



**INTERNATIONAL FORUM FOR
CLEAN ENERGY TECHNOLOGIES**

XVI INTERNATIONAL FORUM FOR CLEAN ENERGY TECHNOLOGIES

PERSPECTIVES OF ECONOMIC DEVELOPMENT THROUGH SUPPORT TO THE ENERGY SECTOR



Novi Sad, September 26 - 27, 2023

**FIRST INFORMATION ABOUT THE EVENT
AND CALL FOR PARTICIPATION**

www.dept.uns.ac.rs

Dear ladies and gentlemen, dear friends,

After sixteen consecutive International Forums for clean energy technologies (with a one-year break in 2020 due to the pandemic, so the 2020 Forum was not held), our intensive long-term joint work has yielded the expected results. As we share this initial information, we sincerely hope that on September 26 and 27, we will be able to embody the spirit of this year's forum theme: "PERSPECTIVES OF ECONOMIC DEVELOPMENT THROUGH SUPPORT TO THE ENERGY SECTOR". Last year, this gathering was one of the first to take place amidst the peak of the global energy crisis. It presented new sustainable solutions and ideas, and we aim to continue in a similar vein.

After seven years of presenting the prestigious "TOP ENERGY" international award for outstandingly executed projects in the energy sector, we continue to acknowledge deserving individuals for their leadership in energy management and contributions to scientific and professional thought in Serbia and Southeast Europe. Despite the pandemic and the ongoing energy crisis, economic activities have not ceased, but rather intensified and evolved under challenging circumstances. This is the opportune moment to solidify our plans for further energy and economic development, exploring alternative models and diversifying the energy sector to its fullest extent.

Over an extended period, the Republic of Serbia has been making significant efforts to enhance its energy security and construct infrastructures that can meet the growing energy demands. Similar processes are underway in other Southeast European countries, reinforcing the fact that passivity or isolation in the energy sector is not viable for anyone in the region. The amendments and additions to new legal regulations reflect a noteworthy decentralization of energy production and a heightened involvement of private initiatives in the establishment of small-scale electricity generation facilities. Additionally, the state actively participates in improving energy efficiency in buildings. These are topics we aim to thoroughly address and contribute to the effective implementation of measures to enhance energy efficiency and promote the use of renewable energy sources. Notably, our initiation last year of a social and professional dialogue regarding nuclear energy in new technological solutions, as a substantial potential for permanently replacing fossil fuel sources, exemplified our commitment. These steps collectively pave the way towards a decarbonized society and ensure stability in energy supply.

The Program Committee of the XVI Forum, organized under the auspices of the Assembly of the Autonomous Province of Vojvodina and in collaboration with the Provincial Secretariat for Energy, Construction, and Transport, as well as the Chamber of Commerce of Vojvodina, has determined that this year's forum will primarily focus on identifying specific processes and projects within the economic realm of the energy sector. The aim is to improve these processes through the application of new technologies and solutions, all of which contribute to the achievement of common European interests in this domain. The EU Energy Roadmap 2050 clearly articulates these objectives, presenting an innovative approach to reaching the desired outcomes. By explicitly quantifying these goals from the present to the future, the intention is to address the comprehensive changes required in the economic and social systems that will lead us to their realization. Such an approach necessitates dynamic and flexible energy policies from all those aspiring to be successful nations in the future. Additionally, well-regulated mechanisms for monitoring policy implementation are crucial for achieving success. These elements serve as prerequisites for a dynamic shift in current policies and the creation of a new quality that entails continuous adaptations and adjustments to the evolving crisis environment.



It is our shared vision that the two-day proceedings of this year's Forum should not only propose additional economic contributions to the development of the energy sector but also promote the utilization of new technological solutions and advancements in scientific and professional endeavors. By doing so, we aim to stimulate a more creative and practical utilization of the available clean energy potential in these areas. This approach will foster long-term energy cooperation and development among countries in the region, steering our collective future towards the ambitious targets outlined in the EU energy roadmap for 2050.

The first day of the Forum will feature a plenary session, during which the highest officials of the host country and distinguished guests from abroad will deliver speeches. This session will be dedicated to discussing and updating the necessary activities to accelerate the implementation of the adopted national energy strategy. It will also address the required adjustments in response to the new challenging situation that lies ahead.

