



# Summer School on Energy Giacomo Ciamician



The school on energy “Giacomo Ciamician”, founded in 2010 under the leadership of the University of Trieste, is a meeting place, where participants learn the fundamentals of the main energy technologies, and become aware of the complex technological, economical, and social issues that make energy such a formidable challenge, but also a source of many new opportunities.

We look for dynamic and smart people, willing to challenge themselves and to take on the challenges and opportunities that the world is now offering.

The main target of the school are students near the end of their educational path, in particular master (“specialistica”) and doctoral students, as well as young professionals, young entrepreneurs. However, diversity is a value for the School, and applicants at all career stages are encouraged to apply.

The School is a five-day residential course, and covers the following topics:

- **Energy as a global issue.** In a series of lectures, we introduce the current state of the energy system, its relationship with other global issues, and the key trends and indicators; we then identify the system's weak points from the technical, economical, and social perspective, and outline some of the possible solutions and future scenarios.
- **Overview on renewable energy sources.** This series of lectures provides an overview of some of the main renewable energy sources.
- **Energy efficiency.** A series of practical cases of energy efficiency and energy saving opportunities are presented, at different levels of the energy supply chain.
- **Focus on photovoltaics.** The case of photovoltaics is presented in detail as one of the key renewable energy technologies; the main current and upcoming technologies and the PV systems' engineering guidelines are described, the economics and the impact of this technology are critically presented.
- **Focus on electrical systems.** As the energy balance shifts towards an increase in the use of electricity, the recent and foreseen evolution of the electricity dispatching and distribution systems is described, and the corresponding enabling technologies are presented – including the key roles of ICT and storage systems.
- **Frontiers in energy research and special topics.** Internationally renowned scientists present their frontier research on energy topics and their vision; industry experts present their experience and outlook for the future of energy.

Lectures occupy half a day, while the other half is normally dedicated to networking, discussions, working on assignments, as well as relaxing and enjoying the beautiful surroundings.

The faculty of the Giacomo Ciamician School includes researchers, professionals, and experts with international experience in the field of energy, with diverse and interdisciplinary backgrounds. In many cases, the instructors work on common scientific projects, helping make the faculty quite a close-knit team.

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**Giacomo Ciamician**

## WHEN

June 22<sup>nd</sup> – 26<sup>th</sup>, 2015

## WHERE

Sexten Center for  
Astrophysic  
Sexten – Sesto (BZ), Italy

## INFO CENTER

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