



*5<sup>th</sup>*  
**SEERC**  
CONFERENCE  
**SARAJEVO**  
JUNE 4–5, 2025

**CONFERENCE PROGRAMME**



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# CONTENTS

ABOUT SEERC.....	4
EDITORIAL, EDHEM BIČAKČIĆ, PRESIDENT OF SEERC .....	5

## ORGANIZATION

5TH SEERC CONFERENCE IN SARAJEVO.....	7
COMMITTEES AND CHAIRS .....	8
TECHNICAL PROGRAMME .....	9

## FOR PARTICIPANTS

REGISTRATION/APPLICATION, WORK AND DISCUSSION AT THE CONFERENCE .....	10
LIST OF EXIBITORS .....	12
LIST OF COMERCIAL PRESENTATION .....	13
PANEL PRESENTATION .....	14
PANEL WIE (Women in Energy) AND PANEL NGN (Next Generation Network) .....	15
GENERAL PROGRAMME.....	16
THE LIST OF ACCEPTED PAPERS .....	20
COMERCIAL PRESENTATION.....	39
SARAJEVO: THE HOST CITY .....	46



## ABOUT SEERC

CIGRE is one of the world's oldest international technical organizations and has a great tradition in the region of Central and South-East Europe. Many countries founded CIGRE National Committees as the central hub for information and knowledge sharing on electric power systems, as well as creation of new standards and recommendations. The South-East European Regional Council of CIGRE (SEERC) is expanding these positive aspects of CIGRE to South-East Europe. SEERC as one of four CIGRE regional councils, has seventeen-member countries including Austria, Bosnia and Herzegovina, Croatia, Chechia and Slovakia, Greece, Georgia, Hungary, Israel, Italy, Kosovo, Montenegro, North Macedonia, Romania, Serbia, Slovenia, Türkiye, Ukraine.

SEERC is chaired by one of the SEERC member countries for a period of two years, and the chair is transferred to another member every two years in alphabetical order. SEERC is currently chaired by the NC CIGRE Bosnia and Herzegovina.

The presiding CIGRE NC is responsible for the preparation and organization of the SEERC Conference.

The population of SEERC comprises more than 270 million persons and has a great potential for fast development of the power engineering sector. The close cooperation of South East European countries within SEERC offers better possibilities for the development of the future power network and the electricity market.



## Dear colleagues, ladies and gentlemen,

Sarajevo will host the 5<sup>th</sup> conference of the CIGRE South East European Regional Council (SEERC) on the 4<sup>th</sup> and 5<sup>th</sup> June 2025, a prestigious regional event in the field of power engineering, bringing together experts, scientists, industry representatives and decision-makers. Cooperation and innovation in the power sector in the region will be the focus of discussion among experts, industry representatives and decision-makers who will gather in Sarajevo. The event is organized by the Bosnia and Herzegovina CIGRE Committee, which has been chairing SEERC since 2023.

More than 400 participants are expected, representatives of power companies, scientific and research institutions, the academic community and international organizations. The technical program of the conference is structured around four key thematic areas and one special session. In a total of 137 selected papers, authors from 23 countries will present the latest research, examples of good practice and innovations in the field of energy through the following topics: increasing energy efficiency and capacity of renewable energy sources, new technologies and methods for accelerated decarbonization and digitalization of the power system; development of the electricity market - balancing and dynamic regulation; resilience of power systems and finally a special session, of systems and equipment, which will be the topic of a special session.

Three special panels will also be held as part of the conference: WIE – Women in Energy, the focus of the panel is on empowering women leaders in the energy sector through the promotion of innovation and diversity; NGN – Next Generation Network, dedicated to young professionals, their inclusion and career development in the power sector; The Historical Panel, which will be held on the last day of the conference, deals with the historical development of electrification in the region and important lessons that can serve as guidelines for the future.

The conference was recognized and supported by numerous domestic and international companies from the energy sector, which contribute to the overall quality of the program and accompanying activities through their sponsorship. This type of cooperation clearly confirms the strong connection of the industry with the engineering and scientific community, and emphasizes the common interest in the development of sustainable and innovative solutions in the field of electric power. Exhibitions, as well as commercial presentations in several periods, provide an opportunity for companies to present their solutions, innovations and products.



The energy transition will bring major and dramatic changes in the operation of power systems, the share of variable sources will increase, which will require greater flexibility and capacity building for energy balancing. On the other hand, to meet the requirements of the accelerated energy transition, it is necessary to expand the existing scope of activities with new ones such as: energy storage; hydrogen; digitalization; solar and wind power plants; networks and flexibility; consumers, prosumer electric vehicles; sustainability and climate; system integration.

Today's challenges of accelerated energy transition, with its key drivers such as digitalization, decentralization and decarbonization, significantly increase the role of power systems in the daily lives of societies, businesses and regulators around the world. New and existing organizations around the world are looking for expertise in the interaction between applied technologies in the energy transition and the power system.

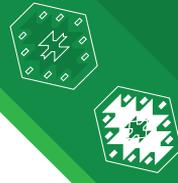
It seems that the energy future of Southeast Europe has begun under the lights of regional cooperation and innovation.

Deserving individuals, who have made a significant contribution to the profession, as well as to the establishment of the Regional CIGRE (SEERC), will be awarded for the first time.

On this occasion, I would like to especially thank our sponsors, authors, expert reporters, exhibitors, organizers, participants, guests and everyone who contributed to the good organization of this conference.

I wish all participants successful work and a pleasant stay in our Sarajevo.

**Edhem Bičakčić, president of SEERC**



## 5<sup>TH</sup> SEERC CONFERENCE IN SARAJEVO

The 5<sup>th</sup> SEERC Conference will be held on June 4–5, 2025, in Sarajevo, Bosnia and Herzegovina, at Hotel Hills, Thermal & Spa Resort. This significant event will gather leading experts, researchers, and industry professionals to discuss the latest advancements in electric power systems, renewable energy integration, and the future of the energy sector in the region.

During the Conference, you will meet leading experts, researchers, and industry professionals to discuss the latest developments in power systems, the integration of renewable energy sources, and the future of the energy sector in Southeast Europe.



**Hotel Hills, Congress center, Thermal Spa Resort, Sarajevo, Bosnia and Herzegovina**

Opening Ceremony, Keynote Session with Featured Speakers, Special Recognitions, WIE (Women in Energy) Panel, NGN (Next Generation Network) Panel, History Panel, Regional Cooperation Panel – Addressing challenges and opportunities in distribution network operations.

The program features a focus technical agenda, covering four key energy topics that will provide participants with the opportunity to explore the latest research and innovations in boosting energy efficiency and renewable energy capacity, accelerating decarbonization and digitalization of power systems, optimizing electricity market balancing and regulation, and tackling resilience challenges in power systems. A special session will explore the functionality of power systems and equipment.

In addition to the technical program, the Conference will serve as a platform for industry innovation and collaboration, through an exhibition and industry engagement.

## COMMITTEES

### **Honorary Chair**

Klaus Fröhlich

### **General Chair**

Edhem Bičakčić, NC CIGRE Bosnia and Herzegovina

### **Technical Chair**

Sabina Dacić-Lepara, JP Elektroprivreda BiH

### **Conference Organizer**

Zijad Bajramović, NC CIGRE Bosnia and Herzegovina

### **Organizing Committee**

Edhem Bičakčić, NC CIGRE Bosnia and Herzegovina

Zijad Bajramović, University of Sarajevo, Faculty of Electrical Engineering

Sabina Dacić-Lepara, JP Elektroprivreda BiH

Maja Muftić Dedović, University of Sarajevo, Faculty of Electrical Engineering

Namik Nuhanović, NC CIGRE Bosnia and Herzegovina

Ajla Merzić, NC CIGRE Bosnia and Herzegovina

Adnan Mujezinović, University of Sarajevo, Faculty of Electrical Engineering

Ajdin Alihodžić, University of Sarajevo, Faculty of Electrical Engineering

Edina Mašnić, NC CIGRE Bosnia and Herzegovina

Aida Toromanović, NC CIGRE Bosnia and Herzegovina

### **Technical Committee**

Sabina Dacić-Lepara, JP Elektroprivreda BiH, *Committee Chair*

### **Topic 1**

Krešimir Bakič, ESI Slovenia, *Chair*

Anes Kazagić, JP Elektroprivreda BiH, *Co-chair*

Gazmend Kabashi, KOSTT Kosovo, *Co-chair*

### **Topic 2**

Klemens Reich, Austrian Power Grid, *Chair*

Ajla Merzić, NC CIGRE Bosnia and Herzegovina, *Co-chair*

Ümit Çetinkaya, TEIAS Turkiye, *Co-chair*

### **Topic 3**

Enrico Maria Carlini, TERNA Italy, *Chair*

Nikola Tošić, JSC EMS Belgrade, *Co-chair*

### **Topic 4**

Vlatko Ećimović, HOPS Croatia, *Chair*

Marko Hrast, ELES d.o.o. Slovenia, *Co-chair*

Massimo Pompili, University of Roma "La Sapienza", *Co-chair*

### **Special Session**

Ajdin Alihodžić, University of Sarajevo, Faculty of Electrical Engineering, *Chair*

Mladen Banjanin, University of East Sarajevo, Faculty of Electrical Engineering, *Co-chair*

Irfan Turković, University of Sarajevo, Faculty of Electrical Engineering, *Co-chair*

### **Publication Chair**

Adnan Mujezinović, University of Sarajevo, Faculty of Electrical Engineering



# TECHNICAL PROGRAMME

Topics of the 5<sup>th</sup> SEERC Conference focus on state-of-the-art technologies, functionalities and methodologies in electric power systems and innovations in renewable energy within the SEERC region.

## CONFERENCE TOPICS

<b>Topic 1.</b>	Increasing energy efficiency of existing facilities and increasing renewable energy capacities.
<b>Topic 2.</b>	New technologies and methodologies for accelerated decarbonization and digitalization of electric power systems.
<b>Topic 3.</b>	Development of electricity market balancing and dynamic regulation.
<b>Topic 4.</b>	Resilience issues on the electric power systems.
<b>Special session</b>	Functionality of power systems and equipment.



# REGISTRATION/APPLICATION, WORK AND DISCUSSION AT THE CONFERENCE

## REGISTRATION

Upon arrival, participants should register at the SEERC Conference reception desk in the lobby of the Hills Hotel, where they will receive accreditation, conference materials and necessary information regarding the work of the Conference.

### Reception desk opening hours

<b>Tuesday</b>	<b>June 3</b>	<b>8:00 am – 8:00 pm</b>
<b>Wednesday</b>	<b>June 4</b>	<b>8:00 am – 8:00 pm</b>
<b>Thursday</b>	<b>June 5</b>	<b>8:00 am – 8:00 pm</b>

## WORK WITHIN TOPIC SESSIONS

The professional work at the Conference is based on the material presented in the reports and reviews. The discussion is conducted within the Topic session.

### Papers

Papers will be presented across four Topics and one special Session, and will be delivered either as oral or poster presentations.

### Presentations and Discussions

The presentation process will be led by the Topics and Session Chairs, following the order in which the papers are listed in the Program.

The time allocated for each presentation is as follows:

- Oral presentations: 15 minutes total — 12 minutes for the presentation and 3 minutes for discussion.
- Poster presentations within the four Topic: 30 minutes per presenter.
- Poster presentations within the Session: 60 minutes per presenter.

