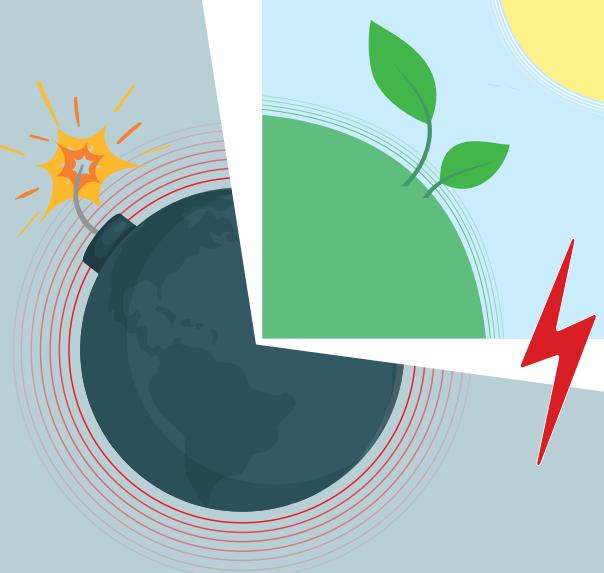


ENERGY ENERGETIKA 2023

**ENERGETSKA NEZAVISNOST REGIONA U SVETLU
GLOBALNIH POREMEĆAJA – Nova realnost**

ENERGY INDEPENDENCE IN THE REGION IN THE LIGHT
OF GLOBAL DISTURBANCES - A new reality



PROGRAM SAVETOVANJA CONFERENCE PROGRAM

12 - 15 / 09 / 2023
Zlatibor, Hotel Mona

POKROVITELJI - ENDORSEMENT



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ZAŠTO PRISUSTVOVATI SAVETOVANJU

PREKO 300 UČESNIKA IZ OBLASTI ENERGETIKE

ČETIRI PANELA NA TEMU KLJUČNIH AKTUELNOSTI U ENERGETICI

PREKO 60 KONFERENCIJSKIH SAOPŠTENJA

Poštovani energetičari,

Serija uspešno završenih međunarodnih Savetovanja u prethodnim godinama još nas više obavezuje da Vas već sada pozovemo da uzmete učešće na tradicionalnom međunarodnom Savetovanju koje se organizuje od **12. do 15. septembra 2023. godine na Zlatiboru, u hotelu Mona**. Visoki ugled koji savetovanja *ENERGETIKA* uživaju u domaćoj i međunarodnoj stručnoj javnosti traže da i ove godine postavimo aktuelnu i atraktivnu temu predstojećeg XXXVIII međunarodnog savetovanja, i zato naziv:

ENERGETIKA 2023 – ENERGETSKA NEZAVISNOST REGIONA U SVETLU GLOBALNIH POREMEĆAJA – Nova realnost

Naša Savetovanja su definitivno dostigla takav nivo da predstavljaju avanguardu energetskog sektora jer sučeljavanje nauke i struke sa energetskim kompanijama i industrijom povezanim sa energetikom, omogućava duboku analizu i unapređenje primenjenih i budućih tehnologija, postojećeg regulatornog okvira i ekonomsko – finansijskog ambijenta.

Strateški ciljevi energetske tranzicije, koji se u osnovi svode na dekarbonizaciju sektora uz široko korišćenje obnovljivih izvora energije, delom su potisnuti u drugi plan zbog zaoštrenog pitanja sigurnosti i bezbednosti isporuke energije i energenata. Dugoročni ciljevi energetske tranzicije ostaju konstante i zato struka mora da analizira sve aspekte kako bi se pronašla optimalna trajektorija kretanja ka dekarbonizovanim sektorima: energetike, saobraćaja, grejanja / hlađenja, industrije,... Potrebno je odgovoriti u kojoj meri sektor domaćinstva treba da nosi teret energetske tranzicije. Struka treba da odgovori i na pitanje da li je i nuklearna energetika „zelena energetika“, što sve više zagovara interesna grupa država sa nuklearnim elektranama. Otvoreno pitanje je svakako i da li energetičari umeju da planiraju i zatim da uspešno upravljaju energetskim sistemima u kojima je 100% obnovljivih izvora... Kakva će uloga skladišta energije biti u svemu tome, da li će, pored reverzibilnih hidroelektrana, baterijska skladišta biti ključna i nezaobilazna i kakvi su trendovi razvoja u toj oblasti? Može li se to uraditi bez primene vodoničnih tehnologija i ako ne može koji deo finalne potrošnje će pokriti vodonik. Da li trećinu, ili manje, ili čak više od trećine. Pred nama je radikalna transformacija energetike koja ne može da uspe bez primene holističkog koncepta, odnosno bez integralne energetike u najširem smislu reči. Puna digitalizacija sektora je nasušna potreba da bi se izgradila pametna energetska infrastruktura u kojoj je decentralizacija proizvodnje jedan od važnih principa, jer institucije kupac – proizvođač i energetska zadruga, odnosno mikromreža, omogućavaju da lokalno proizvedeni zeleni kWh električne energije ne opterećuju prenosne mreže. Već se jasno ocrtava da tek komplementarnost centralizovane i decentralizovane proizvodnje može da odgovori sve izvesnjem rastu potrošnje električne energije zbog elektrifikacije sektora transporta, grejanja, industrije,... S druge strane, rebus je nerešiv bez proaktivne uloge potrošnje koja se mora prilagođavati varijabilnoj proizvodnji iz obnovljivih izvora i zato je tako važno razvijati oblast upravljanja potrošnjom, odnosno odziva potrošnje.

Globalni izazovi u području klime i zaštite životne sredine podrazumevaju da se sagledava i šira slika i složene međuzavisnosti na našoj planeti, kontinentu, uniji, energetskoj zajednici, regionu, pa čak i stambenoj zajednici. Održiva strategija rasta ne treba da je vezana s eksploatacijom istrošivih resursa. Posebno je to važno za našu zemlju i za region. Održivost energetskog sektora ostaje trajni cilj zajedno sa poznatim konceptima sigurnosti isporuke i razvoja konkurentnosti u energetskom sektoru. Zbog toga će u toku ovog, i svih budućih međunarodnih savetovanja, Savez energetičara insistirati na integralističkom pristupu energetici i nastojati da takav koncept postane osnova i srpskog i regionalnog energetskog sektora.

WHY ATTEND CONFERENCE

OVER 300 PARTICIPANTS FROM THE ENERGY FIELD
FOUR PANELS ON THE TOPIC OF KEY NEWS IN ENERGY
OVER 60 CONFERENCE ANNOUNCEMENTS

Dear Energy Specialists,

The series of successfully completed international conferences in previous years certainly obliges us to invite you to take part in the traditional international conference which is being organized from **September 12-15, 2023, Hotel Mona, Zlatibor**. The high reputation that ENERGY conferences enjoy in the domestic and international professional circles requires both the right topic and attractiveness of the upcoming XXXVIII international conference, and therefore the name:

ENERGY 2023 - ENERGY INDEPENDENCE IN THE REGION IN THE LIGHT OF GLOBAL DISTURBANCES - A new reality

Our Conferences have become the leading regional platform in the energy sector, where science and profession meet energy companies and the energy-related industry to analyze and improve the existing technical and technological solutions, regulatory framework and economic-financial environment and thus pave the way for energy development.

