

4th SEERC CONFERENCE İSTANBUL

WOW İSTANBUL HOTEL and CONVENTION CENTER

11-12 OCTOBER 2023

CONFERENCE PROGRAMME



ELECTRIC MACHINES AND
POWER ELECTRONICS



ELECTRIC
TRANSMISSION



AUTOMATION AND
CONTROL



POWER
GENERATION



ENERGY
TRANSITION



DISTRIBUTION SYSTEMS
AND SMART GRIDS



www.seercturkiye2023.com



<https://www.linkedin.com/company/cigre-seerc/>



SCAN ME

08.30-10.00	REGISTRATION	
	HALL-1	ARTEMIS-1 HALL
10.00 -10.45	OPENING SESSION Zafer Benli Chair of SEERC Philippe Adam General Secretary of CIGRE Dr. Alparslan Bayraktar Minister of Energy and Natural Resources of Republic of Türkiye	
10.45 - 11.00	Handover Ceremony of SEERC Chair to Bosnia and Herzegovina	
11.00 - 11.45	COFFEE BREAK	
11.45-12.15	Keynote Speech Eleni Charpantidou – ENTSO-E Board Member Serhat Metin – Med-TSO Vice President	
12.15-12.25	Main Sponsor Welcome Speech  ASTOR® Hakan Ünsal – Astor Energy General Manager	
12.25-13.30	LUNCH	
13.30 - 15.00	Earthquake in Türkiye and Electric Power System Resilience Chair: Muhammer Nuri Aslan Deputy General Manager (TEİAŞ) Speakers: Ahmet Suat Üstün – Deputy General Manager (EÜAŞ) Ömer Baydilli – Head of Operation and Maintenance Department (TEİAŞ) Lale Yılmaz – Coordinator of Corporate Communication (ELDER) Özgün Ersoyoğlu – Regional Manager of Distribution Operations (TOROSLAR EDAS)	
15.00 – 15.30	COFFEE BREAK	





HALL-1	HALL-2	ARTEMIS-1	ARTEMIS-2	ARTEMIS-3
EURELECTRIC SESSION (15.30-16.15) <p>"Decarbonisation Speedways - Achieving Europe's 2050 Decarbonisation Objectives" <i>Cillian O'Donoghue</i> <i>Eurelectric</i> <i>Policy Director</i></p>	DISTRIBUTION SYSTEMS AND SMART GRIDS <p><i>Croatia - Goran Spilac (Chair)</i> <i>Slovenia - Uros Kerin (Co-chair)</i></p> <p>ID: 132 Estimation of Georgian Power System flexibility and adequacy <i>Archil Kokhtashvili</i></p> <p>ID: 133 A clustering and benchmarking based monthly electricity consumption analysis for creating energy efficiency insights for the utility end-users <i>Hakan Demirer</i></p> <p>ID: 143 The feasibility of frequency stabilization using battery energy storage system (BESS) in 400 kV power systems <i>Ergin Kaya</i></p> <p>ID: 153 Distribution management system (DMS) integration in distribution network of Kosovo <i>Turan Kocabayraktar</i></p> <p>ID: 156 Challenges of protection system of Kosovo Distribution Network <i>Nezir Neziri</i></p> <p>ID: 170 Integration of solar power plants in distribution network - examples from Bosnia and Herzegovina <i>Seila Gruhonjic Ferhatbegovic</i></p>	ELECTRIC TRANSMISSION <p><i>Austria - Klemens Reich (Chair)</i> <i>Greece - Dionysios Stamatiadis (Co-chair)</i></p> <p>ID: 90 Transmission capacity maximization using dynamic thermal rating in Croatian Power System <i>Zoran Buncec</i></p> <p>ID: 101 Impact of the hydrological risk on the power grid: a case study on a portion of the Italian Transmission Power System exposed to the hazard of flooding <i>Silverio Casulli</i></p> <p>ID: 125 Fault detection in power transmission lines with artificial intelligence <i>Büşra Töre</i></p> <p>ID: 126 FACTS for improved controllability of high voltage power transmission network in Georgia <i>Teona Elizarashvili</i></p> <p>ID: 129 Challenges and opportunities for multipurpose interconnectors and wind off-shore generation <i>Arman Derviskadic</i></p> <p>ID: 161 Comparative performance analysis of network reduction on the transmission expansion planning <i>Ahmet Ova</i></p>	POSTER SESSION ELECTRIC MACHINES AND POWER ELECTRONICS / ENERGY TRANSITION <p><i>Türkiye - Mikail Pürü (Chair)</i></p> <p>(15.30-16.15)</p> <p>ID: 106 Short circuit analytical prediction for transformer winding <i>Mattia Medini</i></p> <p>ID: 118 Optical current transformers <i>Melis Aliefendioğlu</i></p> <p>ID: 157 Instrument Transformers using alternative and eco-friendly high voltage insulation systems <i>Umut Babur Elik</i></p> <p>ID: 160 Reliability analysis and condition monitoring of power transformers from the Romanian Power Grid <i>Bogdan Leu</i></p> <p>(16.15-17.00)</p> <p>ID: 171 Reliability of transformers <i>Anatoly Shkolnik</i></p> <p>ID: 162 Protection and metering solutions for transmission tie lines in the Romanian power systems <i>Iulia Cristina Constantin</i></p> <p>ID: 225 Algorithm for calculation of line distance protection settings <i>Vladimer Popkhadze</i></p> <p>ID: 112 Insuring power system reliability under high renewables penetration with energy storages - a case for Ukraine <i>Sergii Shulzhenko</i></p>	SPECIAL WORKSHOP  <p>(15.30-16.30) Overcoming challenges in DGA monitoring through innovative solutions <i>Eliel Kouvalainen</i></p> <p>(16.30-17.30) Testing Protection Relays with Superimposed-Quantities and Traveling-Wave based Elements <i>Thomas Hensler</i></p>