Discussants are required to submit a discussion request to the Chair prior to the session. The request must include the discussant's full name and the title of the paper they wish to discuss.

## TECHNICAL AID

A projector with a computer will be available to the discussants in the halls. Discussants should prepare presentations in electronic form in advance according to the provided Templates.



## REGISTRATION FEE

The right to participate in the 5th SEERC Conference is open to individuals and organizations that have paid the registration fee.

Payment of the registration fee is possible before the start of the Conference or upon registration.

The registration fee for the 5th SEERC Conference is:

Category	Before May 10, 2025.	After May 10, 2025.
CIGRE Members	350 €	400 €
Others	450 €	500 €
Students	100 €	150 €

**Note:** Authors and co-authors are eligible for a 100 EUR discount, while student authors/co-authors pay a reduced fee of 50 EUR.

Payment of the registration fee entitles you to: Conference materials, accreditation, participation in the work of the Conference, participation in the Gala dinner during the Conference.

The materials will be handed over at the reception desk of the SEERC Conference during registration.



## LIST OF EXIBITORS



**PFISTERER**





# LIST OF COMERCIAL PRESENTATION AND TIME OF PRESENTATION

**WEDNESDAY, JUNE 4, 2025**

## **TT Kabeli, Bosnia and Herzegovina**

*BAS 1058:2022 – Standard Overview for 300/500 V Installation Cable*

Presenter: Marko Zeljko

**13:00 – 13:45 HALL C**

## **Go2Power, Serbia**

*Go2Power Consulting*

Presenter: Goran Vukojević

**16:30 – 17:15 HALL C**

## **Energoinvest, Bosnia and Herzegovina**

*Energoinvest – Strength of tradition, energy of the future*

**17:30 – 18:15 HALL D**

**THURSDAY, JUNE 5, 2025**

## **MINEL TRAF0, Serbia**

*Minel Trafo – više od pola veka tradicije i kvaliteta (Minel Trafo - More than half a century of tradition and quality)*

Presenter: M.Sc.E.E., Miloš Vučković

**12:00 – 12:45 HALL D**

## **HUBBELL, USA**

*Hubbell Utility Solutions, USA*

**13:00 – 13:45 HALL C**



## PANEL PRESENTATIONS

### **PANEL: DISTRIBUTION GRIDS IN WESTERN BALKANS AND EU – CURRENT CHALLENGES AND FUTURE STEPS**

**Thursday, June 5, 2025., Time: 09.00 – 11.00, HALL D**

#### **CONCEPT FOR PANEL:**

Distribution grids are at the center of the energy transition. With the rapid rise of decentralized energy resources, electrification of transport and heating, and the need for enhanced resilience and flexibility, distribution systems face unprecedented challenges. Simultaneously, they must evolve to become smarter, more adaptive, and customer centric. In addition, there is a fundamental transformation driven by digital technologies. As the demand for decentralized energy resources, electric vehicles, and real-time grid management grows, digitalization emerges as a key enabler for smarter, more flexible, and more resilient distribution systems. While EU member states are pushing forward with smart grid investments, flexibility services, and digitalization, many distribution system operators (DSO's) in the Western Balkans face investment gaps, regulatory uncertainty, and limited access to innovation framework. The objective of panel is to assess the key challenges currently facing DSOs in the Western Balkans, while also exploring best practices from EU member states.

**Panel structure:** Session will be conducted in three main parts:

The session will be conducted in three main parts:

- (1) Short opening by the moderator,
- (2) Panel discussion facilitated by the moderator.
- (3) Questions from audience

The panel will include a maximum of seven (7) experts and representatives from ministries and regulatory bodies.

#### **KEY TAKEAWAYS FOR AUDIENCE:**

- (1) Experiences: Status and challenges for grid and RES development in Western Balkan an EU.
- (2) (Planned) Activities: Overview of activities by relevant actors dealing with distribution grids

#### **Expected audience:**

Representatives from ministries, regulatory bodies, grid operators, academia,



## WELCOMING REMARKS (FOR MODERATOR):

Time:	Topic:	Presenter/Panelists:
09:00 – 11:00	Welcome / setting the scene	
<p>Panel discussion, two or three rounds of questions for each panelist</p> <p>Planned are questions from the audience to panelists</p>	<p><b>Moderator:</b> Nermin Suljanović, EIMV, Electrical faculty Tuzla</p> <p><b>Panelists:</b></p> <ol style="list-style-type: none"> <li>1. Goran Kovačević – CEDIS, Montenegro</li> <li>2. Elvisa Bećirović – EP BiH, BiH</li> <li>3. Goran Majstrovich, Energy institute Hrvoje Požar, Croatia</li> <li>4. Igor Podbelšek, EIMV, Slovenia</li> <li>5. Mario Jašić, GIZ, BiH</li> <li>6. Vladimir Arnaut, Elektrokrajna, BiH</li> <li>7. Enrique Salazar - KfW, Germany</li> </ol>	

## PANEL WIE (WOMEN IN ENERGY) AND PANEL NGN (NEXT GENERATION NETWORK)

### PANEL: WOMEN IN ENERGY

#### *Strengthening the Bridge between Academia and Industry*

Wednesday, June 4, 2025 | Venue: Hotel Hills Sarajevo, Time: 14.00 – 16.00, HALL C

This panel will address the challenges and opportunities in strengthening collaboration between academic institutions and the energy industry, with a focus on the role of women in driving innovation and transition.

#### Panelists:

- Rannveig Loken, Vice-President of CIGRE, Norway
- Prof. Mihaela Albu, Politehnica University of Bucharest, Romania
- Prof. Paola Verde, University of Cassino and Southern Latium (Unicas), Italy
- Andreea Paula Bădulescu, Hitachi Energy Italy S.p.A., Italy
- Pranvera Dobruna Kryeziu, CIGRE NC, President of CIGRE Kosovo

**Moderator:** Dr. Maja Muftić Dedović, Chair of WiE Bosnia and Herzegovina.

### PANEL: NEXT GENERATION NETWORK

Thursday, June 5, 2025., Time: 11.30 – 13.30, HALL C



## GENERAL PROGRAMME

### TUESDAY, JUNE 3, 2025

TIME	PROGRAMME	HALL
08:00 – 20:00	<b>Registration</b>	HOTEL HALL
16:00 – 18:30	SEERC MB and TAC MEETING	HALL PANORAMA

### WEDNESDAY, JUNE 4, 2025

TIME	PROGRAMME	HALL
08:00 – 20:00	<b>Registration</b>	HOTEL HALL

TIME	OPENING SESSION	HALL
9:00 – 10:30	<b>Edhem Bičakčić</b> President of SEERC	CONGRESS HALL
	<b>Rannveig S. J. Løken</b> CIGRE Technical Council Chair	
	<b>Klaus Fröhlich</b> Honorary President of the 5 <sup>th</sup> SEERC Conference	
	<b>AWARD CEREMONY SEERC</b> <b>AWARD CEREMONY NC CIGRE BH</b> <b>WELCOME SPEECH FROM SPONSORS AND PARTNERS</b>	

TIME	KEYNOTE SESSION	HALL
10:30 – 12:00	<b>Risk Management of Future Large-Scale Electrification</b> Mladen Kezunović, Professor Texas A&M University	CONGRESS HALL
	<b>New Interconnection Projects Between Europe and Nord Africa</b> Angelo Ferrante, Secretary General of Med - TSO	
	<b>Strengthening Cross-Border Collaboration for Energy Transition: The Case of B&amp;H and the Surrounding Region</b> Ajla Merzić, Vice President of CIGRE NC Bosnia and Herzegovina, Energy Expert KfW	



TIME	ORAL SESSION	HALL
13:00 – 16:00	<b>TOPIC 1</b>	CONGRESS HALL 1
13:00 – 16:00	<b>TOPIC 4</b>	CONGRESS HALL 2

16:30 – 19:00	<b>TOPIC 1</b>	CONGRESS HALL 1
16:30 – 19:00	<b>TOPIC 4</b>	CONGRESS HALL 2

TIME	POSTER SESSION	HALL
13:00 – 16:00	<b>TOPIC 2</b>	A
13:00 – 16:00	<b>SPECIAL SESSION</b>	B
16:30 – 19:00	<b>TOPIC 2</b>	A
16:30 – 19:30	<b>SPECIAL SESSION</b>	B

TIME	FORUM	HALL
14:00 – 16:00	<b>WIE (Women in Energy) Panel</b>	C

TIME	COMMERCIAL PRESENTATION	HALL
13:00 – 13:45	TT Kabeli, Bosnia and Herzegovina	C
16:30 – 17:15	Go2Power, Serbia	C
17:30 – 18:15	Energoinvest, Bosnia and Herzegovina	D

TIME		HALL
20:00 – 23:00	<b>GALA DINNER*</b> <b>AWARD CEREMONY FOR SPONSORS</b>	HOTEL HILLS

TIME	BREAK	HALL
12:00 – 15:00	<b>TIME FOR LUNCH</b>	HOTEL HILLS
16:00 - 16:30	<b>COFFEE/TEA BREAK**</b>	HOTEL HILLS

\* Gala dinner – for participants with registration fee

\*\* Coffee/Tea Break – for all Conference participants



**THURSDAY, JUNE 5, 2025**

TIME	PROGRAMME	HALL
08:00 – 18:00	<b>Registration</b>	HOTEL HALL

TIME	ORAL SESSION	HALL
9:00 – 11:00	<b>TOPIC 2</b>	CONGRESS HALL 1
9:00 – 11:00	<b>TOPIC 3</b>	CONGRESS HALL 2

11:30 – 14:00	<b>TOPIC 2</b>	CONGRESS HALL 1
11:30 – 14:00	<b>TOPIC 3</b>	CONGRESS HALL 2

TIME	POSTER SESSION	HALL
9:00 – 11:00	<b>TOPIC 1</b>	A
9:00 – 12:00	<b>SPECIAL SESSION</b>	B
9:00 – 11:00	<b>TOPIC 4</b>	C

TIME	POSTER SESSION	HALL
11:30 – 14:00	<b>TOPIC 1</b>	A

TIME	FORUM	HALL
11:30 – 13:30	<b>NGN (Next Generation Network) Panel</b>	C

TIME	PANEL	HALL
9:00 – 11:00	<b>GIZ PANEL: Distribution grids in Western Balkans and EU – current challenges and future steps</b>	D
15:00 – 16:30	<b>HISTORY PANEL</b>	CONGRESS HALL 1

TIME	COMMERCIAL PRESENTATION	HALL
12:00 – 12:45	MINEL TRAFKO, Serbia	D
13:00 – 13:45	HUBBELL, USA	D





TIME	CLOSING SESSION	HALL
17:00 – 18:00	<b>AWARD CEREMONY</b>	
	<b>ANNOUNCEMENT OF THE BEST PAPERS OF THE 5TH SEERC CONFERENCE AND ACKNOWLEDGMENT OF INDIVIDUAL CONTRIBUTIONS</b>	
	Edhem Bičakčić, President of SEERC	
	<b>HANDOVER CEREMONY OF SEERC PRESIDENCY TO NC CROATIA</b>	CONGRESS HALL
	Representatives of NC CIGRE Bosnia and Herzegovina and NC CIGRE Croatia	
	<b>CLOSING REMARKS</b>	
	Zijad Bajramović, President of CIGRE NC Bosnia and Herzegovina	