The strategic goals of the energy transition, which could be basically reduced to the decarbonization of the sector with the widespread use of renewable energy sources, are partly blurred by the current energy crisis. Future trends will tell whether the crisis is accelerating or slowing down the transition. The profession must analyze all aspects to find the optimal trajectory towards the decarbonized sectors of energy, transport, heating/cooling, industry, ... It is also necessary to answer to what extent the public, private sectors and citizens should take the burden of the energy transition. The energy specialists should also answer the question of whether nuclear energy is "green energy", which is increasingly advocating by an interest group of states with nuclear power plants. The open question is certainly whether energy companies know how to plan and then successfully manage energy systems with 100% renewable sources ... What will be the role of energy storage in future energy systems, will, in addition to pumped storage hydro power plants, utility scale battery energy storage systems be crucial and inevitable, and what are the future development trends? Can this be done without the use of hydrogen technologies, and if not, which part of the final consumption will be covered by hydrogen. Is it a third, or less, or even more than a third? We are facing a radical transformation of energy sector that cannot succeed without the application of a holistic concept, that is, without integral energy approach in the broadest sense of the word. Full digitalization of the sector is an urgent need to build a smart energy infrastructure in which decentralization of production is one of the important principles because prosumer institutions and the energy cooperative, i.e., micro-grid, enable locally produced green kWh not to put additional complexity for transmission system operator. It is already clear that only the complementarity of centralized and decentralized production can respond to the growing needs of electricity consumption due to electrification of the transport, heating, industry, ... On the other hand, the puzzle is unsolvable without a proactive role of consumer side, and because of that load management and demand response getting more, and more importance.

The problems of balancing the energy system represent the main challenges in the process of decarbonization of the energy system. Successfully solving these challenges requires the development of energy storage technologies, which, in addition to traditional pumped storage hydropower plants, must also include new technologies, such as battery plants, green hydrogen technologies and heat storage. In addition to technological progress, the reorganization and regionalization of the electricity market is also necessary, primarily regarding the provision of power reserve services for balancing purposes. The development of the transmission system and the strengthening of interconnections is a prerequisite for the development of an efficient market and represents one of the main tasks in the development of regional security of the electric power systems.

Verujemo da će u naučnim i stručnim radovima i prilozima koji će biti podneti Programsko-organizacionom odboru Savetovanja dominirati sledeće **teme**:

- strateško planiranje u uslovima energetske tranzicije;
- pravična energetska tranzicija
- analiza aktuelne krize u energetskom sektoru;
- nove mogućnosti finansiranja energetske tranzicije sa specifičnostima regulative u energetici;
- savremeni elektroenergetski sistemi i pametne (smart) tehnologije;
- savremene tehnologije u korišćenju uglja, nafte i prirodnog gasa i u proizvodnji toplotne i električne energije;
- analiza energetskih sistema (savremene analitičke metode i alati za modeliranje energetskih sistema, energetske ankete, sistemske analize, rezultati);
- povezanost zaštite životne sredine, energetske efikasnosti i optimalnog energetskog razvoja;
- ekološki, ekonomski i socijalni efekti korišćenja obnovljivih izvora energije;
- održivi razvoj energetike sa aspekta smanjenja uticaja na klimatske promene;
- softverski alati u službi povećanja brzine i kvaliteta projektovanja, gradnje i eksploracije, kao i energetske efikasnosti energetskih procesnih opreme i postrojenja;
- savremena naučna istraživanja, tehničko-tehnološka unapređenja i inovacije u energetskom sektoru;
- savremeni sistemi upravljanja i automatske regulacije u energetici i procesnoj tehnici;
- studentski akademski projekti i
- promotivno-marketinške prezentacije i izložbe o energo-dostignućima u energoprivredi, industriji, poljoprivredi, komunalnim sistemima, saobraćaju, zgradarstvu, obnovljivim i novim izvorima energije.

Verujemo da će i ovo 38. međunarodno savetovanje ostvariti značajan i pozitivan uticaj na dalji razvoj nauke i energetskog sektora u celini, kako u Srbiji tako i u regionu. Ono će pružiti šansu da najbolji radovi koje bude odabran recenzentski žiri Programsko-organizacionog odbora Savetovanja, i koji budu napisani i na engleskom jeziku (nakon što prođu dodatne recenzije), budu objavljeni, ne samo u našem naučnom časopisu „[Energija, ekonomija, ekologija](#)“ (ISSN: 0354-8651), već i u istaknutom međunarodnom časopisu sa SCI liste „[International Journal of Electrical Power & Energy Systems](#)“ (ISSN: 0142-0615). Sve informacije biće dostupne putem sajta [savezenergeticara.online](#).

S poštovanjem,

Milun Babić

Predsednik skupštine Saveza energetičara

Nikola Rajaković

Predsednik Saveza energetičara

OBLASTI OD INTERESA

- (1) OBNOVLJIVI IZVORI ENERGIJE (SUNCE, VETAR, VODA, BIOMASA, BIOGAS, GEOTERMALNA ENERGIJA...);
- (2) KONVENCIONALNA ENERGETIKA I NJENO SUOČAVANJE SA ENERGETSKOM TRANZICIJOM;
- (3) POVEZIVANJE ELEKTROENERGETSKOG SEKTORA SA SEKTORIMA GREJANJA, TRANSPORTA I INDUSTRIJE;
- (4) ELEKTROENERGETSKE MREŽE I TRŽIŠTA U ENERGETICI;
- (5) ENERGETSKA EFIKASNOST (DOMAĆINSTVA, KOMUNALNI SEKTOR, INDUSTRIJA, ZGRADARSTVO...);
- (6) NOVE TEHNOLOGIJE U ENERGETICI;
- (7) MULTISEKTORSKI ZADACI U OBLASTI UNAPREĐENJA ŽIVOTNE SREDINE NA PUTU REPUBLIKE SRBIJE PREMA EU;
- (8) EKONOMSKA I REGULATORNO-RAZVOJNA PITANJA ENERGETSKOG SEKTORA.

Global challenges in areas of climate and environmental protection signify looking at the bigger picture and complex interdependencies on our planet, continent, union, energy community, region, and even housing community. A sustainable growth strategy should not be linked to the exploitation of expendable resources. This is especially important for our country and the region. The sustainability of the energy sector remains a permanent goal together with the well-known concepts of security of supply and the development of competitiveness in the energy sector. That is why, during this and all future international conferences, the Association of Energy Specialists will insist on an integral approach to energy and strive to make such concept the basis of both the Serbian and regional energy sector.

We believe that the following **topics** will dominate in the scientific and professional papers and contributions that will be submitted to the Program-Organizing Committee of the Conference:

- *strategic planning within energy transition process;*
- *just transition*
- *analysis of the current crisis in the energy sector;*
- *new possibilities for financing the energy transition with the specifics of energy regulations;*
- *modern power systems and smart technologies;*
- *modern technologies in the usage of coal, oil and gas and in the production of heat and electricity;*
- *modern technologies for energy storage and their integration in energy systems;*
- *analysis of energy systems (modern analytical methods and tools for modelling energy systems, energy surveys, systems analysis, results);*
- *connection between environmental protection, energy efficiency and optimal energy development;*
- *environmental, economic, and social effects of using renewable energy sources*
- *sustainable energy development from the perspective of reducing the impact on climate change;*
- *software tools aimed at increasing the speed and quality of design, construction and exploitation, as well as the energy efficiency of energy and industrial equipment and plants;*
- *modern scientific research, technical-technological improvements and innovations in the energy sector;*
- *modern control systems and automatic regulation in energy and process technology;*
- *student academic projects and*
- *promotional-marketing presentations and exhibitions about energy achievements in the energy sector, industry, agriculture, public / systems, traffic, construction, renewable and new energy sources.*

We believe that this 38th international gathering will have a significant and positive impact on the further development of the energy sector, both in Serbia and in the region. It will provide a chance for the best papers selected by the review jury of the Program and Organizational Committee of the Conference, and which will also be written in English (after passing additional reviews), to be published, not only in our scientific journal „[Energy, Economy, Ecology](#)“ (ISSN: 0354-8651), but also in the prominent international journal from the SCI list „[International Journal of Electrical Power& Energy Systems](#)“ (ISSN: 0142-0615). All information will be available through the [savezenergeticara.online](#).