15.30-17.30

19.00-23.00

Gala Dinner - Bosphorus Tour

HALL-1	HALL-2	ARTEMIS-1	ARTEMIS-2	ARTEMIS-3
ELECTRIC TRANSMISSION <i>Türkiye - Deniz Çoşkun - TEİAŞ (Chair)</i> <i>Kosovo - Kadri Kadriu (Co-chair)</i> ID: 95 Classification of power quality events in the transmission grid: comparative evaluation of different machine learning models <i>Umut Güvengir</i> ID: 191 Strategic positioning of transmission system operators to achieve long-term goals and sustainability of the green transition - Analysis and case study <i>Igor Ivankovic</i> ID: 192 An innovative solution for reducing EMFs: the "5-phases" pylons <i>Maria Rosaria Guarniere</i> ID: 195 A compact 24-pulses converter for overhead lines de-icing and reactive power compensation <i>Roberto Spezie</i> ID: 193 An innovative OHL design for renewable energy harvesting and transmission: the "5-phases" pylons <i>Maria Rosaria Guarniere</i>	DISTRIBUTION SYSTEMS AND SMART GRIDS <i>Greece - Emmanouil Voumvoulakis (Chair)</i> <i>Kosovo - Avni Alidemaj (Co-chair)</i> ID: 172 Imputation and forecasting of energy consumption data collected by smart meters using big data technologies in the distribution system operator <i>Andrej Samrak</i> ID: 181 Low voltage direct current distribution roadmap of Türkiye <i>Deniz Kartal</i> ID: 187 Analysis of loads during the summer-winter season in Substation (SS) 35/10 kV Gijilani I <i>Elvona Aliju</i> ID: 205 Under-frequency load shedding based on Huang's Empirical Model Decomposition approach for estimation of dt/dt and artificial neural networks <i>Maja Muftić Dedović</i> ID: 221 The impact of renewable resources on the improvement of frequency and voltage value in the distribution network of Kosovo <i>Avni Alidemaj</i>	SPONSORED WORKSHOP Prysmian Group (10.15 - 10.55) Reducing losses and increasing ampacity of overhead conductor - Bringing Sustainability for Grid <i>Vitthal Sawant</i> (10.55 - 11.15) Cable Production / Using Big Data and AI for Predictive Quality and Maintenance <i>Erdinc Yüksel</i>	POSTER SESSION DISTRIBUTION SYSTEMS AND SMART GRIDS / ENERGY TRANSITION <i>Türkiye - Mikail Pürü (Chair)</i> (09.30 - 10.15) ID: 131 Smart metering benefits for costumers and distribution system <i>Harmijete Qorolli</i> ID: 138 The impact of wind park plants on mitigation of energy crisis (2022) in Kosovo's Power System <i>Rexhep Selimi</i> ID: 176 Prevention of high voltage network disturbance propagation by on-line monitoring and diagnostic of relay protection <i>Janez Zakonjšek</i> ID: 186 A novel method for short circuit calculation <i>Giorgi Arziani</i> (10.15-11.00) ID: 189 An innovative metric for evaluating operational resilience of the high-voltage grid <i>Chiara Vergine</i> ID: 190 Smart grid project GreenSwitch <i>Goran Levacic</i> ID: 233 The caterpillar and the butterfly the experience of Italian engineering <i>M. Celozzi</i> ID: 109 Optimization module and auction mechanism for trading of guarantees of origin <i>Milan Josifovic</i>	SPONSORED WORKSHOP  (09.30-10.30) The Silent Power Player: Leakage Reactance's Impact on Transformers <i>Dr. Kamran Dawood</i>  (10.45-11.15) The innovative future-oriented pioneer of on-load tap-changers ECOTAP®VI <i>Guenther Panzer</i>