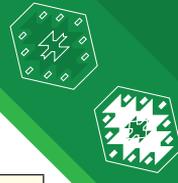
TIME	BREAK	HALL
11.00 - 11.30	<b>COFFEE/TEA BREAK</b>	HOTEL HILLS
12.00 – 15.00	<b>TIME FOR LUNCH</b>	HOTEL HILLS
16.30 - 17.00	<b>COFFEE/TEA BREAK*</b>	HOTEL HILLS

\* Coffee/Tea Break - for all Conference participants



# THE LIST OF ACCEPTED PAPERS / ORAL AND POSTER PRESENTATION /

<b>TOPIC 1</b>		
<b>INCREASING ENERGY EFFICIENCY OF EXISTING FACILITIES AND INCREASING RENEWABLE ENERGY CAPACITIES</b>		
<b>ORAL PRESENTATION</b>	<b>ID: 289</b>	<b>HYBRID RENEWABLE AND STORAGE SOLUTIONS FOR EFFICIENT PUBLIC BUILDING ENERGY MANAGEMENT</b> Mia Lešić Aganović, Elektroprijenos BiH a.d. Banja Luka, Bosnia and Herzegovina Šejla Aganović-Hajdin, International BURCH University Jasna Hivziefendić, International BURCH University Tatjana Konjić, Faculty of Electrical Engineering, University of Tuzla Lejla Vuić, International BURCH University
	<b>ID: 291</b>	<b>PRESENTATION OF MODELS OF VALVE-REGULATED LEAD-ACID BATTERIES AND MODEL SIMULATION COMPARED TO THE ACTUAL BATTERY BEHAVIOUR</b> Goran Kujundžić, JP HT d.d. Mostar, Bosnia and Herzegovina Alen Bernadić, Elektroprijenos BiH, Bosnia and Herzegovina
	<b>ID: 298</b>	<b>THE CONTRIBUTION OF THE ELECTRIC INDUSTRY TO THE GREEN ENERGY TRANSITION AND ENHANCING THE RESILIENCE OF POWER GRID</b> Miroslav Mesić, Stručni Nadzor d.o.o., Croatia Ivan Tomšić, KONČAR Inc., Croatia Vlatka Kamenić Jagodić, KONČAR Inc., Croatia
	<b>ID: 304</b>	<b>ANALYSIS OF THE JUSTIFICATION FOR THE CONSTRUCTION OF A PHOTOVOLTAIC POWER PLANT WITH A TOTAL INSTALLED CAPACITY OF 52.7 KWP</b> Goran Nikčević, CEDIS DOO PODGORICA, Montenegro
	<b>ID: 329</b>	<b>ASSESSING VARIABLE RENEWABLE ENERGY INTEGRATION CAPABILITIES IN A SEMIISOLATED SYSTEM</b> Giorgi Erikashvili, Georgian State Electrosystem, Georgia Archil Kokhtashvili, Georgian State Electrosystem, Georgia David Tkeshelashvili, Georgian State Electrosystem, Georgia Giorgi Gogia, Georgian State Electrosystem, Georgia
	<b>ID: 332</b>	<b>THE VOLTAGE REGULATION OF POWER SYSTEMS USING STATCOM AND BATTERY ENERGY STORAGE SYSTEM: A SIMULATION STUDY</b> Hamza Feza CARLAK, Department of Electrical and Electronics Engineering, Akdeniz University Ergin Kayar, Department of Electrical and Electronics Engineering, Akdeniz University; 2: Department of Western Mediterranean Load Dispatch Directory, Turkish Electricity Transmission Corporation (TEİAŞ)
	<b>ID: 342</b>	<b>DETERMINING OPTIMAL BATTERY ENERGY STORAGE SYSTEM SIZE FOR WIND FARMS IN GEORGIAN POWER SYSTEM</b> David Tkeshelashvili, Georgian State Electrosystem, Georgia Ivane Mtchedlishvili, Georgian State Electrosystem, Georgia Irakli Gordiashvili, Georgian State Electrosystem, Georgia Archil Kokhtashvili, Georgian State Electrosystem, Georgia



<b>ORAL PRESENTATION</b>	<b>ID: 350</b>	<b>INNOVATIVE SOLUTIONS TO INCREASE OPERATIONAL RESILIENCE WITH EU FUNDED SMART GRID PROJECTS</b> Ana Belščak-Cvitanović, EIHP, Croatia Goran Majstrović, EIHP, Croatia
	<b>ID: 360</b>	<b>THE IMPACT OF EUROPE'S LARGEST SOLAR POWER PLANT ON VOLTAGE</b> FATİH SELİM PORTAKALCI, TEİAŞ - Turkey Electricity Transmission Company, Türkiye MURAT ARI, Çankırı Karatekin Üniversitesi, Türkiye SITTIK ÜNAL, TEİAŞ - Turkey Electricity Transmission Company, Türkiye MAHMUD ESAD YİĞİT, Çankırı Karatekin Üniversitesi, Türkiye İLYAS YILMAZ TEDAŞ - Türkiye Electricity Distribution Company, Türkiye
	<b>ID: 361</b>	<b>IMPORTANCE OF POWER MANAGEMENT SYSTEM (PMS) IN INDUSTRIAL FACILITIES WITH RENEWABLES</b> Hasan Basri CETINKAYA, SIEMENS A.S Istanbul, Türkiye Ugur ATALAYIN, SIEMENS A.S Istanbul, Türkiye Erdem ALTUNBAYRAK, SIEMENS A.S Istanbul, Türkiye
	<b>ID: 365</b>	<b>CONNECTING THE PHOTOVOLTAIC POWER PLANT TO THE 110 KV TRANSMISSION NETWORK AND ITS IMPACT ON THE POWER SYSTEM</b> Sead Arnautalić, Elektroprenos BiH, Bosnia and Herzegovina Ebedija Hajder Mujčinagić, Elektroprenos BiH, Bosnia and Herzegovina
	<b>ID: 368</b>	<b>SOLAR POWER POTENTIAL IN KOSOVO: A PATHWAY TO SUSTAINABLE ENERGY</b> Alush Mexhuani, KEDS, Kosovo Bujar Jupaj, KEDS, Kosovo Avni Alidemaj, KEDS, Kosovo
	<b>ID: 369</b>	<b>EXPERIENCE IN RECONDUCTORING OF 110 KV AND 220 KV TRANSMISSION LINES IN CROATIA WITH USING THE ACCC® CONDUCTORS</b> Boris Kaurlo, Elektro Merkur d.o.o., Croatia Sanja Vinter, Dalekovod Projekt d.o.o., Croatia Dragutin Mihalić, Energovod d.o.o., Croatia
	<b>ID: 384</b>	<b>OPTIMIZING HYDROPOWER MANAGEMENT IN GEORGIA FOR SYSTEM BALANCING AND DECARBONIZATION</b> Pikria ELIZARASHVILI, Georgian State Electrosystem, Georgia Tamar JIKIA, Georgian State Electrosystem, Georgia
	<b>ID: 386</b>	<b>ENERGY EFFICIENCY IN HPP ON THE RIVER NERETVA</b> Edina Hakalović Bubalo, JP Elektroprivreda BiH, Bosnia and Herzegovina Vanja Glavan, JP Elektroprivreda BiH, Bosnia and Herzegovina Adis Bubalo, JP Elektroprivreda BiH, Bosnia and Herzegovina
	<b>ID: 395</b>	<b>DIGITALIZATION CHALLENGES FOR HYDROPOWER PLANTS – INSIGHTS FROM A DRINKING WATER RECOVERY EXAMPLE</b> Mehmet Akif Bütüner, TUBITAK MRC Energy Technologies, Türkiye Doğan Gezer, TUBITAK MRC Energy Technologies, Türkiye Surya Teja Kandukuri, NORCE, Norwegian Research Centre AS, Norway Rune Schlanbusch, NORCE, Norwegian Research Centre AS, Norway Lars Kristian Vognild, NORCE, Norwegian Research Centre AS, Norway
	<b>ID: 401</b>	<b>FLEXIBILITY OF THE DINARA ENERGY SYSTEM IN CONDITIONS OF UNCERTAINTY, CROSS-BORDER TRADING AND PLANNED/PREDICTIVE PLANT MAINTENANCE</b> Zoran Tabak, FSRE Mostar, Bosnia and Herzegovina

ORAL PRESENTATION	<b>ID: 405</b>	<b>ESTIMATING TOTAL PV PRODUCTION IN AN ISOLATED MICROGRID: OPTIMAL SAMPLE SELECTION AND ESTIMATION ALGORITHM</b> Charalampos Pappas, Hellenic Electricity Distribution Network Operator S.A., Greece Stefanos Kokkinelis, Hellenic Electricity Distribution Network Operator S.A., Greece Despina Koukoula, Hellenic Electricity Distribution Network Operator S.A., Greece
	<b>ID: 410</b>	<b>INCREASING ENERGY EFFICIENCY OF EXISTING FACILITIES AND INCREASING RENEWABLE ENERGY CAPACITIES</b> Aslı Başçoban, Aydın Law, Türkiye
	<b>ID: 415</b>	<b>APPROACH OF IMPROVED DYNAMIC LINE RATING USING SENSORS ON OVERHEAD TRANSMISSION LINES</b> Julia Maier, Austrian Power Grid AG, Austria Klemens Reich, Austrian Power Grid AG, Austria Martin Waldhart, Austrian Power Grid AG, Austria Oskar Oberzaucher, Austrian Power Grid AG, Austria
POSTER PRESENTATION	<b>ID: 309</b>	<b>IMPLEMENTATION OF GUARANTEES OF ORIGIN (GO) CERTIFICATES FOR ADVANCING RENEWABLE ENERGY AND MARKET TRANSPARENCY</b> Onise Chichinadze, Georgian State Electrosystem, Georgia
	<b>ID: 312</b>	<b>METHOD FOR EVALUATING THE DEVIATION OF NODAL VOLTAGE IN THE CASE OF INSTANTANEOUS ACTIVE AND REACTIVE POWER IMBALANCE</b> David Japaridze, Georgian State Electrosystem, Georgia Lasha Matchavariani, Georgian State Electrosystem, Georgia
	<b>ID: 340</b>	<b>CHALLENGES OF RISK MANAGEMENT OF RENEWABLE ENERGY PROJECTS IN BOSNIA AND HERZEGOVINA</b> Hajrudin Džafo, JP ELEKTROPRIVREDA BIH dd. - Sarajevo, Bosnia and Herzegovina
	<b>ID: 379</b>	<b>PRESENTATION OF THE POSSIBILITIES FOR DATA MONITORING FROM ELECTRICITY METERS THROUGH A SCADA SYSTEM INSTALLED LOCALLY IN FACILITIES OF RENEWABLE ENERGY SOURCES</b> Azra Delalić, Elektroprenos BiH, Bosnia and Herzegovina Selma Muharemović, Elektroprenos BiH, Bosnia and Herzegovina
	<b>ID: 406</b>	<b>HARMONIC RESONANCE IN HV NETWORKS WITH RENEWABLE ENERGY INTEGRATION</b> Gvantsa Bardadze, Georgian State Electrosystem, Georgia Irakli Gordiashvili, Georgian State Electrosystem, Georgia
	<b>ID: 413</b>	<b>INTRODUCTION OF THE "ENERGY CUBUS" MODEL WITH THE AIM OF REMOVING ENERGY DISRUPTIONS TO THE DEVELOPMENT OF THE ENERGY SECTOR</b> Nejra Biber, CETEOR, Bosnia and Herzegovina Sajma Merdan, CETEOR, Bosnia and Herzegovina Aleksandar Knežević, Committee for EEO ANU BIH
	<b>ID: 420</b>	<b>DECARBONISATION ASSESSMENT AND PLAN FOR EPBIH POWER UTILITY</b> Anes Kazagić, JP Elektroprivreda BiH d.d. - Sarajevo, Bosnia and Herzegovina Nedim Turković, JP Elektroprivreda BiH d.d. - Sarajevo, Bosnia and Herzegovina
	<b>ID: 424</b>	<b>MEASURES TO ACHIEVE ENERGY SAVINGS IN THE TRANSMISSION NETWORK AND FOR INCREASED INTEGRATION OF RENEWABLE SOURCES</b> Saša Cazin, HOPS d.d., Croatia Damjan Medimorec, HOPS d.d., Croatia