Yours sincerely,



Milun Babić

President of the Assembly of the Association of
Energy Specialists



Nikola Rajaković

President of the Association of Energy Specialists

AREAS OF INTEREST

- (1) RENEWABLE ENERGY SOURCES (SUN, WIND, WATER, BIOMASS, BIOGAS, GEOTHERMAL ENERGY, ...);
- (2) CONVENTIONAL ENERGY AND ITS CONNECTIONS WITH ENERGY TRANSITION.
- (3) CONNECTING THE ELECTRICITY SECTOR WITH THE HEATING, TRANSPORT, AND INDUSTRY SECTORS.
- (4) ELECTRICITY NETWORKS AND ENERGY MARKETS.
- (5) ENERGY EFFICIENCY (HOUSEHOLDS, PUBLIC SECTOR, INDUSTRY, BUILDINGS...);
- (6) ENERGY STORAGE TECHNOLOGIES.
- (7) MULTISECTORAL TASKS IN THE FIELD OF ENVIRONMENTAL IMPROVEMENTS ON THE ROAD OF THE REPUBLIC OF SERBIA TOWARDS THE EU;
- (8) ECONOMIC AND REGULATORY-DEVELOPMENT ISSUES OF THE ENERGY SECTOR.

ORGANIZACIONO – PROGRAMSKO – NAUČNI ODBOR

Kopredsednici organizaciono-programske-naučne odbora:

Prof. dr Milun Babić, Predsednik Skupštine Saveza energetičara
Prof. dr Nikola Rajaković, Predsednik Saveza energetičara

Sekretarijat organizaciono-programske-naučne odbora:

Dr Ilija Bijelić, naučni saradnik, član Upravnog odbora Saveza energetičara
Prof. dr Dušan Gordić, Glavni i odgovorni urednik časopisa "Energija"
Sandra Alagić, Generalni sekretar Saveza energetičara
Marko Popović, Direktor BBN Congress Management doo

Članovi:

Prof. dr Neven Duić, Fakultet strojarstva i brodogradnje, Sveučilište u Zagrebu, Hrvatska
Prof. dr Peter Virtič, Faculty of Energy Technology, University of Maribor, Slovenija
Prof. dr Mirza Kušljugić, Fakultet elektrotehnike, Univerzitet Tuzla, Bosna i Hercegovina
Prof. dr Adriana Sida Manea, Politehnica-Universitety of Temisoara, Rumunija
Prof. dr Vladimir Terzija, Center for Energy Science and Technology, Skolkovo Institute of Science and Technology, Rusija
Dr Dejan Ostojić, Član Nadzornog odbora, JP Elektroprivreda Srbije, Srbija
Prof. dr Radoje Vujadinović, Mašinski fakultet, Univerzitet Crne Gore
Prof. dr Željko Đurišić, Elektrotehnički fakultet, Univerzitet u Beogradu, Srbija
Prof. dr Jovan Mikulović, Elektrotehnički fakultet, Univerzitet u Beogradu, Srbija
Prof. dr Željko Despotović, Institut "Mihajlo Pupin", Elektrotehnički fakultet, Univerzitet u Beogradu, Srbija
Prof. dr Petar Đukić, Tehnološko-metalurški fakultet, U Univerzitet u Beogradu, Srbija
Prof. dr Kledi Xhaxhiu, Faculty of Natural Sciences, University of Tirana, Albanija
Dr Iñigo Capellán-Pérez, Research Group on Energy, Economy and System Dynamics - University of Valladolid, Španija
Dr Nataša Markovska, Macedonian Academy of Sciences and Arts, Skopje (MANU), R. Severna Makedonija
Dr Čedomir Zeljković, Elektrotehnički fakultet, Univerzitet u Banja Luci, Bosna i Hercegovina
Angel Nikolaev, Black Sea Energy Research Center (BSERC), Bugarska

ORGANIZATIONAL - PROGRAM - SCIENTIFIC COMMITTEE

Co-presidents of the organizational-program-scientific committee:

Prof. Dr. Milun Babić, President of the Assembly of the Association of Energy Engineers
Prof. Dr. Nikola Rajaković, President of the Energy Association

Secretariat of the organizational-program-scientific committee:

Dr. Ilija Batas Bijelić, research associate, member of the Board of Directors of the Energy Association
Prof. Dr. Dušan Gordić, Editor-in-chief of the magazine "Energy"
Sandra Alagić, General Secretary of the Energy Association
Marko Popović, Director of BBN Congress Management doo

Members:

Prof. Dr. Neven Duić, Faculty of Mechanical Engineering and Shipbuilding, University of Zagreb, Croatia
Prof. Dr. Peter Virtič, Faculty of Energy Technology, University of Maribor, Slovenia
Prof. Dr. Mirza Kušljugić, Faculty of Electrical Engineering, University of Tuzla, Bosnia and Herzegovina
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Prof. Dr. Jovan Mikulović, Faculty of Electrical Engineering, University of Belgrade, Serbia
Prof. Dr. Željko Despotović, Faculty of Electrical Engineering, University of Belgrade, Serbia
Prof. Dr. Petar Đukić, Faculty of Technology and Metallurgy, University of Belgrade, Serbia
Prof. Dr. Kledi Xhaxhiu, Faculty of Natural Sciences, University of Tirana, Albania
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Dr. Čedomir Zeljković, Faculty of Electrical Engineering, University of Banja Luka, Bosnia and Herzegovina
Angel Nikolaev, Black Sea Energy Research Center (BSERC), Bulgaria

Utorak, 12. septembar 2023 / Tuesday, September 12, 2023

15:00 REGISTRACIJA UČESNIKA / REGISTRATION

18:00 Koktel dobrodošlice / Welcome cocktail

Sreda, 13. septembar 2023 / Wednesday, September 13, 2023

09:00 REGISTRACIJA UČESNIKA / REGISTRATION

09:30 – 10:15 Svečano otvaranje Savetovanja / Opening ceremony

Direktori elektroprivrednih preduzeća / Directors of power distribution companies - EPS, ERS, EPCG, ESM

Predsedavajući / Chairman: **Nikola Rajaković**

10:15 – 10:55 Prezentacija Platinastog sponzora / Platinum sponsor presentation – **Respect Energy**

10:55 – 11:15 Prezentacija Dijamanstkog sponzora / Diamond sponsor presentation – **Trina Solar**

11:15 – 12:45 Panel 1

Razvoj moderne energetske infrastrukture u kontekstu potreba za skladištenjem energije

Development of modern energy infrastructure in the context of energy storage needs

Sala / Hall 1

Predsedavajući / Chairman: **Nikola Rajaković**

Sažetak: Različite tehnologije skladištenja u svetu porasta udela obnovljivih izvora. Tehničko – tehnoške teme u kontekstu aktuelne energetske tranzicije i optimalni energetski miks obnovljivih i konvencionalnih izvora energije. Integrисано planiranje investicija u mrežu i proizvodnju sa pratećim temama: raspoloživost prirodnih resursa, primena veštacke inteligencije, edukacija,... STUDIJE SLUČAJA sa primerima regionala (simultani prevod).

Summary: Different storage technologies in light of the increase in the share of renewable sources. Technical - technological topics in the context of the current energy transition and the optimal energy mix of renewable and conventional energy sources. Integrated planning of investments in the network and production with accompanying topics: availability of natural resources, application of artificial intelligence, education... CASE STUDIES with regional examples (simultaneous translation).