	HALL-1	HALL-2	ARTEMIS-1	ARTEMIS-2	ARTEMIS-3
11.30-13.00	AUTOMATION AND CONTROL Serbia – Ninel Cukalevski (Chair) Türkiye – Benan Başoğlu (Co-chair) ID: 86 Dynamic tariffs and smart electric vehicle charging infrastructure <i>Andreja Ivartnik Kanduc</i> ID: 100 Application for optimization of capacity reserve trading auctions <i>Goran Jakupovi</i> ID: 108 Autonomous mobile robot for warehouse logistics <i>Şeyma Tuğba Ayrancıoğlu</i> ID: 110 Central dispatching and generation control system for Electric Power Industry of Serbia <i>Goran Jakupovic</i> ID: 111 Emerging problems in system operator training and possible training simulator solutions <i>Ninel Cukalevski</i> ID: 124 The system split and blackout detection application <i>Igor Bundalo</i>	ELECTRIC MACHINES AND POWER ELECTRONICS/ ELECTRIC TRANSMISSION Georgia – Giorgi Amuzashvili (Chair) Türkiye – Kerem Köseoğlu (Co-chair) ID: 174 Impact of renewable generation on distance protection and adaptive algorithms to optimise performance <i>Rajesh Ananth</i> ID: 178 Analysing electromagnetic and thermal effects of using aluminium shield and magnetic shunt combinations at high-voltage level autotransformers <i>Necmettin Mert Koçanalı</i> ID: 197 A modular design for OHL grounding systems based on deep electrodes <i>Maria Rosaria Guarniere</i> ID: 210 Adriatic Corridor: A step towards deployment of Italian multiterminal HVDC systems <i>Enrico Maria Carlini</i> ID: 213 Hybrid high voltage AC and DC system strength evaluation with large penetration of renewable energy sources <i>Enrico Maria Carlini</i>	WIE SESSION THE ROLE OF WOMEN IN THE FUTURE OF ENERGY SECTOR Kosovo – Pranvera Dobruna Kryeziu (Chair) (11.30-12.30) Philippe Adam Karolin Ersöz Teona Elizashvili ENERGY SECTOR FROM THE PERSPECTIVE OF YOUNG WOMEN Türkiye – Hayriye Gürbüz (Chair) (12.30-13.00) Beril Bulut Özlem Taşcı Sonnur Erdem	POSTER SESSION AUTOMATION AND CONTROL /ENERGY TRANSITION Türkiye – Burak Esenboğa (Chair) (11.30-12.15) ID: 105 Electricity tampering detection system project <i>Muna Saleh Al Jabri</i> ID: 116 ADMS for planning and der control in distribution network <i>Boris Njavo</i> ID: 122 Power Quality System within Romanian TSO <i>Ciprian Diaconu</i> ID: 147 Monitoring and management of ambient conditions of the electrical grid with sensor network system <i>Büşra Töre</i> (12.15-13.00) ID: 169 Digitization of DSO business processes based on the agnostic relational model of process flows on the example of Public Enterprise Electric Utility of Bosnia and Herzegovina <i>Jasmin Heljić</i> ID: 207 The concept of Ukraine's power system development taking into account the impact of the pumped-storage power plant in modern conditions <i>Oleksandr Ryabenko</i> ID: 214 The role of PSPP in the implementation of strategy of accelerated development of RES in the countries of South-Eastern Europe <i>Yuriy Landau</i> ID: 229 The implementation of intraday auctions and its impact on the Croatian Electricity Market <i>Martina Vajdić</i>	SPONSORED WORKSHOP ENPAY Transformer Components (11.30 – 12.15) Sustainability in the supply of transformer components <i>Emrah Yürekten</i> <i>Gülşin Alkan Çolak</i> MİTAŞ ENERGY (12.15-13.00) Mitaş' Sustainability in Overhead Transmission Line Industry and Construction <i>Ahmet Acet</i> <i>Neşri Murat Bingöl</i> <i>Osman Fakıoğlu</i>
13.00-14.00	LUNCH				

