



**2<sup>nd</sup> Conference „E-mobility  
- challenges for the power industry, local  
governments and transport”**

19-20 June 2018

Kraków (Energy Centre, AGH University of Technology)

**Draft programme\***

**Day I - 19 June 2018**

9.00 Welcome coffee / registration

**10.00 Official opening:** Dorota Kubek, Mariusz Marchwiak, "Nowa Energia" Publishing House

**10.10-12.30 PANEL 1 Electromobility - a new industry: opportunities and threats**

**Panel Moderator:** Prof. Wojciech Nowak, Ph.D., D.Sc. Eng., Director of the Energy Centre, AGH University of Technology

- **Construction and development of charging stations under the new legislation**, Witold Chmarzyński, Legal Counsel / Partner at CIEŚLIKOWSKI, CHMARZYŃSKI Kancelaria Adwokacko-Radcowska Sp.j. (30 min.)

12.30-13.00 Coffee break: talks and exchange of experience

**13.00-14.15 PANEL 2 Grid infrastructure and electromobility**

**Panel Moderator:** Prof. Zbigniew Hanzelka, Ph.D., D.Sc. Eng., Department of Electrical Drives and Automation Systems for Industry, AGH University of Technology

- **Analysis of electric vehicle market development's impact on capacity and power demand of the National Power System** - Marek Tabor, Director, R&D, PSE Innowacje Sp. z o.o. (20 min.)

- **Electromobility development prospects from the point of view of the National Power System** - Krzysztof Badyda, Wojciech Bujalski, Łukasz Szablowski, Paweł Bralewski, Institute of Heat Engineering, Warsaw University of Technology (20 min.)

- **Distribution system operator as an active participant of the electromobility development process** - Wojciech Drożdż, Ph.D., D.Sc. professor at University of Silesia, Vice-President for Innovation and Logistics, ENEA Operator Sp. z o.o. (20 min.)

- **Electric vehicles in smart power grids: the vehicle-to-grid concept** - Dr. Ing. Bartłomiej Arendarski, Fraunhofer Institute for Factory Operation and Automation IFF (20 min.)

14.15-15.15 Lunch (AGH Energy Centre's exhibition tent)

**15.15-16.30 PANEL 2 Grid infrastructure and electromobility - cont.**

**Panel Moderator:** Prof. Zbigniew Hanzelka, Ph.D., D.Sc. Eng., Department of Electrical Drives and Automation Systems for Industry, AGH University of Technology

- **Electric vehicle charging infrastructure's impact on power distribution grid**, Robert Smoleński, Ph.D., D.Sc. Eng., professor at University of Zielona Góra, Deputy Director, Power Engineering Institute (20 min.)

- **Role and activities of TAURON Dystrybucja under the new law on electromobility** - Tomasz Rodziewicz, Manager, Innovation and New Technologies Department, TAURON Dystrybucja S.A. (20 min)

- **Charging infrastructure solutions** - Piotr Andrzejewski, E-mobility Product Manager, PHOENIX CONTACT Sp. z o.o. (15 min.)

**16.30-17.45 PANEL 3 - Mobile and stationary energy storage**

**Panel Moderator:** Prof. Janina Molenda, Ph.D., D.Sc. Eng., Head of Hydrogen Power Institute, AGH University of Technology

- **High-capacity scalable energy storage systems** - Prof. Janina Molenda, Ph.D., D.Sc. Eng., Head of Hydrogen Power Institute, AGH University of Technology (30 min.)

17.45-18.00 Coffee break: talks and exchange of experience

#### 18.00-19.00 Panel 4 - Discussion and summary

**Discussion Moderator:** Prof. Wojciech Nowak, Ph.D., D.Sc. Eng., Director of the Energy Centre, AGH University of Technology

**Participation has been confirmed by (in the alphabetical order):**

- Dr. Ing. Bartłomiej Arendarski, Fraunhofer Institute for Factory Operation and Automation IFF
- Wojciech Bujalski, Ph.D., Eng., professor at Warsaw University of Technology, Institute of Heat Engineering
- Wojciech Drożdż, Ph.D., D.Sc. professor at University of Silesia, Vice-President for Innovation and Logistics, ENEA Operator Sp. z o.o.
- Robert Smoleński, Ph.D., D.Sc. Eng., professor at University of Zielona Góra, Deputy Director, Power Engineering Institute
- Marek Tabor, Director, R&D, PSE Innowacje Sp. z o.o.
- Jerzy Topolski, Board Vice-President for Operator relations, TAURON Dystrybucja S.A.

19.00-22.00 Buffet dinner, social meeting (AGH Energy Centre's exhibition tent)

### Day 2 - 20 June 2018

#### 9.00-10.00 PANEL 5 - E-mobility - challenges for local governments and collective transport

**Panel Moderator:** Prof. Tadeusz Uhl, Ph.D., D.Sc. Eng., Department of Robotics and Mechatronics, AGH University of Technology

- **Artificial intelligence in electromobility** - Prof. Tadeusz Uhl, Ph.D., D.Sc. Eng., Department of Robotics and Mechatronics, AGH University of Technology (20 min.)
- **Functional security and electric security: requirements for electric vehicles** - Tomasz Detka, MSc Eng., Head of Electromobility Department, Automotive Industry Institute (20 min.)
- **Gdynia city's experience in the field of electromobility** - Mikołaj Bartłomiejczyk, D.Sc. Eng., Chief Power Engineer, Przedsiębiorstwo Komunikacji Trolejbusowej w Gdyni Sp. z o.o. [Trolleybus City Company] (20 min.)
- **LCC (Life cycle cost) as a component of environmentally friendly municipal transport** - Jacek Fink-Finkowski, Project Engineer, Siemens Sp. z o.o. (15 min.)

#### 10.00-11.00 PANEL 6 Role of alternative fuels in transport

**Panel Moderator:** Marek Ściążko, Ph.D., D.Sc. Eng., professor at AGH University of Technology, Fuel Technology Section, Institute of Chemical Processing of Coal, AGH University of Technology

- **Technical and environmental aspects of using contemporary alternative fuels as a potential alternative to EVs in transport** - Krzysztof Biernat, D.Sc. Eng., professor at Cardinal Wyszyński University in Warsaw; Piotr Wieczorek, D.Sc. Eng., Automotive Industry Institute (20 min.)
- **Prospects for hydrogen use in transport** - Marek Ściążko, Ph.D., D.Sc. Eng., professor at AGH University of Technology, Fuel Technology Section, Institute of Chemical Processing of Coal, AGH University of Technology (20 min.)

11.00-11.30 Coffee break: talks and exchange of experience

#### 11.30-12.30 Panel 7 - Discussion and summary

**Discussion Moderator:** Prof. Tadeusz Uhl, Ph.D., D.Sc. Eng., Department of Robotics and Mechatronics, AGH University of Technology

**Discussion participants will include (in the alphabetical order):**

- Mikołaj Bartłomiejczyk D.Sc. Eng., Chief Power Engineer, Przedsiębiorstwo Komunikacji Trolejbusowej w Gdyni Sp. z o.o. [Trolleybus City Company]
- Krzysztof Biernat, D.Sc. Eng., professor at Cardinal Wyszyński University in Warsaw

12.30-13.15 Lunch

\* The programme may be modified by the Organiser

Patronat Honorowy:



Patronat Naukowy:



Partner Merytoryczny:



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Współpraca:



Organizator:



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