12:45 – 13:05 Prezentacija Velikog sponzora / Grand sponsor presentation – **Elnos Group**

13:05 – 14:00 Pauza za ručak / Lunch break

14:00 – 15:30 Panel 2

Sprezanje ključnih energetskih sektora – uočeni problemi i nova rešenja za energetsku tranziciju

Connecting key energy sectors - perceived problems and new solutions for the energy transition

Sala / Hall 1

Predsedavajući / Chairman: **Ilija Batas Bjelić**

Sažetak: Sprezanje elektroenergetskog sa sektorom grejanja i hlađenja u kontekstu savremenih tehnologija toplovnih pumpi i skladišta toplove i globalnih energetskih poremećaja. U tom smislu ukazivanje na značaj dugoročnih ugovora o snabdevanju, ograničenosti fosilnih goriva, zastarelosti infrastrukture, rasta maloprodajnih cena energetskih siromaštva. STUDIJE SLUČAJA sa primerima regionala (simultani prevod).

Summary: Connecting the power sector with the heating and cooling sector in the context of modern technologies of heat pumps and heat storage and global energy disturbances. In this sense, pointing out the importance of long-term supply contracts, the limitation of fossil fuels, the obsolescence of infrastructure, the growth of retail prices of energy sources, building

materials and works, the certification of installers, the impact of inflation and the issue of energy poverty. CASE STUDIES with regional examples (simultaneous translation).

15:30 – 15:50 Prezentacija kompanije / Company presentation – **Siemens d.o.o. Beograd**

15:50 – 16:30 Koktel kompanije Siemens d.o.o. Beograd / Siemens Cocktail

16:30 – 18:00 Paralelne sesije / Parallel Sessions

Sesija / Session 1 - OBNOVLJIVI IZVORI ENERGIJE (SUNCE, VETAR, VODA, BIOMASA, BIOGAS, GEOTERMALNA ENERGIJA,...)

RENEWABLE ENERGY SOURCES (SUN, WIND, WATER, BIOMASS, BIOGAS, GEOTHERMAL ENERGY...)

Sala / Hall 1

Sesija / Session 2 - KONVENCIONALNA ENERGETIKA I NJENO SUOČAVANJE SA ENERGETSKOM TRANZICIJOM; MULTISEKTORSKI ZADACI U OBLASTI UNAPREĐENJA ŽIVOTNE SREDINE NA PUTU REPUBLIKE SRBIJE PREMA EU

CONVENTIONAL ENERGY AND ITS DEALING WITH THE ENERGY TRANSITION; MULTISECTORAL TASKS IN THE FIELD OF ENVIRONMENTAL IMPROVEMENT ON THE ROAD OF THE REPUBLIC OF SERBIA ACCORDING TO THE EU

Sala / Hall 2

21:00 – 00:30 Korporativno veče Platinastog sponzora - Respect Energy / Resepct Energy Corporate night

Četvrtak, 14. septembar 2023 / Thursday, September 14, 2023

08:30 REGISTRACIJA UČESNIKA / REGISTRATION

09:00 – 10:30 Paralelne sesije / Parallel Sessions

Sesija / Session 3 - POVEZIVANJE ELEKTROENERGETSKOG SEKTORA SA SEKTORIMA GREJANJA, TRANSPORTA I INDUSTRIJE

CONNECTING THE ELECTRIC POWER SECTOR WITH THE HEATING, TRANSPORT AND INDUSTRY SECTORS

Sala / Hall 1

Sesija / Session 4 - ELEKTROENERGETSKE MREŽE I TRŽIŠTA U ENERGETICI

ELECTRIC POWER NETWORKS AND MARKETS IN ENERGY

Sala / Hall 2

10:30 – 11:00 Kafe pauza / Coffee break

11:00 – 12:30 Panel 3

Uloga vodonika u energetskoj tranziciji

The role of hydrogen in the energy transition

Sala / Hall 1

Predsedavajući / Chairman: Milun Babić

Sažetak: Savremena praksa i razvojni trendovi u oblasti bezugljenične energetike, transporta i industrije u prvi plan su isturili potrebu za proizvodnjom i korišćenjem vodonika (visoka energetska vrednost, dostupnost u prirodi, čisto sagorevanje, izvodljiv transport gasovodima i pogodnost za „skladištenje“ električne energije. Srbija je potpisala niz sporazuma koji idu u korak sa vodoničnom tranzicijom koja je uzela veliki zamah u Evropi i svetu. Zato su teme vezane proizvodnju i korišćenje vodonika u Srbiji i ostalim zemljama regiona od posebnog značaja.

Summary: Contemporary practice and development trends in the field of carbon-free energy, transport and industry have brought to the fore the need for the production and use of hydrogen (high energy value, availability in nature, clean combustion, feasible transportation by gas pipelines and suitability for "storage" of electricity. Serbia has signed a number of agreements that keep pace with the hydrogen transition, which has gained great momentum in Europe and

the world. That is why topics related to the production and use of hydrogen in Serbia and other countries of the region are of particular importance.

12:30 – 14:00 *Pauza za ručak / Lunch break*

14:00 – 15:30 *Panel 4*

Energetika i industrija u regionu u svetu uvođenja cene emisije ugljen dioksida

Energy and industry in the region in light of the introduction of taxes on carbon dioxide emissions

Sala / Hall 1

Predsedavajući / Chairman: Dušan Gordić

Sažetak: Aktuelna pitanja uvođenja taksi na emisije ugljen dioksida sagledavaju se sa različitih aspekata: aspekta investitora, aspekta elektroprivreda kod kojih je ugalj dominantan primarni energet, aspekta industrije, aspekta regulative i svakako sa aspekta bankarskog sektora. U okviru panela analiziraće se i aspekt istorijskog prava na emisije i pravedna tranzicija.

Summary: The current issues of the introduction of taxes on carbon dioxide emissions are viewed from different aspects: the aspect of investors, the aspect of power companies where coal is the dominant primary energy source, the aspect of industry, the aspect of regulation and certainly from the aspect of the banking sector. The panel will also analyze the aspect of the historical right to emissions and a just transition.

15:30 – 16:00 *Kafe pauza / Coffee break*

16:00 – 17:30 *Paralelne sesije / Parallel Sessions*

Sesija / Session 5 - ENERGETSKA EFIKASNOST (DOMAĆINSTVA, KOMUNALNI SEKTOR, INDUSTRIJA, ZGRADARSTVO...)

ENERGY EFFICIENCY (HOUSEHOLDS, UTILITY SECTOR, INDUSTRY, CONSTRUCTION...)

Sala / Hall 1

Sesija / Session 6 - NOVE TEHNOLOGIJE U ENERGETICI

NEW TECHNOLOGIES IN ENERGY

Sala / Hall 2

20:30 – 00:30 *Svečana večera / Gala Dinner – Hotel Mona*

Petak, 15. septembar 2023 / Friday, September 15, 2023

09:00 – 10:30 *Paralelne sesije / Parallel Sessions*

Sesija / Session 7 - MULTISEKTORSKI ZADACI U OBLASTI UNAPREĐENJA ŽIVOTNE SREDINE NA PUTU REPUBLIKE SRBIJE PREMA EU

MULTISECTORAL TASKS IN THE FIELD OF ENVIRONMENTAL IMPROVEMENT ON THE ROAD OF THE REPUBLIC OF SERBIA TO THE EU

Sala / Hall 1

Sesija / Session 8 - EKONOMSKA I REGULATORNO-RAZVOJNA PITANJA ENERGETSKOG SEKTORA

ECONOMIC AND REGULATORY AND DEVELOPMENT ISSUES OF THE ENERGY SECTOR

Sala / Hall 2

10:30 – 10:45 *Prezentacija donatora / Donor presentation – CP Security*

10:45 – 11:15 *Kafe pauza / Coffee break*

11:15 – 12:30 *ZAVRŠNA SESIJA / CLOSING SESSION / Sala / Hall 1*

Predsedavajući / Chairman: Milun Babić

RASPORED RADOVA / PAPERS SCHEDULE

Sreda, 13. septembar 2023 / Wednesday, September 13, 2023

16:30 – 18:00

1. OBNOVLJIVI IZVORI ENERGIJE (SUNCE, VETAR, VODA, BIOMASA, BIOGAS, GEOTERMALNA ENERGIJA,...)
RENEWABLE ENERGY SOURCES (SUN, WIND, WATER, BIOMASS, BiOGAS, GEOTHERMAL ENERGY...)

