

MISSION OF LEVI CASES

To publish documentation and studies in the field of energy and environmental economics, and of the technologies that characterize the exploitation of renewable energy, processes and sustainable consumption of resources

To perform studies and research, for private companies or groups, public administrations, scientific institutions and other public or private organizations

To advise public administrations and private companies on energy issues

To support the organization of master and other courses, seminars and workshops for developing knowledge, updating and informing the public and private operators about questions related to energy

To promote interdisciplinary research activities and to support collaborations among different Departments of the University of Padova

To establish relations and organize common initiatives with analogous Energy Centres in the world, and with National and International NGO's

FOR MORE INFO

<http://levicases.unipd.it/en/>

MANAGEMENT

Director:
**PROF. ALBERTO
BERTUCCO**



In charge for
this event:
**PROF. MASSIMO
GUARNIERI**

CONTACTS

**Interdepartmental Centre of
Energy
Economics and Technology
Giorgio Levi Cases**

Università degli Studi di Padova
Via Marzolo 9
35131 PADOVA

phone (+39) 049 8275517
email: levicases@dii.unipd.it



UNIVERSITY OF PADUA, ITALY

**CENTRE OF ENERGY
ECONOMICS AND TECHNOLOGY
GIORGIO LEVI CASES**

EXPO2017 ASTANA

**STATIONARY AND MOBILE
STORAGE FOR BOOSTING
RENEWABLE ENERGY
SOURCES:**

**ACTIVITIES FROM VENETO
RESEARCH AND INDUSTRY**

**Thursday 24 August
14:00-16:30 and 16:30-19:00**

**Italian Pavillon
Second Floor**

EVENT'S SUMMARY AND MOTIVATION

To present research institutions and public and private companies of the Veneto Region committed to scientific and technological innovation in energy storage.

To involve stakeholders present at EXPO 2017 Astana and stimulate interactions and cooperation with Veneto companies and authorities.

Stationary and mobile energy storage systems will grow worldwide in the next future due to the evolution toward non-polluting carbon-free renewable energy sources. Energy storage is the most challenging hurdle to the full success of electric mobility. In the stationary field energy storage is expected to face not only the intermittency of renewable sources, but also to offer advanced services in the framework of the smart-grid concept, both at national and local (mini-grid, micro-grid) levels. These services range from power quality, with sag compensation, power smoothing, grid stabilization and frequency regulation, to energy management, with load levelling, load following, power balancing, peak shaving, and time shifting, load levelling, load following, power balancing, peak shaving, and time shifting (related to hourly pricing policies) up to investment deferral.

Each event will consist of four seminars (two delivered by university professors, two delivered by representatives of Veneto companies) followed by a question time with the audience to present the Venetian scientific and technological innovation in the area of energy storage.

PROGRAM

EVENT 1 - PROGRAM:

- 14:00-14:10 Introduction and greetings, Representatives of the Veneto Region and the Levi Cases Center.
- 14:10-14:30 **Evolution of Energy Storage Technologies**
Prof. Massimo Guarnieri, Centre Levi Cases.
- 14:30-14:50 **Electrochemical Energy Storage: a Battery of Choice**
Dott. Federico Bertasi, Centre Levi Cases.
- 14:50-15:10 **Experiences on Energy Storage by Veneto Companies**
Ing. Antonio Zingales, SAET SpA, Padua.
- 15:10-15:30 **A Multitechnology Energy-Storage Test Facility in Venice**
Ing. Angelo Bovo, Veritas SpA, Venice.
- 15:30-16:00 Discussion with the four speakers and one representative of Venetian spin-offs of the energy sector.

EVENT 2 - PROGRAM:

- 16:30-16:40 Introduction and greetings, Representatives of the Veneto Region and the Centre Levi Cases.
- 16:40-17:00 **Evolution of Energy Storage Technologies**
Prof. Massimo Guarnieri, Centre Levi Cases.
- 17:00-17:20 **Electrochemical Energy Storage: a Battery of Choice**
Dott. Federico Bertasi, Centre Levi Cases.
- 17:20-17:40 **Experiences on Energy Storage by Veneto Companies**
Ing. Antonio Zingales, SAET SpA, Padua.
- 17:40-18:00 **A Multitechnology Energy-Storage Test Facility in Venice**
Ing. Angelo Bovo, Veritas SpA, Venice.
- 18:00-18:30 Discussion with the four speakers and one representative of Venetian spin-offs of the energy sector.

CENTRE LEVI CASES

The Centre for Energy Economics and Technology "Giorgio Levi Cases" is an interdepartmental Centre of the University of Padua involved in scientific and technological research about energy sources and their transformation, distribution and final use.

Established in 1969 thanks to Engineer Giorgio Levi Cases' legacy and reorganized in 2014, the Centre joins and coordinates research activities in the energy field of eleven departments of the University of Padua. It is supported by private and public funds.

The objective of the Centre is promoting interdisciplinary collaboration between laboratories involved in various scientific and technological fields related to energy. It has also the purposes of organizing scientific events, establishing collaborations with other similar national and international research centers, interacting with institutions and companies, and offering training courses.

With 44 research groups including 300 faculty members, the Centre Levi Cases is heading to become a national and international leading institution on energy issues