## TOPIC 2

### NEW TECHNOLOGIES AND METHODOLOGIES FOR ACCELERATED DECARBONIZATION AND DIGITALIZATION OF ELECTRIC POWER SYSTEMS

ORAL PRESENTATION	<b>ID: 295</b>	<b>DIGITALIZATION OF ELECTRIC POWER SYSTEMS USING SUSTAINABLE, SMART SUBSTATIONS WITH CLOUD CONNECTIVITY</b> Bernd Schüpferling, Siemens AG, Germany Lejla Lukovac Dinsel, Siemens AG, Germany Krešimir Mujačić, Siemens d.d., Croatia
	<b>ID: 296</b>	<b>DATA ACCESSIBILITY AS A DRIVER FOR HV REMOTE ASSET MONITORING</b> Stephan Sehestedt, Hitachi Energy Germany AG, Germany Davide Rossato, Hitachi Energy, Italy Sebastiano Scarpaci, Hitachi Energy, Italy
	<b>ID: 297</b>	<b>ELECTRIC VEHICLES AS PARTICIPANTS IN THE FLEXIBILITY SYSTEM</b> Mia Previšić, Marin Majstorović, Ivan Šimović, Lucija Medić, Dragana Grabovac, JP „Elektroprivreda HZ HB“ d.d. Mostar, Bosnia and Herzegovina
	<b>ID: 310</b>	<b>USAGE OF MACHINE LEARNING FOR ELECTRICAL LOAD FORECASTING IN POWER SYSTEMS</b> Ana Bakuria, Georgian State Electrosystem, Georgia Guram Mirinashvili, Georgian State Electrosystem, Georgia Aleksandre Khitarisvhili, Georgian State Electrosystem, Georgia
	<b>ID: 311</b>	<b>DIGITEL SMART VISION: TRANSELECTRICA'S PILOT PROJECT UTILIZING AUGMENTED REALITY AND DIGITAL TWIN TECHNOLOGIES FOR SUBSTATION OPERATIONS AND WORKFORCE TRAINING</b> Bogdan Leu, Transelectrica, Romania Catalin Lisman, Transelectrica, Romania Laura Margarit, Transelectrica, Romania Alexandru Luca, Transelectrica, Romania Mihai Marcolt, Transelectrica, Romania
	<b>ID: 316</b>	<b>THE ROLE OF ARTIFICIAL INTELLIGENCE IN FORECASTING THE GENERATION OF RENEWABLE POWER PLANTS AND OPTIMIZING STORAGE CAPACITY</b> Guram Mirinashvili, Georgian State Electrosystem, Georgia Giorgi Eliashvili, Georgian State Electrosystem, Georgia Akaki Karseladze, Georgian State Electrosystem, Georgia Ana Bakuria, Georgian State Electrosystem, Georgia
	<b>ID: 337</b>	<b>SMALL MODULAR NUCLEAR REACTORS AND THEIR ROLE IN THE ENERGY TRANSITIONS</b> Emir Dizdarević, DRARNS, Bosnia and Herzegovina Zoran Drače, IAEA, Austria
	<b>ID: 339</b>	<b>AI-DRIVEN ANALYSIS FOR OPTIMIZING LARGE FLEET MANAGEMENT OF HIGH-VOLTAGE ASSETS USING SMART TOOLS</b> Filip Rzharov, POWER VIEW ORG, Republic of North Macedonia



<b>ORAL PRESENTATION</b>	<b>ID: 341</b>	<p><b>ANALYSIS OF THE ELECTROHYDROGEN GENERATOR (GEH2 TECHNOLOGY) AS AN ALTERNATIVE TO TRADITIONAL ELECTRIC VEHICLE CHARGING STATIONS</b></p> <p>Josip Srdanović, HEP ODS, Croatia  Eduard Škec, HEP ODS, Croatia  Ante Čović, HEP ODS, Croatia  Ivana Puljić, HOPS, Croatia  Zoran Kovač, HOPS, Croatia</p>
	<b>ID: 351</b>	<p><b>ENERGY COMMUNITIES: OVERVIEW AND PERSPECTIVES</b></p> <p>Eldar Hukić, Regulatory Commission for Energy in FB&amp;H, Bosnia and Herzegovina  Matej Zajc, University of Ljubljana, Faculty of Electrical Engineering  Nermin Suljanović, University of Tuzla, Faculty of Electrical Engineering, Elektroinštitut Milan Vidmar, Ljubljana</p>
	<b>ID: 355</b>	<p><b>OPTIMIZATION OF PHASOR DATA CONCENTRATOR (PDC) PLACEMENT AND COMMUNICATION INFRASTRUCTURE IN POWER SYSTEMS FOR COST-EFFECTIVE MANAGEMENT</b></p> <p>VLADIMIR BECEJAC, JSC EMS, Serbia, Faculty of Mechanical Engineering, University of Belgrade  ALEKSANDRA GRUJIC, Academy of Technical and Art Applied Studies: School of Electrical and Computer Engineering  DARKO SOSIC, School of Electrical Engineering, University of Belgrade  PREDRAG STEFANOV School of Electrical Engineering, University of Belgrade</p>
	<b>ID: 357</b>	<p><b>THE SOLAR POWER GENERATION FORECAST METHODOLOGY FOR SECURE SYSTEM OPERATION WITH HIGHLY DISTRIBUTED POWER GENERATION</b></p> <p>Yusuf Yanık, TÜBİTAK MAM, Türkiye  Sinan Eren, TÜBİTAK MAM, Türkiye  Melih Bilgen, TÜBİTAK MAM, Türkiye  Utku Yılmaz, TEİAŞ, Türkiye</p>
	<b>ID: 359</b>	<p><b>LEVERAGING LARGE LANGUAGE MODELS FOR ANALYSIS AND CONTROL OF POWER TRANSMISSION NETWORKS: CASE STUDIES WITH THE LLAMA3 LLM MODEL AND PANDAPOWER</b></p> <p>Alen Bernadić, Elektroprijenos BiH/ FSRE Mostar, Bosnia and Herzegovina</p>
	<b>ID: 366</b>	<p><b>Bidirectional Charging: Unlocking the Potential of Vehicle-to-Grid (V2G) Technology in Kosovo</b></p> <p>Fatbardha Mehani, Kosovo Distribution Electricity Company - KEDS, Kosovo  Arta Grajçevci, Kosovo Distribution Electricity Company - KEDS, Kosovo</p>
	<b>ID: 378</b>	<p><b>TECHNOLOGICAL AND FLEXIBLE SOLUTIONS FOR THE CONNECTIONS OF RENEWABLE ENERGY PRODUCTION PLANTS</b></p> <p>Stefano Actis Poldo, Terna, Italy  Emiliano Casale, Terna, Italy  Emanuele Cardile, Terna, Italy  Daniele Difino, Terna, Italy  Michele Pedicino, Terna, Italy  Stefano Ricci, Terna, Italy  Simone Sacco, Terna, Italy  Andrea Valant, Terna, Italy</p>



ORAL PRESENTATION	ID: 397	<p><b>A DATA-DRIVEN APPROACH FOR DYNAMIC THERMAL RATING SENSOR OPTIMAL PLACEMENT IN POWER TRANSMISSION GRIDS</b>            Giorgio Maria Giannuzzi, Terna Rete Italia SpA, Italy            Cosimo Pisani, Terna Rete Italia SpA, Italy            Andrea Pomarico, Politecnico di Milano, Italy            Carmine Bruno, Terna Rete Italia SpA, Italy            Sara Cristiano, Terna Rete Italia SpA, Italy            Giovanni Massa, Terna Rete Italia SpA, Italy            Guido Coletta, Terna Rete Italia SpA, Italy            Silverio Casulli, Terna Rete Italia SpA, Italy            Alberto Berizzi, Politecnico di Milano, Italy</p>
	ID: 408	<p><b>SURVIVAL CURVES, RISKS AND ASSET MANAGEMENT: CONCEPT VALIDATION AND KEY TAKEAWAYS</b>            Mitja Antončič, ELES, d.o.o., Slovenia            Jošt Osolin, ELES, d.o.o., Slovenia            Miha Bečan, ELES, d.o.o., Slovenia            dr. Uroš Kerin, ELES, d.o.o., Slovenia</p>
	ID: 414	<p><b>OPPORTUNITIES AND CHALLENGES TOWARDS A FURTHER DEPLOYMENT OF FACTS AND HVDC TECHNOLOGIES IN THE EUROPEAN TRANSMISSION SYSTEM CONTEXT</b>            Angelo L'Abbate, RSE SpA, Italy            Massimo Marzinotto, Terna SpA, Italy            Francesco Palone, Terna SpA, Italy            Francesco Calabrese, Terna SpA, Italy</p>
	ID: 423	<p><b>HOW TO BUILD, OPERATE AND MAINTAIN HVDC CONVERTER STATIONS WITH SUSTAINABILITY IN MIND</b>            Arman Derviskadić, Hitachi Energy, Italy            Madeleine Stolpe, Hitachi Energy, Italy            Fabiana Grasso Brigato, Terna, Italy            Anita Liparoto, Terna, Italy            Michele De Nigris, RSE, Italy            Pierpaolo Girardi, RSE, Italy            Marco Balzoni, Terna, Italy</p>
	ID: 425	<p><b>LIFE CYCLE ASSESSMENT OF PHOTOVOLTAIC PANELS: A CRADLE-TO-GRAVE ANALYSIS</b>            Ajla Merzić, BH K CIGRE            Seyed Ebrahimi, Trio, United Kingdom</p>
POSTER PRESENTATION	ID: 294	<p><b>TOWARDS DECARBONIZATION OF GEORGIAN ELECTRICITY SECTOR</b>            Nino Lazashvili, Georgian State Electrosystem, Georgia            Giorgi Amuzashvili, Georgian State Electrosystem, Georgia</p>
	ID: 306	<p><b>LEARNING-BASED FINE-GRAINED ROOT CAUSE CLASSIFICATION FOR POWER SYSTEM EVENTS</b>            Umut Güvengirli, TÜBİTAK Marmara Research Center, Ankara, Türkiye            Dilek Küçük, TÜBİTAK Marmara Research Center, Ankara, Türkiye            Mahmut Keleş, Turkish Electricity Transmission Corp. (TEİAŞ), Ankara, Türkiye</p>