Sala / Hall 1

Predsedavajući / Chairman: **Iva Batić**

- 1.1. #222 NAČIN PRIKLJUČENJA, PUŠTANJE U POGON I MONITORING ELEKTRANE NA BIOGAS 4X150 KW
CONNECTION METHOD, COMMISSIONING AND MONITORING OF THE 4X150 KW BiOGAS POWER PLANT

Dino Bošnjaković, Hidajet Salkić, Jasmin Saletović

- 1.2. #229 SIMULACIJA PROIZVODNJE ELEKTRIČNE ENERGIJE IZ FOTONAPONSKIH PANELA KORIŠĆENJEM SOLARNIH SISTEMA ZA PRAĆENJE

SIMULATION OF PHOTOVOLTAIC PANELS ELECTRICITY GENERATION USING SOLAR TRACKING SYSTEMS

Andreja Stefanović

- 1.3. #243 IZBOR ODGOVARAJUĆE GREŠKE PROGNOZE ZA ADEKVATNU PROCENU USPEŠNOSTI OPERATIVNOG PLANIRANJA PROIZVODNJE RAZLIČITIH TIPOVA OBNOVLJIVIH IZVORA ENERGIJE
SELECTION OF APPROPRIATE FORECAST ERROR FOR ADEQUATE ASSESSMENT OF OPERATIONAL PLANNING ACCURACY OF THE PRODUCTION FROM DIFFERENT TYPES OF RENEWABLE ENERGY SOURCES

Miroslav Divčić, Mladen Apostolović, Bratislav Džombić

- 1.4. #250 ANALIZA KAPACITETA ZA IZGRADNJU FOTONAPONSKIH SISTEMA NA KROVOVIMA STAMBENIH ZGRADA U SRBIJI

ANALYSIS OF THE PHOTOVOLTAIC SYSTEMS CONSTRUCTION CAPACITIES ON THE RESIDENTIAL ROOFTOPS IN SERBIA

Iva Batić, Aleksandar Ivančić

- 1.5. #268 STATISTIČKA ANALIZA PROCENE VETROPOTENCIJALA NA TERITORIJI GRADA KRAGUJEVCA

STATISTICAL ANALYSIS OF THE ASSESSMENT OF WIND POTENTIAL IN THE TERRITORY OF THE CITY OF KRAGUJEVAC

Aleksandar Nešović, Nikola Komatina

2. KONVENCIONALNA ENERGETIKA I NJENO SUOČAVANJE SA ENERGETSKOM TRANZICIJOM; POVEZIVANJE ELEKTROENERGETSKOG SEKTORA SA SEKTORIMA GREJANJA, TRANSPORTA I INDUSTRIJE; MULTISEKTORSKI ZADACI U OBLASTI UNAPREĐENJA ŽIVOTNE SREDINE NA PUTU REPUBLIKE SRBIJE PREMA EU
CONVENTIONAL ENERGY AND ITS DEALING WITH THE ENERGY TRANSITION; MULTISECTORAL TASKS IN THE FIELD OF ENVIRONMENTAL IMPROVEMENT ON THE ROAD OF THE REPUBLIC OF SERBIA ACCORDING TO THE EU

Sala / Hall 2

Predsedavajući / Chairman: **Aleksandar Madžarević**

- 2.1. #215 UTICAJ NOVIH ENERGETSKIH TEHNOLOGIJA NA NIVO ENERGETSKE PRAVDE
THE IMPACT OF NEW ENERGY TECHNOLOGIES ON THE LEVEL OF ENERGY JUSTICE

Miroslav Parović

- 2.2. #228 PRIMJENOM OTPADNE DRVNE BIOMASE I MISCANTHUSA DO ODRŽIVOG SEKTORA TERMOENERGETIKE U VREMENU ENERGETSKE TRANZICIJE

SUSTAINABLE ENERGY SECTOR USING WASTE WOODY BIOMASS AND MISCANTHUS IN THE ENERGY TRANSITION

Nihad Hodžić, Kenan Kadić, Anes Kazagić

- 2.3. #246 UTICAJ KVALITETA UGLJA NA OSTVARENU SNAGU GENERATORA TERMOELEKTRANE NAZIVNE SNAGE 300 MW

THE IMPACT OF COAL QUALITY ON THE GENERATOR'S ACHIEVED POWER OF THE 300 MW THERMAL POWER PLANT

Nikola Miljković, Aca Jovanović, Nikola Jovanović

- 2.4. #253 PROIZVODNJA ELEKTRIČNE ENERGIJE IZ ELEKTRANA NA UGALJ I PRATEĆA EMISIJA CO₂: KOMPARACIJA EU-27 I SRBIJE

PRODUCTION OF ELECTRICITY FROM COAL-FIRED POWER PLANTS AND ACCOMPANYING CO₂ EMISSIONS: COMPARISON OF EU-27 AND SERBIA

Aleksandar Madžarević, Predrag Jovančić, Stevan Đenadić, Filip Miletić, Miroslav Crnogorac

- 2.5. #257 ENERGETSKO-EKONOMSKE ANALIZE U POSTUPKU IZBORA KAPACITETA ZA PROIZVODNJU ELEKTRIČNE ENERGIJE

ENERGY-ECONOMIC ANALYSIS IN THE PROCEDURE OF SELECTING THE CAPACITY FOR THE PRODUCTION OF ELECTRICAL ENERGY

Slobodan Milić

- 2.6. #260 IDEJNO REŠENJE ZELENOG PV – VODONIK KOMPLEKSA NA POSTOJEĆOJ INFRASTRUKTURI TERMOELEKTRANE MORAVA

CONCEPTUAL SOLUTION OF THE GREEN PV - HYDROGEN COMPLEX ON THE EXISTING INFRASTRUCTURE OF THE THERMAL POWER PLANT MORAVA

Mina Dimić, Željko Đurišić, Perica Stančević

- 2.7. #269 ANALIZA ENERGETSKE EFIKASNOSTI I INDIKATORI ODRŽIVOSTI NAFTNE INDUSTRIJE U SRBIJI
ANALYSIS OF ENERGY EFFICIENCY AND SUSTAINABILITY INDICATORS OF THE PETROLEUM INDUSTRY IN SERBIA

Andrija Avramović (Studentski rad)

- 2.8. #271 ANALIZA UTICAJA DISTRIBUIRANE PROIZVODNJE NA PRILIKE U PRENOSNOM SISTEMU
ANALYSIS OF THE INFLUENCE OF DISTRIBUTED PRODUCTION IN THE TRANSMISSION SYSTEM

Miljan Zikić, Vladan Ristić

Četvrtak, 14. septembar 2023 / Thursday, September 14, 2023

09:00 – 10:30

3. POVEZIVANJE ELEKTROENERGETSKOG SEKTORA SA SEKTORIMA GREJANJA, TRANSPORTA I INDUSTRIJE
CONNECTING THE ELECTRIC POWER SECTOR WITH THE HEATING, TRANSPORT AND INDUSTRY SECTORS

