

Call for Abstracts

ENERDAY 2025 - 19th International Conference on Energy Economics and Technology

Shaping Markets, Shaping Futures: Renewables and Flexibility in Modern Energy Systems

TU Dresden, Friday, 4th April 2025

The upcoming **ENERDAY25** will explore how future energy systems with a high share of renewable energy and flexibility options can work, addressing key challenges for market design, infrastructure development, and balancing supply and demand. Key questions include how market design needs to be adapted to accommodate renewable energy sources, what market structures best support flexible energy systems, and how demand-side responses can be incentivized to balance loads. Infrastructure development is essential for increased renewable generation, depending on simultaneous transmission- and distribution grid as well as renewables extension. Discussions will also explore how regulatory frameworks can accelerate the deployment of renewables and drive innovation in energy technologies, including smart grid solutions. Beyond electricity, district heating networks and alternative carriers like hydrogen are gaining importance. These systems provide essential flexibility through storage capabilities while facilitating sector coupling to achieve a fully decarbonized energy system.

ENERDAY25 aims to contribute to developing a resilient and sustainable energy system that meets future demands while supporting decarbonization efforts across sectors. The conference will address pressing issues in energy systems, markets and policies, focusing on flexibility and the deployment of renewable energy. We welcome contributions that explore empirical analysis, numerical modelling, best practice examples, policy and market design innovations, and technological advances. Special attention will be given to fostering the dialogue on the economic and technical aspects of energy systems. Contributions - whether theoretical or applied - may address the following topics:

I. Cross-sectoral focus

▪ **Energy markets and tenders**

e.g. designing energy markets: spot, future, balancing, redispatch, flexibility, green power, demand side, emission allowance markets, etc.

▪ **Pricing and demand response**

e.g. Modern end users tariffs, flexibility potentials of demand, smart meters, the role of the demand side in the energy market, etc.

▪ **Energy efficiency and sufficiency**

e.g. efficiency benchmarks, best practice examples, social norms supporting energy efficiency, energy management systems, etc.

▪ **Energy and society**

e.g. acceptance and behavioural aspects of energy efficiency measures and demand response, value of energy security, etc.

▪ **Energy technologies, innovation, and policies**

e.g. gradual and radical innovation in generation, storage, grid infrastructure, international cooperation and competition in technologies, success stories and failures, policy design, etc.

II. Sector-specific focus

▪ **Electricity sector**

e.g. investments in infrastructure, reserve, capacity markets and adequacy, congestion management, etc.

▪ **Heating sector**

e.g. promoting renewables in the heating sector, efficiency measures, combined heat and power, etc.

▪ **Transport sector**

e.g. hydrogen, electric mobility, traditional fossil fuels, new mobility concepts, etc.

▪ **Natural gas and hydrogen**

e.g. price developments and infrastructural analysis, inner-European markets, etc.

▪ **Sector coupling**

e.g. convergence of electricity, heat and gas markets (power-to-gas, power-to-heat), etc.

Submission of your contribution

Please submit an extended abstract (max. 6.000 characters, in English, including a short CV) by **26th February 2025** via the online submission form ([>here](#); **registration to the conftool is necessary**). You will receive a confirmation of acceptance by the **5th of March 2025** at the latest. Full presentations should be submitted by **31st of March 2025**. Accepted abstracts will be included in the Conference Book of Abstracts. The final version of the presentation you provide will be published on the website after the conference. Questions concerning the call for papers or the submission process can be directed to info.enerday@tu-dresden.de.

Venue and registration

The conference will be held as an in-person event at the TU Dresden Campus on **4th April 2025**. All participants are required to register via the online registration form ([>here](#); **no registration to the conftool is necessary**) by **21st March 2025**. Please contact registration.enerday@tu-dresden.de for questions regarding the registration.