

September 13-15, 2017

Focus Topic of the Conference:

Energy & Sustainability

Motto: "Taking the Innovative Way"

Co-organizer of the conference: MAVIR Zrt.

Wednesday, September 13, 2017

08:30 to 09:30 AM Opening of the exhibition – *Gábor Kovács, MAVIR Zrt.*
09:30 to 09:40 AM Opening address – *József Béres, president of the Hungarian Electrotechnical Association*

9:40 AM to 01:00 PM – Morning plenary session

09:40 to 10:10 AM Main components of the new planned EU Energy Framework – *Dr. Péter Grabner, Hungarian Energy and Public Utility Regulatory Authority*

10:10 to 10:40 AM Changing role of system operation in the new European power system – *Zoltán Tihanyi, MAVIR Zrt.*

10:40 to 11:10 AM The new Strategy of the Public Utility – *Zoltán Alkér, Nemzeti Közművek Zrt. (national public utility provider)*

11:10 to 11:30 AM **Coffee break**

11:30 AM to 12:00 PM Sustainable Answers for the variable customer needs – *Judit Haraszti CEO, E.ON Tiszántúli Áramhálózati Zrt.*

12:00 to 12:30 PM Smart Pole – *Tamás Jászay, ELMŰ / innogy Solutions – HOFEKA – Netvisor – Pöry-Erőterv*

12:30 to 01:00 PM Innovative Roads to Sustainability: the Copernicus Initiative – *Dr. Dávid Raisz BME (Budapest Technical University)/RWTH*

01:00 to 02:00 PM **Lunch break**

02:00 to 02:30 PM The place and role of Paks 2 in the domestic electricity generation mix – *Dr. Attila Aszódi, State Secretary*

02:30 to 03:00 PM **YGEN – tuning of generations** – *Dr. Attila Baranyai, DEVELOR Tanácsadó Zrt.*

03:00 to 03:30 PM Awards ceremony

Awarding of the prize "For the Hungarian Electrotechnical Association"

Electric Connection – Awarding of the prize "Best Performing Electrician"

Awarding of the prizes of the MEE Mentor Program**

03:30 to 04:00 PM **Coffee break**

04:00 to 06:00 PM Session meetings

<p>Session A1 Public Lighting Solutions Round table discussion Session chairperson: <i>János Nagy</i></p>	<p>Session B1 The Situation of Professional Succession and Opportunities for Development Session chairperson: <i>Dr. Csaba Székely</i></p>
<p><i>Miklós Magai, municipal representative</i> <i>Gábor Csábi, designer</i> <i>Csaba Kovács, ELMŰ-ÉMÁSZ</i> <i>Ivette Mancz</i> <i>Zsolt Thoróczkay, Ministry of National Development, Közüti Infrastruktúra Fejlesztési Főosztály</i> <i>Zoltán Pap, BDK Zrt.</i></p>	<p>1. Challenges of Training and Succession in the Gas Industry – <i>Eszter Fekete, Magyar Földgáztároló Zrt. (Hungarian gas storage company)</i></p> <p>2. MAVIR School Program – <i>Anikó Karl, MAVIR Zrt.</i></p> <p>3. New Opportunities in Electrician Training – <i>Imre Orlay,ÉMÁSZ Hálózati Kft (grid company).</i></p> <p><i>The new opportunities for training electricians will be discussed during a round table session following the presentations.</i></p>

from 7:00 PM Dinner and networking

* We reserve the right to changes in the program.

** The presentations of those receiving Diploma Work and Thesis Awards will be held in the sessions based on their topic.

08:00 to 10:30 AM Session meetings

Session A2 The Present and Future of the Transmission System Operator Session chairperson: <i>Gábor Kovács</i>	Session B2 Electric Vehicles on the Public Roads (e-mobility) Session chairperson: <i>Dr. György Madarász</i>
1. Challenges of Taking Action on the Transmission Networks and Preparation for Operation – <i>Kristóf Almási, MAVIR ZRt.</i> 2. Our Investment Projects – <i>Dusán Kassanin, MAVIR ZRt.</i> 3. Development as well as Domestic and International Introduction of Smart Poles – <i>János Strádl and Csaba Szendi, MAVIR ZRt. and PÖYRY ERŐTERV Zrt.</i> 4. Szigetcsép Substation and the “Ladybird” pylon – <i>Viktor Veszely, MAVIR ZRt.</i> 5. Future Flow Project: Innovative Cross-Border Balancing Regulation – <i>Evelin Kiss, MAVIR ZRt.</i>	1. Electric Vehicle Safety – <i>Csaba Arató</i> 2. Mid- and Long-Term Grid Impact of e-mobility – <i>Csaba Farkas, BME (Budapest Technical University), Department of Electric Power Engineering.</i> 3. Impact of Electric Automobiles on the Distribution Network and the Opportunities Inherent Within – <i>Gábor Kaszap, ELMŰ Hálózati Kft. (network company)</i> 4. Electric Buses and the Smart Trolleybus – <i>László Kovács, IKARUS Egyedi Autóbusz Gyártó Kft. (individual bus manufacturing company), a member of the evopro group</i> 5. Development of Chemical Storage Solutions, Responses to Practical Challenges – <i>Zoltán Fülöp, EnerSys Hungária Kft.</i>