	HALL-1	HALL-2	ARTEMIS-1	ARTEMIS-2	ARTEMIS-3
	AUTOMATION AND CONTROL <i>Italy – Massimo Pompili (Chair)</i> <i>Greece – Dionysios Stamatiadis (Co-chair)</i> ID: 128 Automatic generation control working scheme in Georgia, under the liberalized energy market <i>Mikhail Odisharia</i> ID: 134 A dynamic thermal rating architecture for thermal monitoring and congestion management in the Italian Grid <i>Enrico Maria Carlini</i> ID: 136 Challenges and the role of the dispatch center in the management and control of the power transmission system – a summary analysis <i>Vezir Rexhepi</i> ID: 155 The relationships between concentrations of particulate matter (PM2.5 and PM10) and meteorological parameters in the Sarajevo Canton: seasonal variations <i>Sabina Dacic Lepara</i> ID: 173 The impact of interconnection line synchronization on power system dynamic stability <i>Giorgi Erikashvili</i> ID: 180 Investigation of the effect of batteries on frequency control in power system <i>Muhammet Furkan Yilmaz</i>	ELECTRIC MACHINES AND POWER ELECTRONICS <i>Türkiye – Tuğçe Demirdelen (Chair)</i> <i>Georgia – Giorgi Amuzashvili (Co-chair)</i> ID: 87 Determination of the L-location of partial discharges in the power transformer model using UHF sensors <i>Djordje Radmilo Dukanac</i> ID: 98 Pressboard barriers in smart connection systems for high voltage power transformers <i>Hakan Coşer</i> ID: 102 Istanbul: City centre infeed with voltage source converter-based HVDC <i>Arman Derviskadic</i> ID: 107 Coupled numerical electromagnetic-structural simulation for transformer winding <i>Mattia Medini</i> ID: 152 Current transformers dimensioning in the context of digital substations <i>Anamaria Iamandi</i>	NGN SESSION "NGN FEATURES: WHAT CAN NGN PROVIDE US" <i>Türkiye – Ahmet Kerem Köseoğlu (Chair)</i> <i>Drenusha Gashi</i> <i>Bogdan Leu</i> <i>Michael Schrammel</i>		SPONSORED WORKSHOP   (14.00-14.45) Lessons Learned: TSO Experiences from EMT Studies <i>Türkiye – Gökhan Önal (Chair)</i> <i>Ümit Çetinkaya</i> <i>Yahya Mrabti</i> <i>Öner Alican</i>  (15.00-15.45) Overhead transmission towers: An overview of loading test, design and strain gauge correlation <i>Selahattin Selçuk Çıplak</i> <i>Yilmaz Erdiç Saçılık</i>
14.00 – 15.45					
15.45 – 16.00	COFFEE BREAK				