<b>POSTER PRESENTATION</b>	<b>ID: 314</b>	<b>420 KV RETROFILL: FROM GAS-INSULATED LINES TO GAS-INSULATED SWITCHGEAR ADDRESSING THE HIGH-VOLTAGE SWITCHGEAR INSTALLED BASE DECARBONISATION</b> Dennis Christen, Hitachi Energy Ltd, Switzerland Teresa Jorge, Hitachi Energy Ltd, Switzerland Freddy von Arx, Hitachi Energy Ltd, Switzerland Samuel Pachlatko, Hitachi Energy Ltd, Switzerland Francesco Agostini, Hitachi Energy Ltd, Switzerland
	<b>ID: 333</b>	<b>DYNAMICS OF MICROGRID WITH PV PLANT ON LAKE SNIJEŽNICA</b> Nejra Čučuković, International Burch University, Bosnia and Herzegovina Adnan Bosović, JP Elektroprivreda BiH d.d. – Sarajevo, Bosnia and Herzegovina Mustafa Musić, International Burch University, Bosnia and Herzegovina
	<b>ID: 356</b>	<b>SIGNIFICANCE, ROLE AND FUTURE OF ENERGY COMMUNITIES</b> Senad Salkić, JP Elektroprivreda BiH d.d. Sarajevo, Bosnia and Herzegovina
	<b>ID: 367</b>	<b>DEFINING FAULT RIDE-THROUGH CURVES FOR BESS INTEGRATION IN TURKISH TRANSMISSION GRID</b> Sehri Nur Guler, Turkish Electricity Transmission Corporation (TEIAS), Turkiye and Ankara Yildirim Beyazit University Umit Cetinkaya, Turkish Electricity Transmission Corporation (TEIAS), Turkiye Kamil Cagatay Bayindir, Ankara Yildirim Beyazit University
	<b>ID: 377</b>	<b>ARTIFICIAL NEURAL NETWORKS-BASED ANALYSIS OF MULTI-CIRCUIT OVERHEAD TRANSMISSION LINES ZONE OF INFLUENCE FROM THE ASPECT OF EXTREMELY LOW FREQUENCY MAGNETIC FIELDS</b> Ajdin Alihodžić, University of Sarajevo, Bosnia and Herzegovina Adnan Mujezinović, University of Sarajevo, Bosnia and Herzegovina Emir Turajlić, University of Sarajevo, Bosnia and Herzegovina Maja Grbić, Nikola Tesla Institute of Electrical Engineering, Serbia Aleksandar Pavlović, Nikola Tesla Institute of Electrical Engineering, Serbia
	<b>ID: 388</b>	<b>ADVANCED WORK AND ASSET MANAGEMENT PROGRAMME SUPPORTING DIGITALIZATION AND ENHANCED RELIABILITY IN GEORGIAN TRANSMISSION SYSTEM</b> Ani ANIASHVILI, Georgian State Electrosystem, Georgia Pikria ELIZARASHVILI, Georgian State Electrosystem, Georgia
	<b>ID: 409</b>	<b>A SURVEY ON GRID CONNECTION AND INTEGRATION OF OFFSHORE WIND ENERGY: TRENDS AND CHALLENGES</b> Charalampos N. PITAS, IPTO, Greece Yannis MANTZARIS, IPTO, Greece Vasileios BANOS, IPTO, Greece Konstantinos TSIREKIS, IPTO, Greece
	<b>ID: 412</b>	<b>OVERVIEW OF INFORMATION AND COMMUNICATION REQUIREMENTS FOR LOCAL FLEXIBILITY MARKETS</b> Ajla Mehinović, JP Elektroprivreda BiH d.d. - Sarajevo, Bosnia and Herzegovina Nerdina Mehinović, Faculty of Electrical Engineering, University of Tuzla Nermin Suljanović, Faculty of Electrical Engineering, University of Tuzla Elektroinštitut Milan Vidmar Matej Zajc, Faculty of Electrical Engineering, University of Ljubljana



### TOPIC 3

#### DEVELOPMENT OF ELECTRICITY MARKET BALANCING AND DYNAMIC REGULATION

<b>ORAL PRESENTATION</b>	<b>ID: 290</b>	<b>THE RISKS OF ELECTRICITY BALANCING</b> Omer Hadžić, NOSBiH, Bosnia and Herzegovina
	<b>ID: 292</b>	<b>STORAGE TECHNOLOGIES FOR A BALANCED AND RESILIENT GEORGIAN GRID: INNOVATIONS AND IMPACTS</b> Giorgi Khorbaladze, GSE, Georgia Zviad Gachechiladze, GSE, Georgia Mikheil Odisharia, GSE, Georgia Gocha Kokhreidze, GSE, Georgia
	<b>ID: 300</b>	<b>TEN YEARS OF COORDINATED CROSS-BORDER CAPACITY ALLOCATION IN SOUTH EAST EUROPE: ACHIEVEMENTS AND PERSPECTIVES</b> Filip Mišurović, Coordinated Auction Office in South East Europe, Montenegro Filip Marković, Coordinated Auction Office in South East Europe, Montenegro
	<b>ID: 313</b>	<b>DEVELOPMENT OF THE ELECTRICITY MARKET BALANCING AND DYNAMIC REGULATION</b> GÜRBÜZ, Hayriye; TEIAS, TR METİN, Serhat; TEIAS, TR KARA, H.Mehmet, TEIAS, TR
	<b>ID: 323</b>	<b>UNLOCKING LOW-VOLTAGE NETWORKS FLEXIBILITY: SLOVENIAN DEMO USE CASE (DN-FLEX)</b> Klemen Knez, University of Ljubljana, Faculty of Electrical Engineering, Slovenia Boštjan Blažič, University of Ljubljana, Faculty of Electrical Engineering, Slovenia
	<b>ID: 324</b>	<b>BLACK SEA SUBMARINE CABLE EFFECT ON ELECTRICITY MARKETS</b> Mikheil Odisharia, Georgian State Electrosystem, Georgia Giorgi Khorbaladze, Georgian State Electrosystem, Georgia Omar Burdiahvili, Georgian State Electrosystem, Georgia Giorgi Vakhtangadze, Georgian State Electrosystem, Georgia
	<b>ID: 345</b>	<b>PROSPECTS FOR GRID-SCALE ENERGY STORAGE SYSTEMS</b> Zejneba Topalović, JP Elektroprivreda BiH d.d.- Sarajevo, Bosnia and Herzegovina
	<b>ID: 358</b>	<b>BATTERY ENERGY STORAGE AND ELECTRICITY MARKETS: BEST PRACTICES FROM EUROPEAN TSOS AND CHALLENGES FOR IMPLEMENTATION IN OUR REGION</b> Krešimir Šušnić, Croatian Transmission System Operator Plc., Croatia Goran Levačić, Croatian Transmission System Operator Plc., Croatia



ORAL PRESENTATION	ID: 362	<p><b>OPERATIONAL MEASURES BASED ON ELECTRICAL DISTANCE MATRIX APPROACH FOR MITIGATING TRANSMISSION AND DISTRIBUTION LINE OVERLOADING</b></p> <p>Metodija Atanasovski, Faculty of Technical Sciences Bitola, University St. Kliment Ohridski Bitola, Republic of North Macedonia Goran Veljanovski, Faculty of Technical Sciences Bitola, University St. Kliment Ohridski Bitola, Republic of North Macedonia Pande Popovski, Faculty of Technical Sciences Bitola, University St. Kliment Ohridski Bitola, Republic of North Macedonia Aleksandra Krkoleva Matevska, Faculty of Electrical Engineering and IT, Skopje, Republic of North Macedonia Petar Krstevski, Faculty of Electrical Engineering and IT, Skopje, Republic of North Macedonia</p>
	ID: 387	<p><b>TECHNO-ECONOMIC AND REGULATORY ANALYSIS OF THE APOLLO-LINK HVDC INTERCONNECTOR</b></p> <p>Wolfgang Hribernik, Europa-Link Development GmbH, Austria Sabine Silke Landwehr, Hochschule Mainz, Austria Lutz Landwehr, Europa-Link Development GmbH, Austria Soeren Bertsch, Omnia GmbH, Austria Gilbert Guntschnig, Omnia GmbH, Austria Andreas Pointvogel, Omnia GmbH, Austria</p>
	ID: 389	<p><b>PUMPING MODE OF OPERATION OF REVERSIBLE HYDROELECTRIC POWER PLANT IN THE REPUBLIC OF CROATIA IN 2023.</b></p> <p>Petar Ribraić, HEP Trgovina, Croatia Davor Bošnjak, HEP Trgovina, Croatia</p>
	ID: 398	<p><b>IMBALANCE COST MONITORING OF THE BALANCE RESPONSIBLE PARTIES - CROATIAN CASE</b></p> <p>Mario Mužek, HOPS - Croatian Transmission System Operator Plc., Croatia Matija Jembrih, HOPS - Croatian Transmission System Operator Plc., Croatia Ana Strugar, HOPS - Croatian Transmission System Operator Plc., Croatia Domagoj Lucić, HOPS - Croatian Transmission System Operator Plc., Croatia Mario Sekulić, HOPS - Croatian Transmission System Operator Plc., Croatia Antun Andrić, HOPS - Croatian Transmission System Operator Plc., Croatia</p>
	ID: 399	<p><b>REGIONAL POTENTIALS FOR PARTICIPATION IN EU BALANCING PROJECTS</b></p> <p>Karlo Koščak, HOPS, Croatia Antun Andrić, HOPS, Croatia Tonči Tadin, HOPS, Croatia</p>
	ID: 419	<p><b>OPTIMIZED DISPATCHING OF FREQUENCY CONTAINMENT RESERVE BETWEEN UNITS</b></p> <p>Krešimir Vrdoljak, KONČAR - Digital Ltd., Croatia Roberto Čiž, KONČAR - Digital Ltd., Croatia Krunoslav Horvat, KONČAR Inc., Croatia Tomislav Robina, HEP-Proizvodnja Ltd., Croatia Nenad Švarc, HEP-Proizvodnja Ltd., Croatia Darko Nemeč, Energy Institute Inc., Croatia</p>





