

4<sup>th</sup> AIEE Energy Symposium

# Current and Future Challenges to Energy Security

in cooperation with



**10-12 December 2019 - Rome, Italy - LUMSA University**

**Abstract submission deadline: September 10, 2019**

[www.aieeconference2019rome.eu](http://www.aieeconference2019rome.eu)

Conference secretariat

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Dear Energy Colleague,

The AIEE - Italian Association of Energy Economists (Italian affiliate of the IAEE - The International Association for Energy Economics) is organizing this international conference in cooperation with the LUMSA University of Rome to bring together energy experts engaged in academic, business, government, international organizations for an exchange of ideas and experiences on the present and future landscape of energy security.

The three editions of the AIEE Symposium on Energy Security in Milan and Rome were an opportunity to explore new and existing energy trends, challenges and creative solutions for the energy security, the availability of new technologies, the emergence of new market conditions and of new market operators.

Following up on the success of the past editions we are delighted to announce this fourth AIEE Energy Symposium to provide a fresh look on the major forthcoming issues offering an excellent occasion to continue the dialogue and to share best practice and experience with delegates from all over the world.

The concept of energy security is undergoing a rapid transformation. In the past, geopolitics and the supply of oil and gas were the dominant factors determining energy security. Today, a broader and more complex spectrum of elements are interacting to both stabilize and threaten energy security.

The availability of energy sources, when we consider both fossil

fuels and renewables, is increasing. In particular, a major source of change is the strong growth in the production and integration of renewable and distributed energy, which offers opportunities to diversify the energy mix and thus improve energy security by reducing physical reliance and price exposure to only a few sources and countries. At the same time, this paradigm of a new energy system has strong implications both on petroleum-producing countries and companies, with knock-on effects on geo-economic balance of powers and energy markets and on the security and reliability of the transmission and distribution networks.

The new challenges of the digital revolution that on one hand offers opportunities to improve efficiency, to have lower costs but on the other hand raises a whole new set of challenges and creates vulnerabilities we have never seen before so that energy is being viewed as a key part of national security.

While in the past the supply side was the dominant factor in energy security, with the critical element being the possibility of sourcing the products to produce electricity and provide mobility, now the energy security balance is changing.

No better stage can be imagined for this debate than Rome "caput mundi", with its powerful evocations of a long and spectacular past, the crossroad of political, economic and cultural activity, one of the most beautiful cities in the world.

Organization Committee Chair  
Carlo Di Primio, AIEE President

General Conference Chair  
Carlo Andrea Bollino, AIEE Honorary President

## Conference objectives

Recent events have added elements of uncertainty in the already complex evolution of the energy situation in the world and in Europe in particular. Security of supply, geopolitical aspects and environmental problems are once more at the forefront.

The Conference aims at providing a forum for an analysis of the new developments and a new vision of the future framework for energy security and will try to define the energy priorities for the next years and the action to be taken.

This conference is an invitation with the goal of promoting research and information exchanges on energy security, providing a general look at the forces driving its transformation and at some of their effects. Many of them are different from anything we have seen in the past.

## Organization

CARLO DI PRIMIO (*ORGANIZATION COMMITTEE CHAIR*)  
President, AIEE, Italy

CARLO ANDREA BOLLINO (*GENERAL CONFERENCE CHAIR*)  
Honorary President, AIEE, Italy

NICOLETTA RANGONE, Professor, LUMSA University, Italy (*SCIENTIFIC COMMITTEE CHAIR*)  
AGIME GERBETI, Adjunct Professor, LUMSA University, Italy (*PROGRAMME COMMITTEE CHAIR*)

## Registration fees

Participants	before August 20		after August 20	
Speaker/Chair IAEE Member	€	400	€	450
Speaker/Chair Non-Member	€	490	€	550
Delegate IAEE Member	€	550	€	600
Delegate Non-Member	€	680	€	700
Student IAEE Member	€	220	€	270
Student Non-Member	€	280	€	320

## Conference Venue



### The University in the Center of Rome

Situated near Castel Sant'Angelo and St. Peter's Church, LUMSA is a public non-state Italian university, the second oldest university in Rome after Sapienza, founded in 1939. The university developed in the 1960s and 70s and in 1989 it grew into a multi-faculty institution, being one of the first Italian Universities to offer programs in Communication Science and Journalism. Law, politics, economics, and psychology were also added gradually to the portfolio. Particular focus was maintained on education and pedagogical study.