	HALL-1	HALL-2	ARTEMIS-1	ARTEMIS-2	ARTEMIS-3
	<p>AUTOMATION AND CONTROL/ ENERGY TRANSITION</p> <p><i>Slovenia – Kresimir Bakic (Chair)</i></p> <p><i>Türkiye – Tuğçe Demirdelen (Co-chair)</i></p> <p>ID: 198 Development of energy monitoring system for sustainable production in the textile industry <i>Duygu Durdu Koç</i></p> <p>ID: 217 The first lessons from rocket attacks on Ukrainian power system relative power unit's automation and control systems <i>Oleg Agamalov</i></p> <p>ID: 218 Hypergrid: coordination and control of different HVDC link <i>Enrico Maria Carlini</i></p> <p>ID: 234 Geopolitics impact on electrical grids during energy transition <i>Massimo Rebolini</i></p> <p>ID: 166 Short-term solar radiation prediction based on artificial neural network for Çukurova Region <i>Burak Esenboğa</i></p>	<p>DISTRIBUTION SYSTEMS AND SMART GRIDS</p> <p><i>Türkiye – Belgin Emre (Chair)</i></p> <p><i>Romania – Ciprian Diaconu (Co-chair)</i></p> <p>ID: 88 Effective lightning mitigation method on unshielded distribution line by using high charge ratings Externally Gapped Line Arresters (EGLA) <i>Ertuğrul Partal</i></p> <p>ID: 99 An AI-based scalable and integrated monitoring system for the electrical grid <i>Umut Güvengir</i></p> <p>ID: 120 Implementation of artificial neural networks in conductor tension calculations <i>Ömer Burak Yücel</i></p> <p>ID: 127 Electrical extensive analysis of the power network in the presence of the air core reactor FCL in the phase and neutral positions <i>Hamed Vashghghanifarahani</i></p> <p>ID: 130 Impacts of variable renewable energy on new wholesale market in Georgia <i>Giorgi Khorbaladze</i></p>	<p>SPONSORED WORKSHOP</p> <p>EPIAŞ</p> <p>(17.00-17.15)</p> <p>Transparency in competitive energy markets and transparency platform of EXIST <i>Ömer Kırcaçlar</i></p> <p>TESPAM</p> <p>(17.15-17.30)</p> <p>Long Term Gas Policies for SEE and Strengthening Position of Türkiye <i>Oğuzhan Akyener</i></p>		
16.00-17.30					
17.30-18.00	<p>Closing Session</p> <p>CHAIRMANSHIP PROJECT: Short Summary of "CIGRE South Eastern Region Electricity Overview: Generation, Consumption and Renewable Energy" <i>Tuğçe Demirdelen (SEERC TAC Chair)</i></p> <p>Closing Remarks <i>Ayten Sümer (CIGRE Türkiye NC General Secretary) - Erkan Alan (SEERC Secretary)</i></p>				





ASTOR ENERGY A.Ş.



Astor Enerji A.Ş., founded in Istanbul in 1983, is a significant real sector company that has been shaping the electromechanical manufacturing industry with over 40 years of expertise in transformer production and sales.

The company has represented our country successfully on a global scale, being innovative and setting the direction for the sector.

The company headquarters relocated from Istanbul to Ankara in 2014 and continues its production activities in two integrated factory buildings in Ankara, specifically in the Ankara ASO 2nd Organized Industrial Zone, covering a total area of 140,000 square meters with 105,000 square meters of indoor space.

The products manufactured by the company are used in all stages from the generation of electrical energy to its delivery to end-users. The company has the capacity to produce four main product groups needed by the sector under one roof, namely Power Transformers, Distribution Transformers, and Medium and High Voltage Switching products. Within this framework, the main products and services include oil-immersed and dry-type distribution transformers, power transformers, special-type transformers, industrial transformers, medium and high voltage switching products, large-scale and project-based production and field installations, as well as transformer substations including concrete and metal sheet kiosks.

Astor Enerji also generates clean energy through a 6.6 MW rooftop solar power plant located on the factory roof. In addition to its core activities, the company is involved in Solar Energy System investments and operations, as well as Electric Vehicle charging network investments and operations. With the growth potential

in its activities, the company is also increasing its number of qualified employees, providing employment to over 1,750 people in its current facilities.

In addition to its strong position in the domestic market, Astor Energy exports approximately 40% of its products to over 90 countries, with slightly over 50% of its exports going to European countries.

Astor Enerji operates through an R&D oriented approach thus conducts original R&D design, computer and software-supported analysis, and development activities for special products demanded from both domestic and international markets. Within this context the company also carries out verification activities by producing prototype products and testing them in its accredited test laboratories.

With the capacity to test all of its inhouse products in an internationally recognized R&D and accredited test center, the company also collaborates with the International CESI/KEMA laboratory.

Astor Enerji, which was the 147th largest industrial enterprise according to ISO- 500 2021 data, moved to the 128th place according to ISO-500 2022 data. When we look at the ranking based on transformer and switching product manufacturers, Astor Enerji ranks first. The shares of Astor Energy, which continues its activities with a corporate understanding, started to be traded in the Star Market of Borsa Istanbul (BIST) on 18.01.2023 with the code "ASTOR". Due to the increase in trading volume and market value, in addition to its presence in national and international indices, Astor Enerji has been included in the BIST 30 index as of July,2023,



PRYSMIAN GROUP

Prysmian
Group

Türk Prysmian Kablo ve Sistemleri A.Ş. is the Turkish operation of Prysmian Group, a world leader with around 31,000 employees, and 108 plants in over 50 countries. The company has been headquartered in Mudanya (Bursa) since 1964 and stands out in the Prysmian Group as one of the 16 plants that can produce both energy and telecom cables under the Prysmian and Draka trademarks. The product range includes all energy cables up to 220 kV, copper conductor communication cables up to 3.600 pairs, optical fiber cables, railway signaling cables, elevator systems, studio broadcast cables, and specialty cables for industrial applications. Mudanya plant can now produce more than 22.000 types of cables.