10:30 to 10:50 AM Coffee break

10:50 to 12:50 AM Session meetings

Session A3 Future of the Energy Market in Light of European and Domestic Regulations Session chairperson: <i>Sándor Herczeg</i>	Session B3 Smart Future, Smart Solutions for Energy Efficiency Session chairperson: <i>Richárd Haddad</i>
1. Current Issues related to the Vision of the Energy Market – <i>Sándor Herczeg, MAVIR ZRt.</i> 2. Implementation of the Network Codes – <i>Dr. Hajnalka Kelemen, MAVIR ZRt.</i> 3. Present and Potential Future of Renewable Subsidies – <i>Dr. Mátyás Vajta, MAVIR ZRt.</i> 4. Changes in Reserve Provisioning Requirements Expected due to Changes in the Domestic Resource Situation – <i>Gábor Alföldi, MAVIR ZRt.</i> 5. Role of Exchanges in the Development of the Energy Market – <i>Péter Tóth, Kornél Kovács, MAVIR ZRt.</i>	1. Application of the 450 MHz LTE Communication Technology in the Settlement and Measurement System of MAVIR – <i>Róbert Havasi, MAVIR ZRt.</i> 2. KOM Zrt. Current Status and Experiences of the Pilot Project – <i>Kristóf Vöő, KOM Zrt.</i> 3. Smart Solutions in e-mobility – <i>László Péntes, MVM Partner Zrt.</i> 4. ELMŰ-ÉMÁSZ on New Roads in Energy Efficiency – <i>Lajos Lovász, Budapesti Elektromos Művek Nyrt. (Budapest electric works)</i> 5. Smart Metering Based Energy Saving Programs within the EU – <i>Sándor Molnár, Ariosz Kft.</i>

12:50 to 01:50 PM Lunch break

01:50 to 03:50 PM Session meetings

Session A4 New Technological Solutions at Substations and on the Networks Session chairperson: <i>Imre Orlay</i>	Session B4 Digitalization and IT Developments within the Industry Session chairperson: <i>Márk Karacsi</i>
1. Comparison of Medium Voltage Network Design Technical Solutions based on the MSZE 50341 and MSZ EN 50341 Standards – <i>Gergely Tizer, ELINOR Mérnökiroda Kft. (engineering office)</i> 2. Load Testing, Results and Experiences of a Highly Complex IEC 61850 Redundant System – <i>Dávid Józsa, Infoware Zrt.</i> 3. Application of Non-Traditional instrument Transformers – <i>Attila Donka, ABB Kft.</i> 4. Different Method for the Construction of Joint Pillaring – <i>András Turóczy + 2, TÁVGER Kft.</i> 5. Prevention of Faults Caused by Natural Events of the Medium Voltage Overhead Network – <i>László Végh, Megawatt Mérnökiroda Kft. (engineering office)</i>	1. Innovation in Low Voltage Operational Management – <i>Zoltán Albert, E.ON Hungária Zrt.</i> 2. Railway Overhead Network Simulation – <i>Róbert Gaál, Astron Informatikai Kft.</i> 3. Digital Substation – Proliferation of Digitalization in the Area of Substations – <i>Gábor Erdei, ABB Kft.</i> 4. New Opportunities of Mobile technology in the Energy Industry – <i>Ákos Kelemen, Astron Informatikai Kft.</i> 5. Rollout of e-utility Publication and Implementation of Centralized Utility Harmonization at DÉMÁSZ Hálózati Elosztó Kft. – <i>Zoltán Lajkó, DÉMÁSZ Hálózati Elosztó Kft. (network distribution company)</i>

