

SEERC CONFERENCE - CONCLUSIONS

ACADEMIC FORUM

Prof. Igor Papič, dean of Faculty for Electricity of Ljubljana, (Slovenia):

- power engineering is increasingly more interdisciplinary, future experts will have to be knowledgeable in economy, legislation, sociology, ...,
- use of national and foreign languages and terminology must be balanced,
- educational systems are constantly improving to include teaching methods and tools verified by the leading teaching institutions in the world,
- a balance is needed between basic and new disciplines, a good understanding of the conventional power system operation is crucial for the introduction of new technologies,
- universities in the region must strengthen their cooperation (Erasmus Program),
- universities must intensify their cooperation with power industry.

SESSION 1: Electric energy systems in region – challenges up to 2030

Marko Hrast, ELES TSO, division Infrastructure director (Slovenia):

The main goal of the session was to present electric energy systems of all counties in SEERC region, their present state of the system, plans for future development and main challenges which will be the driving force for the future electric energy systems.

Eight out of fourteen CIGRE NC presented their national electric energy systems. The common characteristic of all counties is that they are interconnected in the same European synchronous electric energy system (except Ukraine). Their present situation is based on geographical position, economic situation and historical development of the system.

It is common for all members that they will further invest into RES and developing the products and services to integrate them into the electric grid. Future challenges will be overcome by new technologies, which enables to make systems become more flexible and resilient, (such as new inland and submarine cable connections in AC and DC technology, voltage profile control with different technological solutions, new generation of OH HV lines, storage solutions....) All countries presented fast development of Smart Grid Solutions, which will enable to operate more efficiently with the existing assets and to integrate more efficiently new production facilities into the system. All countries also underline further development of market solutions to enable easier trading and to bring consumer's better services.

RESULTS OF PAPER COMPETITION

SESSION OF TOPIC 1 **Chairman:** M. Muhr (Austria)

Co-chairmen: Y. Bondarenko (Ukraine), D. Sabolić (Croatia), A. Koronides (Greece)

BEST PAPER AWARD 1

Proposal for CIGRE SCIENTIFIC ENGINEERING review

1-19	Gorazd Bone, Rafael Mihalič (Slovenia): <i>A dynamical equivalent for the electric power system</i>
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SESSION OF TOPIC 2

Chairman: M. Pompili (Italy)

Co-chairmen: M. Čalasan (Montenegro), F. Muzi (Italy)

BEST PAPER AWARD 2

2-07	J. Kabouris, K. Tsirekis, A. Georgopoulos, I. Aravanis (Greece): <i>The Interconnection of the Cycladic Islands: A Major Innovative Transmission Project for the Greek EPS</i>
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Proposal for CIGRE SCIENTIFIC ENGINEERING review

2-05	Milutin Ostojić, Martin Čalasan (Montenegro): <i>Magnetic Field of the Bipolar HVDC Cable Italy-Montenegro in the Sea and in the Land Section</i>
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SESSION OF TOPIC 3

Chairman: N. Stefanović (Serbia)

Co-chairmen: U. Salobir (Slovenia), T. Kapetanovic (Austria)

BEST PAPER AWARD 3

3-01	D. Martinčić (Montenegro), D. Međimorec (Croatia), A. Mijušković (Montenegro): <i>Regionally coordinated auctions of cross-border transmission capacities between South East European Transmission System Operators</i>
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Proposal for CIGRE SCIENTIFIC ENGINEERING review

3-04	C. Todem, A. Kaiser, V. Wiedner, H. Wornig (Austria): <i>T European network codes - Bidding Zone Review Impacts on the SEE region resulting from a Austrian-German market split</i>
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3-15	Guido Guida, Mauro Caprabanca, Federico Quaglia, Luca Luzi, Carlo Bruno, Marta Maria Emolumento, Matteo Simone Stori (Italy): <i>Innovative tool for the outages plan optimization in the Italian Transmission Network</i>
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SESSION OF TOPIC 4

Chairman: M. Rebolini (Italy) (Serbia)

Co-chairman: R. Çağlar (Turkey)

BEST PAPER AWARD 4

4-09	Klemens Reich, Michael Leonhardsberger, Herbert Lugschitz (Austria): <i>Test-run for uprating of Overhead Lines using innovative Technologies at APG</i>
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Proposal for CIGRE SCIENTIFIC ENGINEERING review

4-15	Massimo Muggiasca (Italy): <i>Unsymmetrical Spacer Damper designed to control the sub span oscillation of a conductor bundle</i>
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4-21	George Messinis, Aris Dimeas, Vasilis Rogkakos, Kostas Andreadis, Iraklis Menegatos, Nikos Hatziargyriou (Greece): <i>Utilizing Smart Meter Data for Electricity Fraud Detection</i>
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