Türk Prysmian also delivers “turnkey” projects for cables and systems providing each one customer-tailored and premium services. With a capacity utilization rate of 71% in 2022, Türk Prysmian continues to be a privileged export center within the Prysmian Group, exporting approximately 18% of its TRY 7,186,815,354 turnover in 2022. With a wide geographical coverage, the company exports to more than 50 countries today including but not limited to the Turkic Republics and the Middle East. Listed on Borsa İstanbul, Türk Prysmian Kablo ve Sistemleri A.Ş. is committed to continually improving the efficiency of its products and services both in Turkey and in the global markets.



GÜNGÖR ELEKTRİK



Güngör Elektrik was established with the main objective of offering engineering, material production and trade, operation, maintenance and other services to electricity production, transmission and distribution facilities and it has carried out these activities for the past 34 years accordingly. Establishment purpose and main activities of company is commitment of construction, contracting, project and engineering services and operation-maintenance services of electricity energy transmission, distribution, and generation facilities. It has carried out its activities in accordance with this aim and its mission for the past 34 years. It has become one of the five leading brands in the industry (with domestic/foreign capital), especially in the past 15 years. Our most important objective and our primary objective for next 10 years is to survive and protect our competitive power despite all the negativities that we expect to experience in our country and our sector.

www.gungorelektrik.com

ENPAY



ENPAY is a producer of Transformer Components. As the pacesetter in its industry ENPAY has 4 manufacturing plants located in Türkiye, India, Slovakia and Bulgaria with a product range of Magnetic Cores, High Voltage Insulation; Transformerboards, HVAC and HVDC Insulation Components and Current Transformers.

ENPAY is a reliable partner to its customers in solving complex technical problems with an excellent reputation and market track record. High qualified staff, a strong know-how, an enviable R&D base, an engineering center with design capabilities and a comprehensive range of products are the most valuable assets of ENPAY, a leading example of how sustainable supply can enable the growth of the industry.

www.enpay.com

ŞA-RA GROUP



Setting off the business in 1985, announced for its successes in the world more than 38 years, ŞA-RA energy has become pioneer in the sector and associated its reputation with high quality. ŞA-RA is one of the most prominent companies in the world with its manufacturing capacity of a total of 638.500 tons. Energy transmission line towers and hardware, substation steel structures, bolts, conductor and cables, silicon insulators, highway guardrails, lighting and gsm poles represent the product range of Şa-Ra.

ŞA-RA energy performs its production activities in 13 industrial factories with a total of 480.000 m2 outdoor and 150.000 m2 indoor area. 10 of these factories are based in Adana facility and 3 are based in the Ankara facility.

ŞA-RA is the only company in Türkiye and one of the few in the world that can produce all the aforementioned products within the same group and simultaneously provide turnkey construction services in the areas of power transmission lines, open and gas insulated substations, back-to-back converter stations, energy distribution systems and telecommunication projects.

www.sara.com.tr

PSCAD



PSCAD™ (PSCAD) is the world's most advanced tool for power systems EMT simulations. As power systems evolve, the need for accurate, intuitive simulation tools becomes more and more important. With PSCAD you can build, simulate, and model your systems with ease, providing limitless possibilities in power system simulation.

PSCAD has earned the trust of power system leaders around the world in more than 80 countries for over 40 years. Our software provides unparalleled reliability, speed, and accuracy for a range of applications, including:

- Insulation coordination: lightning, switching, TOV, and TRV;
- Harmonics, ferro resonance, and power quality;
- Power electronics: HVDC and FACTS;
- Wind, solar, and distributed generation;
- Protection and relays;
- Equipment failure analysis.