Sala / Hall 1

Predsedavajući / Chairman: Tomislav Rajić

- 3.1. #209 PREDLOG POVEZIVANJA VELIKIH DATA CENTARA I PRIPADAJUĆIH OBJEKATA ZA PROIZVODNJU ELEKTRIČNE ENERGIJE U ELEKTROENERGETSKI SISTEM

A PROPOSAL TO CONNECT LARGE DATA CENTERS AND ASSOCIATED POWER PLANTS IN THE POWER SYSTEM

Ivan Vujović, Zoran Stojanović, Željko Đurišić (Studentski rad)

- 3.2. #210 SIMULACIJA PROCESA ZA PROCENU KOLIČINE BIOGASA KOJA SE MOŽE DOBITI U DIGESTORIMA OD ODGOVARAJUĆIH ULAZNIH SIROVINA

SIMULATION OF THE BIOGAS QUANTITY ASSESSMENT PROCESS THAT CAN BE OBTAINED IN DIGESTERS OF APPROPRIATE INPUT RAW MATERIALS

Srećko Ćurčić, Miroslav Bjekić, Nikola Stanković

- 3.3. #214 SIMULATION OF THE PROCESS FOR THE ASSESSMENT OF ENERGY AND ECONOMIC PROFIT FROM WASTE TIMBER AND AGRICULTURAL BIOMASS

Srećko Ćurčić, Miroslav Bjekić

- 3.4. #221 BIDIREKCIJONA ELEKTRIČNA VOZILA KAO ZNAČAJAN RESURS ZA BALANSIRANJE EES
BIDIRECTIONAL ELECTRIC VEHICLES AS A SIGNIFICANT RESOURCE FOR EES BALANCE

Saša Zdravković, Marko Zarić, Milan Blažić

- 3.5. #227 INDUSTRIAL WASTE HEAT POTENTIAL FOR MEETING HEAT DEMAND IN THE REPUBLIC OF SERBIA
Dejan Ivezić, Marija Živković
- 3.6. #234 KINEMATIC AND DYNAMIC ANALYSIS OF THE WORKING MECHANISM OF BUCKET EXCAVATOR WITH TRIPower SYSTEM
Vujadin Aleksić, Srđan Bulatović, Bojana Zečević, Ana Maksimović, Ljubica Milović
- 3.7. #236 RAZVOJ SOFTVERSKOG SISTEMA ZA PROCENU POTENCIJALA ZA INSTALACIJU KROVNIH SOLARNIH SISTEMA U RURALNIM PODRUČJIMA
DEVELOPMENT OF A SOFTWARE SYSTEM FOR ASSESSING THE POTENTIAL FOR INSTALLATION OF ROOFTOP SOLAR SYSTEMS IN RURAL AREAS
Filip Kulić, Vladimir Bugarski, Aleksandar Selakov
- 3.8. #259 SPREGA SIMULACIONOG PLANERSKOG ALATA SA ALATOM ZA PRORAČUN TOKOVA SNAGA: STUDIJA SLUČAJA REPUBLIKE SRBIJE
COUPLING A SIMULATION PLANNING TOOL WITH THE POWER FLOW CALCULATION TOOL: CASE STUDY OF THE REPUBLIC OF SERBIA
Nikola Rajaković, Bojan Ivanović, Ilija Batas Bjelić, Tomislav Rajić
4. ELEKTROENERGETSKE MREŽE I TRŽIŠTA U ENERGETICI / ELECTRIC POWER NETWORKS AND MARKETS IN ENERGY
Sala / Hall 2
Predsedavajući / Chairman: Darko Šošić
- 4.1. #205 ULOGA ZAJEDNICA OBNOVLJIVIH IZVORA ENERGIJE U ENERGETSKOJ TRANZICIJI
THE ROLE OF COMMUNITIES OF RENEWABLE ENERGY SOURCES IN THE ENERGY TRANSITION
Miloš Kuzman, Dunja Grujić
- 4.2. #211 REKONFIGURACIJA I OTOČNA KOMPENZACIJA U PRISUSTVU DISTRIBUIRANIH IZVORA U RAZGRANATOJ DISTRIBUTIVNOJ MREŽI
DISTRIBUTION NETWORK RECONFIGURATION AND CAPACITOR SWITCHING IN THE PRESENCE OF DISTRIBUTED RESOURCES IN LARGE SCALE DISTRIBUTION SYSTEM
Branko Stojanović, Tomislav Rajić, Darko Šošić
- 4.3. #212 UTICAJ SOLARNIH PANELA NA GUBITKE U NISKONAPONSKOJ MREŽI
INFLUENCE OF SOLAR PANELS ON LOSSES IN THE LOW-VOLTAGE NETWORK
Siniša Spremić, Aleksandar Antonić
- 4.4. #239 DETEKCIJA I OTKLANJANJE UZROKA NESTABILNOG RADA SISTEMA
DETECTION AND ELIMINATION OF THE CAUSES OF UNSTABLE SYSTEM OPERATION
Bojan Ivanović
- 4.5. #266 NOVI MODEL OBRAČUNA ELEKTRIČNE ENERGIJE KUPACA-PROIZVOĐAČA
NEW MODEL OF CALCULATING ELECTRICITY OF PROSUMERS
Dunja Grujić, Miloš Kuzman, Željko Đurišić
- 4.6. #267 UNAPREĐIVANJE NAČINA OBRAČUNA PRISTUPA DISTRIBUTIVNOM SISTEMU ELEKTRIČNE ENERGIJE
IMPROVING THE WAY OF CALCULATING ACCESS TO THE ELECTRICITY DISTRIBUTION SYSTEM
Dunja Grujić, Miloš Kuzman, Željko Đurišić
- 4.7. #272 PRIMENA ŠIRINSKE PRETRAGE I GEOREFERENCIRANJA ZA ODREĐIVANJE OPTIMALNE TRASE DALEKOVODA
APPLICATION OF BREADTH-FIRST SEARCH AND GEOREFERENCING FOR OPTIMIZING OVERHEAD LINE ROUTE
Vladan Ristić, Darko Šošić, Dragana Ristić
- 4.8. #278 MOGUĆNOSTI DALJINSKOG UPRAVLJANJA NA SREDNjenaponskoj DISTRIBUTIVNOJ MREŽI
POSSIBILITY OF REMOTE CONTROL OF THE MEDIUM VOLTAGE DISTRIBUTION NETWORK
Vladimir Ostračanin

5. ENERGETSKA EFIKASNOST (DOMAĆINSTVA, KOMUNALNI SEKTOR, INDUSTRIJA, ZGRADARSTVO...)

ENERGY EFFICIENCY (HOUSEHOLDS, UTILITY SECTOR, INDUSTRY, CONSTRUCTION...)