## TOPIC 4

### RESILIENCE ISSUES ON THE ELECTRIC POWER SYSTEMS

<b>ORAL PRESENTATION</b>	<b>ID: 308</b>	<p><b>ELECTRIC POWER SYSTEM SECURITY AND RESILIENCE AGAINST CYBER THREATS</b></p> <p>Marcel ELLENBOGEN, IEC, Israel Barak DAVIDOVICH, IEC, Israel</p>
	<b>ID: 317</b>	<p><b>MONITORING TOWERS AND CONDUCTORS IN THE FRAMEWORK OF EU PROJECT FARCROSS TO SUPPORT RESILIENCE ISSUES OF OVERHEAD LINE</b></p> <p>Viktor LOVRENČIĆ, C&amp;G d.o.o. Ljubljana, Slovenia Nenad GUBELJAK, University of Maribor, Faculty of Mechanical Engineering, Slovenia Bálint NÉMETH, BME Budapest, Hungary Levente RACZ, BME Budapest, Hungary Klemens REICH, APG, Austrian Power Grid AG, Austria Krešimir MESIĆ, HOPS, Hrvatski operator prijenosnog sustava d.d., Croatia Konstantinos PLAKAS, IPTO, Independent power transmission operator S.A., Greece Konstantinos F. KROMMYDAS, IPTO, Independent power transmission operator S.A., Greece Ana LOVRENČIĆ, C&amp;G d.o.o. Ljubljana, Slovenia</p>
	<b>ID: 318</b>	<p><b>NEW PRECAUTIONARY STUDIES AND RESULTS FOR REDUCING BIRD CAUSED FAULTS IN OVER HEAD LINES</b></p> <p>Muhammet Furkan YILMAZ, Turkish Electricity Transmission Corporation, Turkiye Ali ÖZTÜRK, Duzce University, Turkiye Murathan YENİCELLİ, Turkish Electricity Transmission Corporation, Turkiye Mustafa IŞIK, Turkish Electricity Transmission Corporation, Turkiye</p>
	<b>ID: 325</b>	<p><b>GRID INCIDENT IN SOUTH-EAST EUROPEON ON 21 JUNE 2024</b></p> <p>Danko Blažević, HOPS, Croatia</p>
	<b>ID: 326</b>	<p><b>RESILIENCE AS A MEANS FOR COPING WITH CLIMATE CHANGE IN ELECTRIC UTILITIES</b></p> <p>Admir Softić, Faculty of Mining, Geology and Civil Engineering, UNTZ; Dragan Komljenović, Research Institute, Hydro-Québec, IREQ, Canada Ognjen Marković, ReSET Center Sarajevo Almir Imamović, DERK, Bosnia and Herzegovina Anes Kazagić, JP Elektroprivreda BiH d.d.- Sarajevo, Bosnia and Herzegovina Mustafa Musić, Faculty of Electrical Engineering, UNSA Emira Kozarević, Faculty of Economics, UNTZ Mirza Kušljugić, Faculty of Electrical Engineering, UNTZ Hasan Avdić, Faculty of Mechanical Engineering, UNTZ Dinko Marić, JP Elektroprivreda HZHB d.d.- Mostar, Bosnia and Herzegovina Adis Bubalo, JP Elektroprivreda BiH d.d.- Sarajevo, HE na Neretvi, Bosnia and Herzegovina</p>



<b>ORAL PRESENTATION</b>	<b>ID: 327</b>	<p><b>ENHANCED DETECTION AND MONITORING OF UNAUTHORIZED ACTIVITIES IN HIGH-VOLTAGE POWER GRIDS USING DISTRIBUTED ACOUSTIC SENSING (DAS) IN TURKISH TRANSMISSION GRID</b></p> <p>Faruk Uyar, Bilkent University, Nanotechnology Research Center (NANOTAM), Ankara, Türkiye                  Barış İyidir, Bilkent University, Nanotechnology Research Center (NANOTAM), Ankara, Türkiye                  Ümit Aktaş, Turkish Electricity Transmission Corporation (TEIAS), Ankara, Türkiye                  Mete Uzar, Turkish Electricity Transmission Corporation (TEIAS), Ankara, Türkiye                  Ceyhun Cengiz, Turkish Electricity Transmission Corporation (TEIAS), Ankara, Türkiye                  Ekmele Özbay, Bilkent University, Nanotechnology Research Center (NANOTAM), Ankara, Türkiye</p>
	<b>ID: 331</b>	<p><b>STRATEGIES FOR ENHANCING POWER SYSTEM RESILIENCE TO CLIMATE CHANGE</b></p> <p>Gordana Srdanović, Energoinvest, Bosnia and Herzegovina                  Milica Tadić, Energoinvest, Bosnia and Herzegovina                  Josip Cenčić, Energoinvest, Bosnia and Herzegovina                  Sarah Ganović, Energoinvest, Bosnia and Herzegovina</p>
	<b>ID: 335</b>	<p><b>IMPACT OF RENEWABLE ENERGY SOURCES ON IMPROVING POWER SYSTEM RESILIENCE</b></p> <p>Šeila Gruhonjić Ferhatbegović, JP Elektroprivreda BiH d.d.- Sarajevo, Bosnia and Herzegovina                  Sead Arnautalić, Elektroprenos B&amp;H, Banja Luka, Bosnia and Herzegovina                  Zijad Bajramović, JP Elektroprivreda BiH d.d.- Sarajevo, Bosnia and Herzegovina</p>
	<b>ID: 343</b>	<p><b>EXPERIENCES WITH CONDUCTOR INSPECTION ASSESSMENT WITH ROBOTIC TECHNOLOGY IN SLOVENIA AND SERBIA</b></p> <p>Ana Lovrenčić, C&amp;G d.o.o. Ljubljana, Slovenia                  Zoran PETROVIĆ, AD Elektromreža Srbije, Serbia                  Miha BEČAN, ELES, d.o.o., Slovenia                  Vlastimir TASIĆ, PD Elektroistok Izgradnja Beograd, d.o.o., Serbia                  Stefan JOVANOVIĆ, PD Elektroistok Izgradnja Beograd, d.o.o., Serbia                  Viktor LOVRENČIĆ, C&amp;G d.o.o. Ljubljana, Slovenia</p>
	<b>ID: 353</b>	<p><b>COMPUTING THE FAILURE RETURN PERIODS OF OVERHEAD LINE TOWERS DUE TO EROSION PHENOMENA</b></p> <p>Erico, Maria Carlili, Terna SpA, Italy                  Alessandro Lazzarini, Terna SpA, Italy                  Federico Falorni, Terna SpA, Italy                  Giuseppe Berrettoni, Terna SpA, Italy                  Francesca Scavo, Terna SpA, Italy                  Emanuele Ciapessoni, RSE SpA, Italy                  Cirio Diego, RSE SpA, Italy                  Andrea Pitto, RSE SpA, Italy                  Leonardo Mancusi, RSE SpA, Italy</p>





<b>ORAL PRESENTATION</b>	<b>ID: 381</b>	<p><b>DEVELOPMENT OF THE CYBERSECURITY IN BOSNIA AND HERZEGOVINA – STATE LEVEL: CURRENT STATUS AND THE WAY FORWARD</b></p> <p>Amra Omeragić, Elektroprenos - Elektroprijenos BiH, Bosnia and Herzegovina          Saša Mrdović, Faculty of Electrical Engineering, University of Sarajevo, Bosnia and Herzegovina          Edin Zametica, State Electricity Regulatory Commission, Bosnia and Herzegovina</p>
	<b>ID: 382</b>	<p><b>AUTOMATIC OVER-FREQUENCY CONTROL SCHEME IMPLEMENTATION</b></p> <p>Srdan Subotić, Elektromreža Srbije, Serbia          Nemanja Vukojičić, Elektromreža Srbije, Serbia          Milan Josifović, Institut Mihajlo Pupin, Serbia</p>
	<b>ID: 385</b>	<p><b>IMPACT OF FLOODS ON THE NERETVA BASIN 03/04.10.2024. YEAR ON THE OPERATION OF HPP ON THE NERETVA AND THE ROLE OF HPP IN FLOOD PROTECTION</b></p> <p>Adis Bubalo, JP Elektroprivreda BiH, Bosnia and Herzegovina          Edina Hakalović Bubalo, JP Elektroprivreda BiH, Bosnia and Herzegovina          Vanja Glavan, JP Elektroprivreda BiH, Bosnia and Herzegovina          Ajla Mulaomerović-Šeta, University of Sarajevo – Faculty of Civil Engineering</p>
	<b>ID: 390</b>	<p><b>IMPACT OF CLIMATE CHANGE ON OVERHEAD TRANSMISSION LINES IN CROATIA</b></p> <p>Goran Levačić, Croatian Transmission System Operator Plc., Croatia          Krešimir Mesić, Croatian Transmission System Operator Plc., Croatia          Filip Grebenar, Croatian Transmission System Operator Plc., Croatia          Igor Ivanković, Croatian Transmission System Operator Plc., Croatia</p>
	<b>ID: 393</b>	<p><b>RESTORATION OF POWER SYSTEM BIH AFTER BLACKOUT</b></p> <p>Adnan Muharemović, NOSBiH, Bosnia and Herzegovina          Bojan Rebić, NOSBiH, Bosnia and Herzegovina</p>
	<b>ID: 394</b>	<p><b>POWER SYSTEM OPERATION MANAGEMENT CHALLENGES CAUSED BY HIGH-VOLTAGE IN THE SOUTH-EASTERN EUROPEAN REGION</b></p> <p>Samo Gašperič, ELES d.o.o., Slovenia          Andrej Vrbinc, ELES d.o.o., Slovenia          Tomaž Tomšič, ELES d.o.o., Slovenia          Franc Kropec, ELES d.o.o., Slovenia          Marijan Borić, HOPS Plc., Croatia          Zvonimir Brleković, HOPS Plc., Croatia          Zoran Bunčec, HOPS Plc., Croatia          Tomislav Vuković, HOPS Plc., Croatia</p>
	<b>ID: 400</b>	<p><b>VEGETATION MANAGEMENT IN POWER LINE ROUTES</b></p> <p>Roman Tomažič, ELES d.o.o., Slovenia          Boris Zupanc, ELES d.o.o., Slovenia          Denis Kozjek, ELES d.o.o., Slovenia</p>



ORAL PRESENTATION	ID: 402	<p><b>THREE-PHASE BANK SHUNT REACTOR WITH SPARE FOURTH PHASE READY FOR ENERGIZATION A NEW SOLUTION FOR A RESILIENT GRID</b></p> <p>Andrea Valant, Terna, Italy  Emanuele Cardile, Terna, Italy  Enrico Rotolo, Terna, Italy  Francesco Palone, Terna, Italy  Giuliano Campopiano, Terna, Italy  Simona Mandosi, Terna, Italy  Stefano Ricci, Terna, Italy  Simone Sacco, Terna, Italy  Marco Bonifacio, Tamini Trasformatori, Italy  Alessandro Predolini, Tamini Trasformatori, Italy</p>
	ID:403	<p><b>LIGHTNING LOCATION SYSTEM DATA VARIABILITY: A TEST CASE ON THE ITALIAN TRANSMISSION GRID</b></p> <p>Mattia Boiani, Terna, Italy  Luca Buono, Terna, Italy  Francesco Calabrese, Terna, Italy  Marco Forteleoni, Terna, Italy  Massimo Marzinotto, Terna, Italy  Francesco Palone, Terna, Italy  Davide Rufini, Terna, Italy  Marina Bernardi, CESI spa, Italy</p>
	ID: 435	<p><b>PD ROBUSTNESS TEST FOR MORE RESILIENT MV CABLE JOINTS</b></p> <p>Massimo Pompili, University of Roma "La Sapienza", Italy  Luigi Calcara, University of Roma "La Sapienza", Italy</p>
POSTER PRESENTATION	ID: 302	<p><b>FINITE ELEMENT ANALYSIS OF A JUMPER CONDUCTOR SET USED IN POWER TRANSMISSION TOWERS UNDER WIND EFFECT</b></p> <p>Burak Talha Kılıç, Middle East Technical University, Türkiye  Eray Baran, Middle East Technical University, Türkiye  Mete Uzar, Turkish Electrical Transmission Corporation (TEİAŞ), Türkiye</p>
	ID: 305	<p><b>STRATEGIES FOR DSO'S TO MITIGATE THE IMPACTS OF EXTREME WEATHER EVENTS AND STRENGTHEN POWER SYSTEM RESILIENCE</b></p> <p>Marcel ELLENBOGEN, IEC, Israel  Sagit DOMINITZ, IEC, Israel</p>
	ID: 307	<p><b>STRATEGIES FOR ENHANCING OPERATIONAL RESILIENCE: KEEPING THE LIGHTS ON IN A CHANGING WORLD: A 360° APPROACH TO ELECTRICITY SECURITY</b></p> <p>Marcel ELLENBOGEN, IEC, Israel  Elad SHAVIV, IEC, Israel</p>
	ID: 315	<p><b>ENSURING RESILIENCE THROUGH THE USE OF EMERGENCY RESTORATION TOWERS – TEAM TRAINING</b></p> <p>Domen Oder, ELES d.o.o., Slovenia  Aleš Vrbovšek, ELES d.o.o., Slovenia  Igor Bratič, ELES d.o.o., Slovenia  Matjaž Kerkoč, ELES d.o.o., Slovenia  David Kališnik, Elektro Ljubljana d.d., Slovenia  Sašo Škorjanc, Elektro Maribor d.d., Slovenia  Ana Lovrenčič, C&amp;G d. o. o., Slovenia  Viktor Lovrenčič, C&amp;G d. o. o., Slovenia</p>



