

ISTANBUL NİŞANTAŞI UNIVERSITY
3rd INTERNATIONAL ENERGY CONGRESS
PLANNED HOST: UNIVERSITY OF JOHANNESBURG
December 18–19, 2025

The 3rd International Energy Congress will be organized by Istanbul Nişantaşı University, Faculty of Economics, Administrative and Social Sciences, in collaboration with the University of Johannesburg as the host institution, under the main theme “The Approaching Meta-Crisis in Global Energy Consumption: Artificial Intelligence and Data Farms.” The congress aims to discuss the new scale-related challenges emerging within the energy ecosystem due to digitalization through an interdisciplinary perspective, bringing together stakeholders from academia, the public sector, private industry, and civil society on a common ground of knowledge and solution sharing.

The scope covers the impacts of the transformation stretching from digital technologies to data farms on energy demand, the resource utilization and emission profiles of the “digital universe,” the contribution of robotic life to environmental pollution, and the effects of the Internet of Things on human life. Other core discussion topics include the implications of competition among GAFAM companies for global energy consumption, the opportunities and potential future threats of artificial intelligence as a life-facilitating technology, the geopolitics of digital infrastructures, and the energy consumption dynamics of the digital economy.

Issues such as the influence of software like GPT and Gemini on the tradition of scientific research, the pressures exerted by platform economies on bio-resources, and the techno-economic processes shaped by green energy and sustainable governance are considered worthy of scholarly exploration. The congress aims to develop concrete policy, regulatory, investment, and ethical solutions along the axes of competition based on green energy and AI-centered systems. In this regard, the presentation of both theoretical and empirical papers is encouraged.

Expected contributions from participants include cross-country and sectoral comparisons, methodological innovations, strategies pursued through data centers and network infrastructures, environmental and social impact assessments, and roadmaps toward sustainable competitiveness. The proceedings will be compiled in the congress book, and selected papers may, upon request and through a peer-review process, be published as a special issue in the Journal of Social Sciences of Istanbul Nişantaşı University.

IMPORTANT DATES

Final Abstract Submission: December 8, 2025

Publication of Abstract Book: March 10, 2026

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CONGRESS TOPICS

- Smart Enterprises and Energy Management
- Geopolitics of Digital Infrastructures
- The Impact of the Digital Economy on Energy Consumption
- The Effects of the Digital Universe on Energy Resources
- The Influence of Digital Technologies on Data Farms
- The Impact of Digitalization on Climate Change
- Natural Resources and Sustainability
- Innovation in the Energy Sector
- Regulations in the Energy Sector
- Consumer Behavior and Managerial Efficiency in Energy
- Energy Economics
- Energy Processing and Systems
- Energy Logistics
- Advances in Energy Technologies
- Energy and Smart Cities
- The Cost of Non-Storage in Energy
- Sectoral Developments in Energy
- Technological Transformation of Energy
- Energy Reserves and Distribution Challenges
- The Impact of GAFAM (Google, Amazon, Facebook, Apple, and Microsoft) Competition on Energy Consumption
- The Impact of GAFAM on Bio-Resources
- The Influence of Software such as GPT, Gemini, and Bing on the Tradition of Scientific Research
- The Future of Life-Facilitating Artificial Intelligence
- Climate Change and Energy Resources
- Transition from Carbon Economy to Hydrogen Energy
- The Impact of the Internet of Things on Human Life
- The Potential of Nuclear Energy
- The Role of Robotic Life in Global Pollution
- Strategic Energy Management
- The Relationship Between Water Resources and Energy
- Transportation Technologies and Energy Efficiency
- Competition Focused on Artificial Intelligence Systems
- Renewable Energy Resources
- Competition Through Green Energy
- The Impact of Green Energy on Sustainable Economies
- The Impact of Green Energy on Sustainable Governance

Note: Additional members from the host institution, the University of Johannesburg, will be included in the committees.