Sala / Hall 1

Predsedavajući / Chairman: **Vladimir Vukašinović**

5.1. #232 REALIZACIJA SISTEMA MONITORINGA POTROŠNJE I KONTROLE KVALITETA NAPAJANJA U KOMPANIJI GRUNER SERBIAN DOO

REALIZATION OF THE CONSUMPTION MONITORING AND POWER QUALITY CONTROL SYSTEMS IN THE COMPANY GRUNER SERBIAN DOO

Bojan Simonović, Miodrag Vuković, Željko V. Despotović

5.2. #238 MOGUĆNOST POVEĆANJA EFIKASNOSTI BRODSKOG POGONA SA GASnim TURBINAMA OTVORENOG CIKLUSA

THE POSSIBILITY OF INCREASING THE EFFICIENCY OF SHIP PROPULSION WITH OPEN CYCLE GAS TURBINES

Draško Kovač, Sead Cvrk, Miroslav Vukičević

5.3. #245 ENERGETSKA EFIKASNOST DOMAĆINSTVA SA TOPLONOM PUMPOM I SOLARNOM ELEKTRANOM

ENERGY EFFICIENCY OF HOUSEHOLDS WITH A HEAT PUMP AND A SOLAR POWER PLANT

Zoran Simendić, Goran Švenda, Tatjana Latas, Dalibor Mraović

5.4. #247 TEHNO-EKONOMSKA ANALIZA UGRADNJE TOPLONNE PUMPE ZA ZAGREVANJE STAMBENOG PROSTORA KAO ZAMENE ZA ELEKTRIČNI KOTAO

TECHNO-ECONOMIC ANALYSIS OF THE INSTALLATION OF A HEAT PUMP FOR HEATING LIVING SPACE AS A REPLACEMENT FOR AN ELECTRIC BOILER

Mladen Josijević, Dušan Gordić, Vladimir Vukašinović, Jelena Nikolić, Dubravka Živković

5.5. #249 POTROŠNJA VODE, ELEKTRIČNE ENERGIJE I KARBONSKI OTISAK VEŠ MAŠINA

ELECTRICITY CONSUMPTION AND CARBON FOOTPRINT OF WASHING MACHINES

Filip Nastić, Dušan Gordić, Vladimir Vukašinović, Davor Končalović, Jelena Nikolić, Nebojša Jurišević

5.6. #252 TEHNO-EKONOMSKA ANALIZA SISTEMA ZA GREJANJE I HLAĐENJE U STAMBENOM OBJEKTU KOJI KORISTI TOPLONU PUMPU ZEMLJA-VODA

ANALYSIS OF THE APPLICATION OF A GEOTHERMAL HEAT PUMP FOR HEATING AND COOLING OF A BUILDING

Aleksa Savić, Vanja Šušteršić, Mladen Josijević, Aleksandar Nešović, Nebojša Jurišević, Vladimir Vukašinović

5.7. #265 ENERGO KONCEPT YAODONG PODZEMNIH ZGRADA U XXI VEKU NA TERITORIJI SRBIJE

ENERGY CONCEPT OF YAODONG UNDERGROUND BUILDINGS IN THE XXI CENTURY ON THE TERRITORY OF SERBIA

Aleksandar Nešović, Danijela Nikolić, Nebojša Lukić

6. NOVE TEHNOLOGIJE U ENERGETICI

NEW TECHNOLOGIES IN ENERGY

Sala / Hall 2

Predsedavajući / Chairman: **Željko Despotović**

6.1. #207 PREDVIĐANJE PROIZVODNJE TERMOELEKTRANE POMOĆU NEURALNIH MREŽA

NEURAL NETWORKS MODELING FOR THERMAL PLANTS PRODUCTION PLANNING

Sonja Knežević, Mleta Žarković

- 6.2. #218 UNAPREĐENJE SISTEMA ZAŠTITE MEŠOVITIH VODOVA PRIMENOM NEKONVENCIONALNE MERNE OPREME
IMPROVEMENT OF THE MIXED CIRCUIT PROTECTION SYSTEMS USING NON-CONVENTIONAL MEASURING EQUIPMENT
Milena Lekić, Milorad Kuč, Strahinja Vuković, Blagoje Gojković, Željko Đurišić, Zoran Stojanović
- 6.3. #220 SAVREMENE TENDENCIJE ENERGETSKE TRANZICIJE – TEHNOLOGIJE I MATERIJALI ZA SKLADIŠTENJE ENERGIJE
CONTEMPORARY TENDENCIES OF THE ENERGY TRANSITION - TECHNOLOGIES AND MATERIALS FOR ENERGY STORAGE
Negovan Ivankačić, Vanja Gujančić, Miloš Nikolić, Stevan Stupar
- 6.4. #223 REALIZACIJA POSTROJENJA ZA DETEKCIJU I IZDVAJANJE METALA NA TRANSPORTNOJ TRACI NA DOPREMI UGLJA U TE „KOSTOLAC“
REALIZATION OF THE PLANT FOR DETECTION AND SEPARATION OF METAL PARTS ON THE CONVEYOR BELT FOR THE DELIVERY OF COAL TO TE "KOSTOLAC"
Željko V. Despotović, Dejan Đokić, Boris Ilić, Dragan Milisavljević
- 6.5. #224 ANALIZA MAGNETNOG POLJA I PRIVLAČNE SILE ELEKTROMAGNETNOG SEPARATORA METODOM KONAČNIH ELEMENATA
ANALYSIS OF THE MAGNETIC FIELD AND ATTRACTIVE FORCE OF THE ELECTROMAGNETIC SEPARATOR USING THE FINITE ELEMENT METHOD
Željko V. Despotović, Đorđe Lekić
- 6.6. #225 DALJINSKI NADZOR I KONTROLA HIBRIDNOG POSTROJENJA ZA NAVODNJAVA USEVA NA POLJOPRIVREDNOJ PARCELI U MESTU BELEGIŠ
REMOTE MONITORING AND CONTROL OF A HYBRID POWER PLANT FOR IRRIGATION OF CROPS ON AN AGRICULTURAL PLOT IN THE TOWN OF BELEGIŠ
Željko V. Despotović, Ilijia Stevanović, Jovan Šumarac
- 6.7. #231 PREDLOG REŠENJA DVOOSNOG MOBILNOG SOLARNOG TRAGAČA SA MOGUĆNOŠĆU AKUMULIRANJA ENERGIJE
SOLUTION PROPOSAL FOR A TWO-AXIS MOBILE SOLAR TRACKER WITH ENERGY ACCUMULATION POSSIBILITY
Marko Đurović, Željko V. Despotović
- 6.8. #275 DEGAZACIJA VODE UPOTREBOM MEMBRANSKE TEHNOLOGIJE - EVALUACIJA PROJEKTA I ISKUSTVA NAKON 12 GODINA KORIŠĆENJA
DEGASIFICATION OF WATER USING MEMBRANE TECHNOLOGY - PROJECT EVALUATION AND EXPERIENCES AFTER 12 YEARS OF USAGE
Aleksandar Stojanović

Petak, 15. septembar 2023 / Friday, September 15, 2023

09:00 – 10:30

7. MULTISEKTORSKI ZADACI U OBLASTI UNAPREĐENJA ŽIVOTNE SREDINE NA PUTU REPUBLIKE SRBIJE PREMA EU
MULTISECTORAL TASKS IN THE FIELD OF ENVIRONMENTAL IMPROVEMENT ON THE ROAD OF THE REPUBLIC OF SERBIA TO THE EU
Sala / Hall 1
Predsedavajući / Chairman: *Jelena Nikolić*
- 7.1. #216 ANALIZA UTICAJA BUKE U FAZI IZGRADNJE I EKSPLOATACIJE PARKA VETROELEKTRANA NA LOKALITETU KOSTOLCA
ANALYSIS OF THE IMPACT OF NOISE DURING THE CONSTRUCTION AND EXPLOITATION PHASE OF THE WIND PARK IN KOSTOLAC
Nikola Stanković

