and technical peculiarities of the platform that will support the event

Call for Abstracts

Abstract submission deadline extended to October 18, 2022

Concurrent sessions will be organized from accepted abstracts. Authors may be encouraged by the Programme Committee to organize specific sessions. Submitted abstracts should be of one or two pages in length, comprising (1) overview, (2) methods, (3) results and (4) conclusions.

The result of the submissions sent within **September 10** will be notified by **September 25**.
The result of the submissions sent within **October 18**, will be notified by **November 1st**.

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.

The submission of the full paper is not obligatory unless the author is interested to propose it for publication.

Contact the Conference Secretariat: Phone: +39.06.3227367; e-mail: aiee@aieesymposium.eu
www.aieesymposium.eu

Concurrent sessions

The concurrent sessions will largely be identified from the clustering of relevant abstracts submitted by the participants. You can also organize and propose to the Scientific Committee "special sessions" on a particular topic. The special sessions must have at least 3 speakers.

Proposed topics:

- ◆ 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 supply and security
- ◆ Energy performance in buildings
- ◆ Emissions trading schemes, promoting energy efficiency
- ◆ Energy and emission modelling
- ◆ Carbon border adjustment measures
- ◆ Energy security for a more resilient society
- ◆ Energy vulnerability in developed countries
- ◆ Energy transition funds
- ◆ Sectorial approach to energy efficiency in industry
- ◆ Energy and industrial competitiveness
- ◆ Renewable energy sources and industries
- ◆ Regulation of energy network industries
- ◆ Regulation and taxation of energy markets
- ◆ Community and supply chain
- ◆ Energy security: impact of COVID19
- ◆ 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
- ◆ Security risks in the electricity sector
- ◆ The utility of the future
- ◆ Energy security and the role of new technologies in energy transition
- ◆ Electric mobility for a sustainable future
- ◆ Energy storage and electrification– effects on the market
- ◆ Strategic contribution of energy storage to energy security
- ◆ Economics oil and gas markets, developments in LNG markets
- ◆ The changing geopolitics of energy and global governance
- ◆ European perspectives of energy security in the global context
- ◆ Nuclear energy markets
- ◆ Disruptive business models in energy sector

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.

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Conference secretariat

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