<b>POSTER PRESENTATION</b>	<b>ID: 334</b>	<p><b>POWER SYSTEM RECOVERY STRATEGY AFTER A MAJOR BLACKOUT</b>            Hamza Feza CARLAK, Department of Electrical and Electronics Engineering, Akdeniz University            Ergin Kayar, Department of Electrical and Electronics Engineering, Akdeniz University1, Department of Western Mediterranean Load Dispatch Directory, Turkish Electricity Transmission Corporation (TEİAŞ)</p>
	<b>ID: 336</b>	<p><b>ROLE OF AUTORECLOSERS IN ENHANCING DISTRIBUTION SYSTEM RESILIENCE</b>            Arton Aliu, KOSTT, Kosovo            Amir Hetemi, UNISOLAR, Kosovo            Nezir Neziri, KEDS, Kosovo</p>
	<b>ID: 348</b>	<p><b>TRAINING FOR OPERATING STAFF IN CONTROL CENTRES AS ONE KEY FACTOR FOR OPERATING RESILIENCE</b>            Jürgen Kreienkamp, DUtrain, Germany            Carsten Roggatz, DUtrain, Germany            Nils Koppelkamm, DUtrain, Germany</p>
	<b>ID: 354</b>	<p><b>INNOVATIONS AND IMPROVEMENTS IN THE MAINTENANCE AND CONSTRUCTION OF HIGH-VOLTAGE POWER LINES USING ERS (EMERGENCY RESTORATION SYSTEMS)</b>            Nada Curovic, EMS, Serbia            Maja Adamović, EMS, Serbia            Ivan Milanov, Elektroistok projektni biro, Serbia            Zoran Knežević, EMS, Serbia            Dusan Obradović, EMS, Serbia</p>
	<b>ID: 417</b>	<p><b>STRATEGIES FOR RESILIENT POWER DISTRIBUTION: OPTIMIZING TRANSFORMER TEST AND MAINTENANCE PRACTICES IN KOSOVO</b>            Arijanit Mavriqi, Kosovo Electricity and Distribution Company, Kosovo            Turan Kocabayraktar, Kosovo Electricity and Distribution Company, Kosovo            Drenusha Gashi, Kosovo Electricity and Distribution Company, Kosovo</p>



<b>SPECIAL SESSION</b>		
<b>FUNCTIONALITY OF POWER SYSTEMS AND EQUIPMENT</b>		
<b>POSTER PRESENTATION</b>  <b>04/06/2025</b> <b>13:00-14:00</b>	<b>ID: 286</b>	<b>EFFICIENT POWER SYSTEM EVENTS CLASSIFICATION FOR ROBUST AND RESILIENT TRANSMISSION</b> Adin Memić, University of Sarajevo Arman Ghaderi Baayeh, KU Leuven, Belgium Michael Kleemann, KU Leuven, Belgium
	<b>ID: 288</b>	<b>DISCUSSION OF DIFFERENT FORMULAS FOR THE SAME QUANTITIES WITHIN A CATENARY-BASED OVERHEAD LINE DESIGN IN INTERNATIONAL LITERATURE</b> Alen Hatibović, Individual entrepreneur, Hungary Tatjana Konjić, University of Tuzla Milenko Tomić, SERC BIH Martin Čalasan, University of Montenegro
	<b>ID: 293</b>	<b>UNDER FREQUENCY LOAD SHEDDING IN POWER SYSTEMS: A NOVEL APPROACH USING THE HILBERT-HUANG TRANSFORM (HHT) METHODOLOGY</b> Maja Muftić Dedović, CIGRE National Committee of Bosnia and Herzegovina, Bosnia and Herzegovina Samir Avdaković, CIGRE National Committee of Bosnia and Herzegovina, Bosnia and Herzegovina Zijad Bajramović, CIGRE National Committee of Bosnia and Herzegovina, Bosnia and Herzegovina Adin Memić, CIGRE National Committee of Bosnia and Herzegovina, Bosnia and Herzegovina
	<b>ID: 301</b>	<b>IMPROVEMENT OF LIGHTNING PROTECTION OF OVERHEAD LINES BY MEASUREMENTS OF LIGHTNING CURRENTS CIRCULATING THROUGH THE LINE SURGE ARRESTERS AND TRANSMISSION TOWERS</b> Selma GREBOVIĆ, Faculty of Electrical Engineering, University of Sarajevo, Bosnia and Herzegovina Ivo UGLEŠIĆ, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia Viktor MILARDIĆ, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia Silvia SINČIĆ, HOPS d.d., Croatia Alan ŽUPAN, HOPS d.d., Croatia Luka ČURIN, HOPS d.d., Croatia
	<b>ID: 319</b>	<b>DTS: AN INNOVATIVE SYNCHRONIZATION METHOD FOR SYNCHRONOUS CONDENSER WITH THE ELECTRICAL GRID</b> Domenico Tedeschi, Terna S.p.A., Italy Roberto Benato, Università di Padova, Italy Francesco Sanniti, Università di Padova, Italy Luca Rusalen, Università di Padova, Italy





<p><b>POSTER PRESENTATION</b></p> <p><b>04/06/2025</b> <b>13:00-14:00</b></p>	<p><b>ID: 320</b></p>	<p><b>A NEW FAMILY OF CONVERTER-TRANSFORMERS ALLOWING EASY DC FAULT-OPENING OPERATIONS</b> Mattia Amatruda, Terna S.p.A., Italy Vincenzo Agnetta, Terna S.p.A., Italy Francesco Castelli Dezza2, Politecnico di Milano, Italy Nicola Toscani2, Politecnico di Milano, Italy Matteo Benvenuti, Politecnico di Milano, Italy</p>
<p><b>POSTER PRESENTATION</b></p> <p><b>04/06/2025</b> <b>14:00-15:00</b></p>	<p><b>ID: 321</b></p>	<p><b>IMPLEMENTATION OF HIGH ACCURATE SENSOR AND DETERMINATION OF HARMONIC EMISSIONS</b> Aljaž Špelko, EIMV, Slovenia Jalen Štremfelj, EIMV, Slovenia Anže Zaletel, EIMV, Slovenia Simon Podkoritnik, EIMV, Slovenia Miran Horvat, Elektro Maribor, Slovenia Ciril Kafol, Elektro Gorenjska, Slovenia Mattewos Tefferi, G&amp;W Electric, USA</p>
	<p><b>ID: 322</b></p>	<p><b>OPERATIONAL FRAMEWORK FOR FAULT DETECTION IN POWER SYSTEMS</b> DINESH BABU KRISHTAPPA NAGALINGAM1, Megger, Germany LAKSHMANAN PAULRAJ, ESB International, Bahrain</p>
	<p><b>ID: 328</b></p>	<p><b>TRANSFORMING GEORGIA'S ENERGY SECTOR: PROGRESS TOWARD A SUSTAINABLE AND COMPETITIVE FUTURE</b> Mariam Gogvadze, JSC Georgian State Electro Systeam, Georgia</p>
	<p><b>ID: 330</b></p>	<p><b>THE USE OF SAMPLED VALUES FOR POWER TRANSFER ANALYSIS AT DISTRIBUTION LEVEL</b> Radu Cristian Opreanu, C.N.T.E.E. Transelectrica S.A., Romania Laura Mărgărit, C.N.T.E.E. Transelectrica S.A., Romania Radu Plămănescu, National University of Science and Technology POLITEHNICA of Bucharest, Romania</p>
	<p><b>ID: 338</b></p>	<p><b>BREAKER DUTY ANALYSIS IN GEORGIAN POWER SYSTEM</b> Vladimer Popkhadze, Georgian State Electrosystem, Georgia Temur Gakharia, Georgian State Electrosystem, Georgia David Rusishvili, Georgian State Electrosystem, Georgia</p>
	<p><b>ID: 346</b></p>	<p><b>MANAGEMENT RADIOACTIVE WASTE WITH AN OVERVIEW OF WHAT R CROATIA WANTS TO STORE OF AT TRGOVSKA GORA</b> Emir Dizdarević, DRARNS, Bosnia and Herzegovina Zoran Drače, IAEA, Austria, Retired</p>
<p><b>POSTER PRESENTATION</b></p> <p><b>04/06/2025</b> <b>16:30-17:30</b></p>	<p><b>ID: 347</b></p>	<p><b>COORDINATED LONG-TERM CAPACITY CALCULATION AND ALLOCATION IN A HIGHLY MESHED TRANSMISSION NETWORK OF THE CENTRAL EUROPE</b> Alexander Ebner, Austrian Power Grid, Austria Hans Hatz, Austrian Power Grid, Austria Milan Vukasović, Austrian Power Grid, Austria</p>
<p><b>ID: 349</b></p>	<p><b>DYNAMIC LINE RATING THROUGH EXTRAPOLATION AT NEARBY SPANS IN COMPARABLE ENVIRONMENTS: PREDICTING WIND WITH MACHINE LEARNING MODELS TRAINED ON LOCAL WIND MEASUREMENTS</b> Alexandre Baré, Ampacimon, Belgium</p>	