03:50 to 04:10 PM Coffee break

04:10 to 06:10 PM Session meetings

Session A5 System Integration Questions of Renewable Energy Generation Session chairperson: <i>Dr. György Varjú</i>	Session B5 Focusing on Safety, Health, and the Environment Session chairperson: <i>István Korponai</i>
<ol style="list-style-type: none"> 1. Impact of the Proliferation of Renewable Energy Sources on System Stability – <i>István Táci Dr. István Vokony, Budapest University of Technology and Economics</i> 2. Voltage Regulation of Medium Voltage Network with Solar Generation – <i>Csaba Farkas, Budapest University of Technology and Economics</i> 3. Voltage Regulation Using Solar Panel Inverters – <i>István Táci, Budapest University of Technology and Economics</i> 4. Examination of Conducted Interference of Network Inverters on Low Voltage networks – <i>Dr. József Ladányi, Budapest University of Technology and Economics</i> 5. 2-year Experiences of 15 MW (18.5 MW) Solar Plant at the Mátra Power Plant – <i>Zoltán Árpád Weber, ENERGOBIT SA</i> 	<ol style="list-style-type: none"> 1. Let's (also) Learn from Each Other! – Opportunities and Results of an Innovative Cooperation for the Development of Work Safety Culture – <i>István Korponai, HEA</i> 2. Healthy Workplaces – Maintaining the Employability of elderly Employees Working at the Operational Sites of MAVIR ZRt. on the Long Term – <i>Dr. Oszkár Cziva, MAVIR ZRt.</i> 3. Bird Protection Program of MAVIR ZRt. on the High Voltage Transmission Network: Installation of Artificial Nests and Bird Aversion Fixtures – <i>György Bíró, MAVIR ZRt.</i> 4. Risk Based Assessment of the Technical Safety of 132 kV Overhead Lines or Overhead Line sections, with Special Regards to Unfavorable Changes in Weather – <i>Sándor Sajtos, ELMŰ Hálózati Kft.</i> 5. Low voltage FAM – Introduction of New Works at ELMŰ/ÉMÁSZ – <i>Zoltán Lipovits, ELMŰ Zrt.</i>

- 06:10 to 07:10 PM** Group discussion of topics raised at the session meetings, preparation of position
- 06:30 to 08.00 PM** **Optional Cultural Program** (based on prior registration) Smart Towns – World Village – *András Kepes*
- from 08:00 PM** Dinner

Friday, September 15, 2017

- 8:30 AM to 10:30 AM** Session meetings

Session A6 Efficient Utility Investments Session chairperson: <i>Mihály Pipicz</i>	Session B6 Safe Electric Works Session chairperson: <i>János Garai</i>
<ol style="list-style-type: none"> 1. Optimization of Investment and Reconstruction Activities – <i>Jenő Veres, Geometria Kft.</i> 2. Providing IT Support for Network Development – <i>Attila Bodrogi, DÉMÁSZ Hálózati Kft. (network company)</i> 3. Network Investment for Reducing Losses – <i>László Fekete, ELMŰ Hálózati Kft. (network company)</i> 4. Event Controlled Digital Customer Notification at E.ON – <i>Dóra Csertánné Kertay, E.ON Dél-dunántúli Áramhálózati Zrt. (southern Transdanubia network company)</i> 5. IT Support for the Local Control of Investment Works – <i>Tamás Laczi, ELMŰ Hálózati Kft (network company).</i> 	<ol style="list-style-type: none"> 1. Safe Electric Works and the LED Lamp – <i>Ferenc Novothny (PhD), Óbuda University</i> 2. Fire Safety of Small Solar Plants – <i>Attila Kruppa, OBO Bettermann Kft.</i> 3. Compliance in Explosive Spaces – <i>Árpád Veress, Stahl Magyarország Kft.</i> 4. The Future of Lighting Protection Standardization – <i>Dr. Norbert Szedenik, BME (Budapest Technical University), Department of Electric Power Engineering</i>

- 10:30 to 10:50 AM** **Coffee break**
- 10:50 AM to 01.00 PM** Closing plenary session
- 10:50 to 11:15 AM** A Century of Rivalry between Petrol and Electric Cars- *Dr. Sándor Jeszenszky, HEA TTB*
- 11:15 to 11:40 AM** Consultation in progress
- 11:40 AM to 12:05 PM** Quantum Leap in Digital – *Mihály Szabó, ABB Kft.*
- 12:05 to 12:30 PM** Providing Heat for an Upgraded Hotel Using Hungarian Heat Pumps in Bükkfürdő– *Ferenc Komlós*
- 12:30 to 12:45 PM** Summary of key topics and presentation of the position adopted at the 64th conference of the HEA – *Richárd Haddad, chief secretary of the Hungarian Electrotechnical Association*
- 12:45 to 12:55 PM** Conclusions and closing address – *József Béres, president of the Hungarian Electrotechnical Association*
- 12:55 to 01:00 PM** Awarding of the conference cup
- from 01:00 PM** Lunch