- 7.2. #233 PLANIRANJE ENERGETSKE BUDUĆNOSTI GRADA: SWOT ANALIZA-STUDIJA SLUČAJA GRADA KRAGUJEVCA
PLANNING THE ENERGY FUTURE OF THE CITY: SWOT ANALYSIS -CASE STUDY OF THE CITY OF KRAGUJEVAC
Jelena Nikolić, Dušan Gordić, Vladimir Vukašinović, Mladen Josijević, Dubravka Živković
- 7.3. #241 ODREĐIVANJE EMISIJE GASOVA STAKLENE BAŠTE U INDUSTRIJI NAFTE I GASA
INTEGRATIVE GHG ASSESSMENT IN OIL AND GAS INDUSTRY
Aleksandar Mirković, Marija Živković, Stevan Đenadić, Darja Lubarda, Chinedu Anyanwu
- 7.4. #206 SISTEMI ZA UPRAVLJANJE DISTRIBUIRANIM ENERGETSKIM RESURSIMA – DERMS
SYSTEMS FOR MANAGEMENT OF DISTRIBUTED ENERGY RESOURCES - DERMS
Luka Strezoski
- 7.5. #248 CYBER PHYSICAL SECURITY OF DISTRIBUTED ENERGY RESOURCES
Luka Strezoski, Zorana Babić, Dejan Milojičić
- 7.6. #258 PREDLOG MODELA ZA PREDVIDJANJE KONCENTRACIJE SUSPENDOVANIH (PM2.5) ČESTICA U VAZDUHU
PROPOSED MODEL FOR PREDICTING THE CONCENTRATION OF SUSPENDED (PM2.5) PARTICLES IN THE AIR
Filip Nastić (Studentski rad)
- 7.7. #270 OSNAŽIVANJE ENERGETSKE TRANZICIJE U SEKTORU DOMAĆINSTVA U SRBIJI: INTEGRATIVNI PRISTUP
EMPOWERING ENERGY TRANSITION IN SERBIAN HOUSEHOLD SECTOR: AN INTEGRATIVE APPROACH
Boban Pavlović
- 7.8. #274 ISKUSTVA IZ IZGRADNJE SOLARNIH FOTONAPONSKIH ELEKTRANA NA STANICAMA ZA SNABDEVANJE GORIVOM U SVOJSTVU KUPCA-PROIZVOĐAČA
EXPERIENCES IN THE CONSTRUCTION OF SOLAR PHOTOVOLTAIC POWER PLANTS MOUNTED AT FUEL SUPPLY STATIONS AS A PROSUMER
Rastislav Kragić, Biljana Lovčević-Kureljušić, Valentina Arambašić, Željko Blitva, Nenad V. Pavlović
8. EKONOMSKA I REGULATORNO-RAZVOJNA PITANJA ENERGETSKOG SEKTORA
ECONOMIC AND REGULATORY AND DEVELOPMENT ISSUES OF THE ENERGY SECTOR
Sala / Hall 2
Predsedavajući / Chairman: Sonja Josipović
- 8.1. #217 POTENCIJALI KORIŠĆENJA RAZLIČITIH SUSPTRATA U PROCESU PROIZVODNJE BIOGASA
POTENTIALS OF USING DIFFERENT SUBSTRATES IN THE PROCESS OF BIOGAS PRODUCTION
Nikola Stanković, Srećko Ćurčić
- 8.2. #226 NEDOSTATAK REGULATIVE ZA POVLAŠĆENE PROIZVOĐAČE U SLUČAJU IZLASKA NA TRŽIŠTE
LACK OF REGULATION FOR PRIVILEGED PRODUCERS IN CASE OF ENTERING THE MARKET
Milica Glomazić, Ana Žarković
- 8.3. #237 PRIMJENA MULTIKRITERIJUMSKE ANALIZE ZA OPTIMIZIRANJE ENERGETSKIH SISTEMA HOTELA
APPLICATION OF MULTI-CRITERIA ANALYSIS FOR THE OPTIMIZATION HOTEL ENERGY SYSTEMS
Draško Kovač, Đorđe Nedeljkov, Martin Čalasan
- 8.4. #261 FINANCIAL IMPACT OF THE EU CARBON BORDER ADJUSTMENT MECHANISM ON ENERGY-INTENSIVE COMPANIES IN SERBIA
Maša Njegovan, Željko Marković
- 8.5. #273 KONFUZIJA U ENERGETSKOJ TRANZICIJI - SVET I SRBIJA DANAS
CONFUSION IN THE ENERGY TRANSITION – THE WORLD AND SERBIA TODAY
Petar Đukić, Slaviša Đukanović

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MESTO ODRŽAVANJA



Zlatibor je već godinama najposećenija planina u Srbiji. Ovaj planinski masiv nalazi se na putu ka *Jadranskom moru*, na samo 230 km od Beograda. Sa čak 220 sunčanih dana godišnje predstavlja idealno mesto za odmor i sportske aktivnosti, uključujući i zimske sportove. Ovaj planinski biser Srbije je dobio svoje ime po svojim zlatnim pašnjacima i prostranstvima grandioznih borovih šuma. Turizam na Zlatiboru počeo je da se razvija dolaskom kralja Aleksandra Obrenovića i njegovom posetom izvoru Kulaševac. Od tog trenutka, imućniji ljudi tog vremena počeli su da grade vile i letnjikovce, i na taj način započeli dugogodišnju tradiciju Zlatibora kao turističkog centra. Najviši vrh ovog parka prirode je *Tornik* (1496m), iznad kog se rascvetala *ruža vetrova* koja ovu planinu čini jedinstvenom oazom zdravlja. Zlatibor je planina koja godinama širi svoje ruke svima onima koji žele da uživaju u njenim prirodnim, istorijskim i kulturnim bogatstvima.

Zlatibor is a mountain of exceptional beauty, with the altitude of 700-1500 m, in southwestern Serbia, located 235 km away from Belgrade and the nearest airport. It is featured by mild climate conditions, spacious glades and lush pastures intersected with mountain brooks and colored by torrential pine trees that this mountain was named after. It is at this very place that mountain air currents collide with marine air currents to improve pulmonary and cardiac conditions, in particular those related to thyroid gland and anemia. On the outskirts of the Zlatibor central area, you can set out for an adventure – you can explore the beauty and vividness of both the nature and cultural & historical heritage. We sincerely hope you will have time to reveal the Zlatibor of your own.



Hotel Zlatibor Mona nalazi se u samom centru Zlatibora, okružen predivnom borovom šumom. Enterijer hotela pažljivo je biran i kreiran kako bi gostima, kroz spoj tradicionalnih i modernih elemenata, drvenih oplata i najfinijih tkanina u toplim tonovima, dočarao potpuni planinski ugođaj

tokom svih godišnjih doba. Hotel Zlatibor Mona gostima nudi 120 prostranih i toplih soba i apartmana, opremljenih svim modernim sadržajima neophodnim za potpuni odmor i opuštanje, uključujući WC, TV, kablovsku televiziju sa preko 40 kanala, sef, mini bar, fen, telefon i besplatnu internet konekciju. Sve smeštajne jedinice u hotelu Zlatibor Mona su klimatizovane. Uz smeštajne kapacitete, hotel nudi mnoštvo opcija za razonodu, zabavu i obroke, poput Restorana Perun, Vila i Lada Bara, igraonice za decu Monica, kao i kompletno opremljenog Wellness centra – Inspirium.



Hotel Zlatibor Mona is surrounded by beautiful pine trees, located in the very center of Zlatibor. The hotel interior is carefully selected and designed to present the guests with a complete mountain experience during all seasons through a combination of traditional and modern elements, wooden paneling and the finest

fabrics in warm tones. Hotel Zlatibor Mona offers 120 spacious and warm rooms and suites, equipped with all modern amenities necessary for a complete vacation and relaxation, including a bathroom, TV, cable TV with over 40 channels, safe, mini bar, blow dryer, telephone, and free internet connection. All accommodation units at the Zlatibor Mona Hotel are air-conditioned. In addition to the accommodation facilities, the hotel offers numerous leisure, entertainment and meal options, such as the Perun Restaurant, Vila Restaurant, Lada Bar, Little Mona playroom for children, and Inspirium - a fully equipped wellness center, which is available to all guests during their stay.