Furthermore, during the official opening of the Forum, the "TOP ENERGY 2023" awards will be presented to recognize the most successfully realized energy projects in Serbia and the countries of Southeast Europe, as well as deserving individuals from the past year. In all working sessions, after the presentations, panel discussions will be opened, which should ultimately provide clear messages regarding the potential for more dynamic and sustainable development of the energy sector in Serbia and the region by 2050.

The second day of the Forum, co-sponsored by the Chamber of Commerce of Vojvodina, will have a particular focus on reviewing accomplished business projects both from within the country and abroad. This will be carried out through the thematic session titled "REALIZED PROJECTS IN THE FIELD OF ENERGY, ENERGY EFFICIENCY, RENEWABLE ENERGY AND ENERGY MANAGEMENT".

Additionally, we will publish a special edition of EKolist, which will include general information as well as selected works by invitation. All papers, including these, will be available in electronic form as an addendum and permanently posted on the website of the Department of Energy and Process Engineering, Faculty of Technical Sciences, Novi Sad.

We cordially invite you to participate in this year's XVI Forum, "PERSPECTIVES OF ECONOMIC DEVELOPMENT THROUGH SUPPORT TO THE ENERGY SECTOR", and contribute to shaping the vision of the national energy future, as well as the implementation of business projects and the enhancement of mutual relations and energy security for the Republic of Serbia and the countries of Southeast Europe.

Respectfully Yours,

Tihomir Simić, D.Sc.
Chairman of the Forum

Ivo Vajgl
Co-Chairman of the Forum

June, 2023



FORUM IS SPONSORED BY



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FORUM MEDIA PARTNERS



PRELIMINARY PROGRAM

First day (Tuesday, September 26, 2023)

Central Hall, Assembly of the Autonomous Province of Vojvodina,
Entrance – Banovinski prolaz, 21000 Novi Sad

PLENARY SESSIJON	
PERSPECTIVES OF ECONOMIC DEVELOPMENT THROUGH SUPPORT TO THE ENERGY SECTOR	
08:30 – 09:30	Registration of participants
09:30 – 10:30	Addresses of high officials of the Government of the Republic of Serbia and republican institutions, high officials of AP Vojvodina, presidents of the Chamber of Commerce of Serbia and Chamber of Commerce of Vojvodina, ministers of the countries of the Southeast European region, ambassadors and heads of international missions accredited to the Republic of Serbia
Awarding of the “TOP ENERGY 2023” award and ceremonial opening of the Forum	
FIRST WORKING SESSION	
CURRENT STRATEGIES AND CHALLENGES OF THE ENERGY SECTOR	
11:00 – 13:00	Representatives of EU Institutions, the Ministry of Mining and Energy of the Republic of Serbia, the Ministry of Economy of the Republic of Serbia, the Energy Agency of the Republic of Serbia, the Provincial Government of Vojvodina, and EU member states Topics: <ul style="list-style-type: none"> • Energy strategies of European countries and the EU • Energy strategy of the Republic of Serbia • Economic potentials of the Republic of Serbia in the development of the energy sector in the Western Balkans • Vision and perspectives of sustainable energy development in the Republic of Serbia • Strategies and challenges at the provincial level Panel discussion
SECOND WORKING SESSION	
CHALLENGES OF ENERGY SUBSTITUTION AND DIVERSIFICATION FOR A SMART FUTURE	
13:00 – 15:00	Representatives of institutions, business entities and the energy sector Topics: <ul style="list-style-type: none"> • Development strategy of the economic sector of the Republic of Serbia • EU energy road map until 2050. What is changing? • Vision of the concept of sustainable energy development and application of clean energy technologies in the territory of the Republic of Serbia and the Western Balkans • Digital and modern technologies in the economy and energy sector • Improvement in the field of renewable energy sources Panel discussion
15:00 – 16:00	Working lunch and B2B meetings



Second day (Wednesday, September 27, 2023)
Great Hall, Chamber of Commerce of Vojvodina
Hajduk Veljkova 11, 21000 Novi Sad