As the developers of PSCAD, our technical team provides consulting services, expert advice, and in-depth training and technical support on electromagnetic transient (EMT) studies. Clients have depended on our expertise for over 40 years, making PSCAD simulation software the longest standing, industry leading transient study tool today.

www.pscad.com

LEAN POWER SOLUTIONS



Lean Power Solutions (LPS Energy), serves as a solution partner to leading companies in the global market. Lean Power Solutions consists of an international team of highly experienced specialists. Lean Power Solutions is dedicated to solve the market's most challenging problems in an affordable, reliable, and efficient manner. Lean Power Solutions provided high-quality services to global leading companies including TSOs, DSOs and manufacturers, and the company will continue to be a reliable partner for valued clients. LPS provides technical support and consultancy services on grid compliance, insulation coordination, protection and relay coordination, harmonic studies as well as fault analysis, power electronics and equipment failure analysis. Lean Power Solutions is the representative of PSCAD, RTDS and CYPE in Turkey.

www.leanpowersolutions.com

MİTAŞ ENERGY AND METAL CONSTRUCTION INC.



MİTAŞ ENERGY

MİTAŞ Energy and Metal Construction Inc. delivers power transmission and distribution projects at EPC/turnkey/engineering basis all over the world. Its activities include turn-key/EPC contracting, development of FEED, survey, design engineering, procurement, installation, civil works and construction, testing, commissioning and rehabilitation for power transmission and distribution lines, substations, and renewable energy infrastructures. MİTAŞ Energy is part of the MİTAŞ Group that manufactures and exports steel structures to 136 countries, and has become a locomotive industrial enterprise with its contributions to the global power infrastructure and wellbeing of the global community.

MİTAŞ Energy, aiming to be the pioneer of technological innovations and sustainable energy transmission and distribution solutions, has the Headquarters in Ankara, Türkiye. MİTAŞ Energy will continue to offer sustainable and “green” engineering solutions with its advanced technological infrastructure and passion for excellence. Its efforts for sustainability and distinguished qualifications of MİTAŞ Energy are recognized by the major TSO’s, private investors and leading Oil&Gas companies all over the world.

www.mitasindustry.com

MR



MR has an important job in the transmission and distribution of electrical energy: 50% of the electricity produced worldwide is regulated using our products. Founded in Regensburg, Germany, in 1868, we are a majority family-owned business, already in our sixth generation. Currently, around 3,700 employees work at the Maschinenfabrik Reinhausen GmbH headquarter in Regensburg as well as in 41 associated companies and 28 countries.

We help our global customers – energy producers, public and industrial grid operators and transformer manufacturers – with intelligent systems to regulate load flow and power quality for a safe, economical and resilient power supply. We provide high-quality products such as on-load tap-changers and de-energized tap-changers, innovative sensors, automation technology and analytics. As well as an increasing number of digital solutions.

www.reinhausen.com

MARKE



Marke Elektronik is a representative company focused on electrical test equipments and industrial electronic components since 1993. Located in Istanbul / Turkey, Marke is serving to Turkish industry with high-quality products of technology leaders. Our main focus is the testing solutions for electrical power industry. For medium & high voltage asset manufacturers we provide electrical test equipments and systems starting from stand-alone high voltage test sets up to turnkey high voltage test laboratories.

www.markeelektronik.com

EMEK ELEKTRİK INDUSTRY



Founded in 1969, EMEK Elektrik Industries Inc. is a proud, independent, responsible and globally well-respected manufacturing and testing company serving in the electromechanical sector. EMEK manufacture high quality and reliable products, taking both safety and environmental requirements into consideration.

www.emek.com.tr

EPIAS



Enerji Piyasaları İşletme A.Ş. is an energy exchange company was established on March 2015. EPIAS is responsible for managing and operating energy markets, including power, gas and environmental commodities. Mission is; efficient transparent and sustainable operation and development of energy markets and vision is being global reference point for energy market.

www.epias.com.tr

BEST



Balıkesir Elektromekanik Sanayi Tesisleri A.Ş. (BEST), founded by the Yırcalı Family in 1966 in Balıkesir, was established with %100 domestic capital. BEST is the first high-voltage transformer manufacturer in Turkey.

www.besttransformer.com

4th SEERC CONFERENCE İSTANBUL

MAIN SPONSOR



GOLD SPONSOR



SILVER SPONSORS



BRONZE SPONSOR



WORKSHOP SPONSOR



NON SESSION & BADGE+ROPE SPONSOR



LUNCH & COFFEE BREAK SPONSOR



MEDIA & COMMUNICATION SPONSOR



SUPPORTERS



SUPPORTER NGO'S



EXHIBITORS