<b>POSTER PRESENTATION</b>  <b>04/06/2025</b> <b>16:30-17:30</b>	<b>ID: 352</b>	<b>NEW GENERATION CONTROL SYSTEM FOR MIXED HOLDING POWER UTILITY OF REPUBLIC OF SRPSKA DISPATCHING CENTER</b> Goran Jakupović, Milan Josifović, Nikola Jemuović, Nikola Jelić, Pavle Lučić, INSTITUT MIHAJLO PUPIN-AUTOMATION COMPANY FOR AUTOMATIC CONTROL OF PROCESSES AND SYSTEMS LTD BELGRADE, Serbia Simo Bošnjak, MIXED HOLDING POWER UTILITY OF REPUBLIC OF SRPSKA
	<b>ID: 431</b>	<b>TESTING OF SPEED GOVERNOR CONTROL SYSTEM OF THE UNIT</b> Givi Shovnadze, Georgian State Electrosystem, Georgia Mikheil Sartania, Georgian State Electrosystem, Georgia
	<b>ID: 364</b>	<b>INSULATION RELATED RELIABILITY PROBLEMS OF ELECTRICAL VEHICLE SUPPLY EQUIPMENT PLUGS AND PROPOSED SOLUTIONS</b> ABOMAILEK CARLOS, SYENSQO, Italy ANASTASIO ROSARIA, SYENSQO, Italy DEVAUX BENOIT, SYENSQO, Italy VAN DEN BOSSCHE MANON, SYENSQO, Italy COLOMBO ROBERTA, SYENSQO, Italy
	<b>ID: 370</b>	<b>OPTIMIZATION OF POWER TRANSFORMERS WITH GRADED INSULATION</b> Milan Čelović, Comel Transformatori, Serbia Jelena Čelović, Comel Transformatori, Serbia Aleksandr Bushev, Comel Transformatori, Serbia
<b>POSTER PRESENTATION</b>  <b>04/06/2025</b> <b>17:30-18:30</b>	<b>ID: 371</b>	<b>BENEFITS OF APPLYING NATURAL COOLING OF POWER TRANSFORMERS WITH HIGHER RATED POWER</b> Milan Čelović, Comel Transformatori, Serbia Jelena Čelović, Comel Transformatori, Serbia Aleksandr Bushev, Comel Transformatori, Serbia
	<b>ID: 372</b>	<b>COMPUTATIONAL FLUID DYNAMICS AS A TOOL FOR OPERATIONAL OPTIMIZATION OF THE FOSSIL FUEL COMBUSTION IN UTILITY BOILERS</b> Adnan Đugum, University of Sarajevo, Faculty of Mechanical Engineering, Bosnia and Herzegovina Kemal Hanjalić, University of Sarajevo, Faculty of Mechanical Engineering, Bosnia and Herzegovina
	<b>ID: 373</b>	<b>HARDWARE-IN-THE-LOOP TESTING AND ANALYSIS OF RAPID VOLTAGE INJECTION ON TRANSMISSION LINES USING MODULAR SSSC WITH LINE DISTANCE PROTECTION SECURITY CONSIDERATIONS</b> Boštjan Polajžer, University of Maribor, Faculty of Electrical engineering and Computer Science, Slovenia Jernej Černelič, University of Maribor, Faculty of Electrical engineering and Computer Science, Slovenia Uroš Kerin, Eles d.o.o., Slovenia Gorazd Hrovat, Eles d.o.o., Slovenia
	<b>ID: 374</b>	<b>ADVANCED SIMULATOR FOR TRANSMISSION SYSTEM OPERATOR TRAINING</b> Zeynep Deniz Özcan, Eltemtek, Türkiye; 2: EPRA Energy, Türkiye Büşra Töre, Eltemtek, Türkiye; 2: EPRA Energy, Türkiye Erdi Doğan, EPRA Energy, Türkiye Yiğit Şahin, Metis Information Technologies, Türkiye Ümit Çetinkaya, Turkish Electricity Transmission Corporation (TEİAŞ), Türkiye Şehri Nur Güler, Turkish Electricity Transmission Corporation (TEİAŞ), Türkiye



<b>POSTER PRESENTATION</b>  <b>04/06/2025</b> <b>17:30-18:30</b>	<b>ID: 375</b>	<b>VERIFICATION WITH GROUNDING MODELS AND FIELD PERFORMANCES DEVELOPED IN THE CDEGS PROGRAM FOR HIGH VOLTAGE POWER TRANSMISSION POLES</b> Hüseyin Bilgehan Tekşut, TEİAŞ, Türkiye Mustafa Taşçı, TEİAŞ, Türkiye
	<b>ID: 376</b>	<b>BASIC THERMAL LOAD FLOW MODEL FOR DISTRIBUTION NETWORKS</b> Sreten Davidov, Elektroinštitut Milan Vidmar, Slovenia Martin Matvoz, Elektroinštitut Milan Vidmar, Slovenia Nermin Suljanović, Elektroinštitut Milan Vidmar, Slovenia Igor Podbelsek, Elektroinštitut Milan Vidmar, Slovenia
<b>POSTER PRESENTATION</b>  <b>05/06/2025</b> <b>09:00-10:00</b>	<b>ID: 380</b>	<b>NAVIGATING THE ENERGY TRANSITION IN KOSOVO: EVALUATING THE IMPACT OF THE NEW NATIONAL ENERGY STRATEGY</b> Drenusha Gashi, Kosovo Electricity and Distribution Company, Kosovo Avni Alidemaj, Kosovo Electricity and Distribution Company, Kosovo
	<b>ID: 383</b>	<b>DEPENDENCY ON VARIOUS SIGNAL FREQUENCY BANDS FOR PARTIAL DISCHARGE SIGNAL DETECTION AND PD SOURCE POSITIONING IN POWER TRANSFORMER</b> Djordje Radmilo Dukanac, Joint Stock Company "Elektromreza Srbije" Belgrade, Serbia
	<b>ID: 391</b>	<b>FUTURE READY TRANSFORMERS: IMPACT OF AMBIENT TEMPERATURE INCREASE DUE TO CLIMATE CHANGE ON TRANSFORMER LIFETIME</b> Sonnur Erdem, GE Vernova, Turkey Andrew Goode, GE Vernova, UK Bruno Bosnjak, GE Vernova, Switzerland
	<b>ID: 396</b>	<b>STATIC AND DYNAMIC SYNERGY OF INSULATING PROPERTIES OF GAS MIXTURE SF6/N2</b> Alija Jusić, Power Electric Utility of Bosnia and Herzegovina Uroš Kovačević, Innovation center, Faculty of Mechanical Engineering, Serbia Emilija Popović, Archlishop Mitty High School Adnan Mujezinović, Faculty of Electrical Engineering, University of Sarajevo
	<b>ID: 404</b>	<b>POWERGRID'S INNOVATIVE SOLUTION &amp; UNIQUE APPROACH FOR SAFE POWER TRANSMISSION ACROSS INDIA'S DEEP KRISHNA RIVER</b> Hemant Tiwari, Power Grid Corporation of India Limited, India Pankaj Kumar Dwivedi, Power Grid Corporation of India Limited, India Nitesh Kumar Sinha, Power Grid Corporation of India Limited, India Raj Kumar Singh, Power Grid Corporation of India Limited, India Abhay Kumar, Power Grid Corporation of India Limited, India Vamsi Rama Mohan Burra, Power Grid Corporation of India Limited, India
	<b>ID: 407</b>	<b>IMPLEMENTATION OF VIRTUAL OHL SENSORS ON A 220 KV OHL IN AUSTRIA</b> Gerhard Biedenbach, Heimdall Power, Norway Ronald Hauwaerts, Heimdall Power, Norway Klemens Reich, Austrian Power Grid, Austria Oskar Oberzaucher, Austrian Power Grid, Austria Julia Christina Maier, Austrian Power Grid, Austria

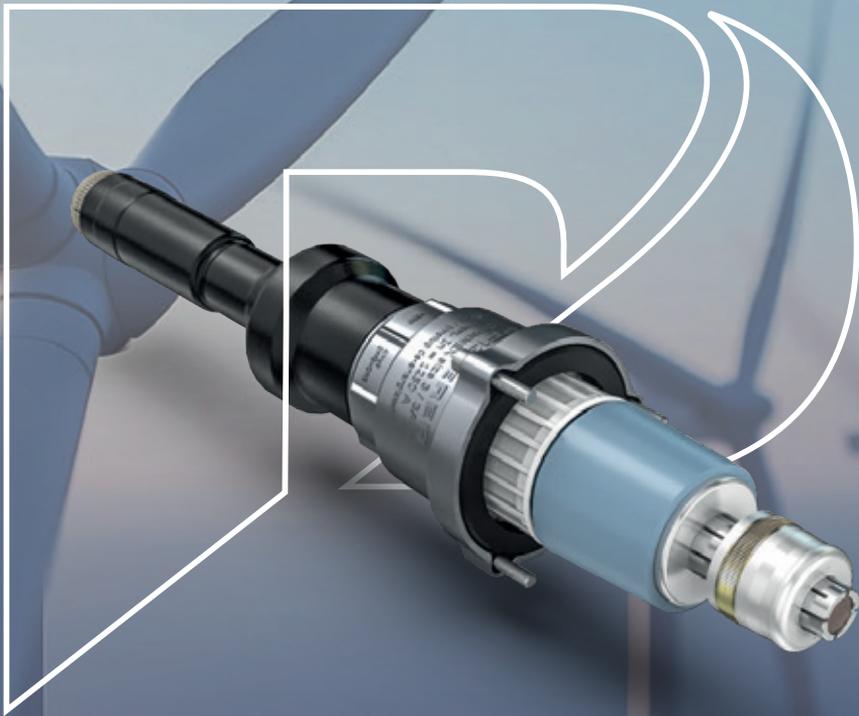


<p><b>POSTER PRESENTATION</b></p> <p><b>05/06/2025</b> <b>10:00-11:00</b></p>	<p><b>ID: 411</b></p> <p><b>ENHANCING FREQUENCY CONTAINMENT RESERVE MONITORING USING PHASOR MEASUREMENT UNITS</b> Renata Rubeša, HOPS Ltd, Croatia Marko Rekić, HOPS Ltd, Croatia Ana Kekelj, HOPS Ltd, Croatia Dalibor Brnobić, Studio elektronike Rijeka STER d.o.o. Igor Ivanković, HOPS Ltd, Croatia Krešimir Mesić, HOPS Ltd, Croatia</p>
	<p><b>ID: 416</b></p> <p><b>DEVELOPMENT OF A SUSTAINABLE AND COMPACT TRANSFORMER SUBSTATION WITH NATURAL ESTER OIL INSULATION</b> Irem Hazar, BEST Transformer, Turkiye Ramazan Altay, University of Cantabria (Department of Electrical and Energy Engineering), Turkiye Mahmut Aksoy, BEST Transformer, Turkiye Necmettin Mert Koçanalı, BEST Transformer, Turkiye Nihan Segah Cakar, Boğaziçi Elektrik Dağıtım A.Ş., Turkiye Umur Deveci, Boğaziçi Elektrik Dağıtım A.Ş., Turkiye Gürol Ecer, AFB Enerji, Turkiye Kemal Tezcan, SFA Electric, Turkiye</p>
	<p><b>ID: 418</b></p> <p><b>OPERATIONAL ANALYSIS AND MITIGATION OF ISSUES IN UNBALANCED DISTRIBUTION NETWORKS</b> Fatma AVLI FIRIS, OSTIM Technical University, Turkiye</p>
	<p><b>ID: 421</b></p> <p><b>VOLTAGE MANAGEMENT - THE CROATIAN COAST AND ISLANDS PERSPECTIVE</b> Vladimir Valentić, Croatian Transmission System Operator Plc., Croatia Ranko Jančić, Croatian Transmission System Operator Plc., Croatia Luka Calcich, University of Rijeka, FACULTY OF ENGINEERING, Croatia Diego Maras University of Rijeka, FACULTY OF ENGINEERING, Croatia</p>
	<p><b>ID: 422</b></p> <p><b>METHODS TO PREVENT COMUTATION FAILURS IN HVDC SYSTEMS</b> Vedat Tasdemir, Teias, Turkiye</p>
	<p><b>ID: 426</b></p> <p><b>IMPACT OF ENERGY TRANSIT FLOWS ON TECHNICAL LOSSES IN THE TRANSMISSION NETWORK OF KOSOVO</b> Kjani Guri, University for Business and Technology (UBT) Rexhep Selimi, Transmission, System and Market Operator J.S.C (KOSTT) Gazmend Kabashi, Transmission, System and Market Operator J.S.C (KOSTT)</p>



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Energoinvest, a multidisciplinary engineering company founded in Sarajevo in 1951, has long been a key player in the export market. Its extensive portfolio boasts tens of thousands of kilometers of transmission lines, thousands of substations, and numerous hydropower, thermal power, and process plants, all built on the expertise of its specialists.

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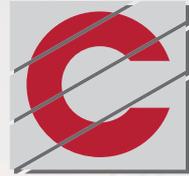


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