Particular attention was devoted to the Erasmus Project and LUMSA was recognized by the European Union as being one of the best universities in Italy for developing European programs.

With around 6.000 students, LUMSA is a high profile internationally recognized academic institution. Professionalism, growth and development are the University's fundamental principles, along with teaching, employment, research and the student experience.



### venue facilities



The academic scenario of the LUMSA University offers an ideal platform to promote the exchange of ideas and host high level events and conferences.

The meeting 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.

#### Tuesday - December 10, 2019

16:30-17:30 **Opening Welcome Address**  
17.30-19.00 **Welcome Cocktail**

#### Wednesday - December 11, 2019

08.30-17.00 **Registration**  
08.30-10.00 **Welcome coffee**

09.00-10.30 1<sup>st</sup> cycle of concurrent sessions  
10.35-11.35 **Dual Plenary Sessions**  
*EU towards 2030 and energy concerns*  
*Regulation of energy markets*

11.40-13.10 2<sup>nd</sup> cycle of concurrent sessions  
13.10-14.10 **Lunch buffet**  
14.15-15.45 **Dual Plenary Sessions**  
*Energy industry challenges to a low-carbon economy,*  
*the gas role in the transition*  
*Sustainable mobility challenges for the transition targets*

15.50-17.20 3<sup>rd</sup> cycle of concurrent sessions

#### Thursday - December 12, 2019

08.30-13.00 **Registration**  
08.30-10.00 **Welcome coffee**

09.00-10.30 4<sup>th</sup> cycle of concurrent sessions  
10.35-11.35 **Dual Plenary Sessions**  
*Grid security and new technologies*  
*Europe Roadmap and the future strategies*  
*of the energy industry*

11.40-13.10 5<sup>th</sup> cycle of concurrent sessions  
13.10-14.10 **Lunch buffet**  
14.15-15.45 6<sup>th</sup> cycle of concurrent sessions  
15.50 -17.20 7<sup>th</sup> cycle of concurrent sessions  
Conference Closing

## Students

Students are especially encouraged to participate and may attend the conference at the reduced student registration rate.

In addition students may submit a paper for consideration in the *Best Paper award Competition* (cash prize plus waiver of conference registration fee).

Students are also welcome to participate in the *Poster Session*.

## Call for Abstracts

### Abstract submission deadline September 10, 2019

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.

Authors will be notified by **September 20, 2019** of their admission status.

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.

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

## Concurrent sessions

Four of the 30 concurrent sessions will be devoted to the themes covered in the dual plenary sessions to present further papers on these subjects. The other themes will largely be identified from the clustering of relevant presentations submitted by the participants.

## Proposed topics:

Access to energy	Smart grids
Biogas and biomethane	Smart meters
Behavioural energy economics	Smart cities
Climate policy and emission trading	The future energy demand
Europe energy road map to 2050	The utility of the future
Energy supply and security	The Union energy security
Energy efficiency in buildings	Technology development (grid management)
Energy storage – effects on the market	The gas market: new perspectives?
Energy vulnerability in developed countries	The perspective of LNG
Extending the scope of European energy regulation	The impact of oil price fluctuation
Industrial energy and material efficiency	The future of transportation
Energy and Industrial Competitiveness	Technology development - grid management
Market instruments for energy efficiency North-South cooperation on renewable energy	Strategic contribution of energy storage to energy security
Promoting or imposing energy efficiency?	Sectorial approach to energy efficiency in industry
Regulation of energy markets	Reducing industrial energy use and CO2 emissions
Real-time tariffs	European perspectives of energy security in the global context

## 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

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