THIRD WORKING SESSION REALIZED PROJECTS IN THE FIELD OF ENERGY, ENERGY EFFICIENCY, RENEWABLE ENERGY SOURCES	
9:00 – 11:30	<p>ADDRESS OF THE PRESIDENT OF THE CHAMBER OF COMMERCE OF VOJVODINA, OFFICIALS, AND FORUM CHAIRPERSON</p> <p>SCIENTIFIC AND PROFESSIONAL PAPERS IN THE FIELD OF CLEAN ENERGY TECHNOLOGIES ON THE FOLLOWING TOPICS:</p> <p>A. Commercial clean energy technologies and the potential of nuclear energy utilization: Solar thermal energy - Photovoltaic solar technologies - Biomass energy - Wind energy - Waste energy - Other renewable energy sources - Hybrid renewable energy systems - Innovative applications of nuclear technology.</p> <p>B. Energy efficiency and energy conversions: Measures for increasing energy efficiency - Energy efficiency in buildings - Energy efficiency in industry and the public sector - Energy efficiency in transportation - Energy efficiency regulations and standards.</p> <p>C. Refrigeration technology and new technologies: Natural refrigerants - Specific applications and technical solutions for natural refrigerants - Regulations and standards in the field - Energy efficiency and new technologies in refrigeration technology.</p> <p>D. New materials in energy and energy storage: Nanostructures in energy - Materials for fuel cells - Materials in renewable energy technologies - Materials for high-temperature processes - Hydrogen storage - Electrochemical energy storage: batteries and supercapacitors - Materials for solar cells.</p> <p>E. Modeling and simulation of energy processes: Energy optimization - Energy forecasting and planning - Energy simulation models - Uncertainty and risk analysis.</p> <p>F. Energy management, policy, and economy: Analysis of energy supply and consumption - Energy security issues - Lifecycle of energy projects - Legal framework and energy policy - Dynamics of the energy market - Human resource development and awareness raising.</p> <p>G. Energy and environmental protection: Impact of energy projects on the environment - Assessment of emissions impact from energy projects on the environment - Energy sustainability analysis - Carbon trading - Carbon dioxide capture and storage - Waste disposal and closure of energy facilities.</p> <p>H. Development of energy technologies: Smart grids - Fuel cells and hydrogen energy - Micro and nanotechnologies - Heat pumps and heat pipes - Electric vehicles - Microgrids - Combined cycles and cogeneration plants - Clean coal technologies - Artificial photosynthesis - Other developing energy technologies.</p>

FOURTH WORKING SESSION DESCRIPTION OF ECONOMIC ACTIVITIES IN THE ENERGY SECTOR (Chamber of Commerce of Vojvodina)	
11:45 – 13:00	Reference results in the energy sector of the Republic of Serbia, as well as AP Vojvodina

FINAL SESSION CONCLUSIONS AND CEREMONY CLOSING OF THE XVI INTERNATIONAL FORUM ON CLEAN ENERGY TECHNOLOGIES Chairman of the Forum: Tihomir Simić, Novi Sad, Serbia	
13:00 – 13:30	Proposed conclusions of the XVI Forum and ceremonial closing of the meeting
13:30 – 14:30	Cocktail and B2B meetings



IMPORTANT DATES AND DEADLINES

APPLICATION OF WORK

In addition to the title of the work, the application should also contain an extended abstract of the work (up to 4 pages) and information about the author or authors (name and surname, title, name and address of the institution, telephone and e-mail). The job application must be sent by August 25, 2023. Detailed instructions for preparing an extended abstract will be published on the Forum's website.

ACCEPTANCE OF WORK

Authors will be notified of the acceptance of the paper by September 1, 2023.

PRESENTATION OF WORK

Presentations of works in PowerPoint and video form should be submitted to the organizer by September 20, 2023.

FORUM LANGUAGES

The official languages are Serbian and English. All oral presentations will be simultaneously translated into both languages.

The collection of abstracts of all papers will be available in electronic form on the website www.dept.uns.ac.rs (subsite XVI Forum)

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For all further information regarding the abstract and the presentation, please contact the same address by e-mail or telephone.

