Call for Abstracts

ENERDAY 2026 - 20th International Conference on Energy Economics and Technology

Celebrating 20 Years of ENERDAY: Two Decades of International Research, Innovation, and Progress on the Path to Climate Neutrality

TU Dresden, Friday, 27th March 2026

The upcoming jubilee edition of ENERDAY will explore both the achievements of more than 20 years of dedicated research in energy economics and the continuing need for action, with fewer than 20 years remaining to achieve the ambitious target of climate neutrality in 2045. Key questions include: How can the energy sector ensure a reliable and affordable supply while integrating a high share of renewable energy sources? How can electrification further expand the use of renewable energy sources and replace fossil molecules? What are competitive solutions for the heat transition and the decarbonization of buildings? How can sustainable mobility be promoted and the challenges in the transport sector addressed? What measures can drive the transformation of the industrial sector towards greater sustainability and innovation? Discussions will also examine how energy markets can accelerate a sustainable energy transition and drive innovations in energy technologies, including the use of artificial intelligence.

ENERDAY aims to advance the development of a resilient and sustainable energy system that meets future demands while supporting decarbonization across all sectors. The conference will address pressing issues in energy systems, markets and policies, reflecting on two decades of research and innovation and charting the path to climate neutrality. We invite contributions that explore empirical analysis, numerical modelling, best-practice examples, policy and market design innovations, and technological advances. Special emphasis will be placed on fostering dialogue between the economic and technical dimensions of energy systems. Contributions - whether theoretical or applied - may address, but are not limited to, the following topics:

I. Sector-specific focus and best practices

- Electricity sector: Infrastructure, flexibility and security of supply
  e.g. grid expansion, storage, and flexibility options, investments and markets design, capacity markets and adequacy, security of supply, etc.
- Heat transition and building sector
  e.g. promoting renewables in the heating sector, electrification, innovative district solutions, combined heat and power, etc.
- Sustainable mobility and transport sector
  e.g. hydrogen, electric mobility, alternative fuels, new mobility concepts and digitalisation, etc.
- Industry: Innovation and decarbonisation
  e.g. low-carbon production in steel, chemicals, cement, and other industries, energy carriers of industrial processes, carbon management and circular economy, etc.
- Natural gas, hydrogen and new fuels
  e.g. hydrogen economy and infrastructure, price developments, inner-European markets, power-to-X, alternative energy carriers, ammonia, methanol, synthetic fuels, etc.

II. Cross-sectoral innovations and system transformation

- Future energy markets and emissions trading
  e.g. innovative market designs (spot, balancing, flexibility, etc), advancing emission trading as a leading instrument, new models such as energy sharing, peer-to-peer trading, regional flexibility markets, etc.
- Digitalisation, AI and the energy system of the future
  e.g. Smart Grids and sector coupling, AI-Driven Forecasting, Control, and Optimisation, critical reflection on energy consumption, real-time data analytics, etc.
- Energy efficiency, sufficiency, and society
  e.g. efficiency benchmarks, best practice examples, energy management systems, social innovations, energy and society, etc.
- Energy technologies and innovation
  e.g. gradual and radical innovation in generation, storage, grid infrastructure, nuclear power (fission and fusion), international cooperation and competition in technologies, success stories and failures, policy design, etc.
- Policy and regulatory frameworks
  e.g. innovative policy and market design, regulation of energy access, strengthening of international cooperation, etc.

Venue, submission of your contribution, and registration

The conference will take place as an in-person event at the TU Dresden Campus. Please submit an extended abstract (max. 6,000 characters, in English, including a short CV) by 2 February 2026 via the online submission form (>here; *creating a ConfTool account is necessary*). You will receive a notification of acceptance by 16 February 2026 at the latest. Full presentations should be submitted by 23 March 2026. The final version of your presentation will be published on the website after the conference. Accepted abstracts will be included in the Conference Book of Abstracts. All participants are required to register online via the ConfTool registration form by 17 March 2026. For any questions, please contact info.enerday@tu-dresden.de.

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