



# CIGRÉ SEERC

## SOUTH EASTERN EUROPEAN REGION OF CIGRÉ (SEERC)

AUT - BIH - CZE - GRC - HRV - ITA - MKD - MNE - ROU - SRB - SVN - TUR - UKR - HUN\*

20 July, 2015

## MINUTES OF THE MEETING IN KIEV 2015

Third official meeting of the Council of South East European Region of CIGRE (SEERC) was held in Ukraine on Tuesday, **23 June 2015**, in Kiev, in the *Boutique Hotel Vozdvizhensky*. Meeting was hosted by NC CIGRE of Ukraine.

### Agenda of the meeting (10:00)

1. Opening speech of the Chairman of the Ukrainian NC CIGRE
2. Minutes of the last meeting in Belgrade (November 2014)
3. Minutes of the ATC meeting in Vienna (March 2015)
4. Launching the First Regional SEERC Power Conference
5. Discussion on General Rules of Operation
6. Exchanging information country by country (National CIGRE events)
7. Presentation of Large system disturbance in Turkey
8. Discussion on Administrative Council Meeting in Malaysia
9. Follow up

### **Presence: (15) from 9 NC CIGRE**

- Massimo Rebolini (ITA)
- Gojko Dotlić (SRB)
- Božidar Filipović-Grčić (HRV)
- Mijajlović Predrag (MNE)
- Yuri Bondarenko, Aleksandr Denjsenko, Anastasia Trukhachova, Irina Tsarkova (UKR)
- Klemens Reich (AUT)
- Zdenek Muller, Josef Tlusty (CZE)
- Fikret Tarhan, Cem Sauma (TUR)
- Krešimir Bakič, Maks Babuder (SVN)



*Boutique Hotel Vozdvizhensky, Kiev*

**Excuses for absence (4):** Dimitrios Michos (GRC); Rusmir Mahmutčehajić (BIH), Ciprian Diaconu (ROU), Ruben Taleski (MKD);

List of attendance is attached to MoM.

### **Ad1) Opening**

The official meeting was opened by **Yuri Bondarenko** Ukrainian CIGRE representative at the Administrative Council of CIGRE and the main organizer of the meeting. He welcomed everyone present and briefly presented Program of the 2-day MB meeting. Actually, SEERC MB meeting started day before on 22<sup>nd</sup> June in the Ukrainian National Power Company "Ukrenergo". Delegates of SEERC there met the leading persons of Ministry of Energy and Coal Industry of Ukraine, CEO from National Power Company "Ukrenergo", Nuclear Power Industry as well as Hydro Power Company leaders. During fruitful discussion, they presented situation of Ukrainian Electric power sector, potentials and future plans. Everyone underlined importance of the cooperation with CIGRE as very respectable technical organization.

At the beginning of the official meeting, chairman of SEERC, Kresimir Bakic particularly welcomed to the representatives of the Czech and Slovak NC CIGRE, who for the first time attended SEERC MB Meeting. **Mr. Tlusty and Mr. Muller** explained the situation in NC CIGRE and expressed the wishes to cooperate with SEERC. **Mr. Reich** from Austrian NC CIGRE also attended first time MB meeting but Austria already in March organized SEERC Advisory Technical Committee in Vienna.

**Ad2)** *Minutes of the last meeting*

Minutes of the second meeting in Belgrade was approved without any remarks. Belgrade meeting was important due to decisions on the organization framework. All decisions based on results of Questionnaire. At the Belgrade meeting was also first SEERC Workshop “*Maintenance and recovery of HV electricity transmission systems and aerospace assistance*”. Workshop was accepted very well. Second important decision was establishing Advisory Technical Committee (ATC) of SEERC for organization of Technical work with regional aspects.

**Ad3)** *Minutes of the ATC meeting in Vienna*

In the item 4 was list of the members proposed by NCs. It was remarked that this list was not accuracy completed. **Italian membership** is correctly stated:

- Massimo Pompili, (University of Rome),
- Sergio Chinosi (Prysmian), and
- Sergio Libratti (ENEL).

Members **from Slovenia** are:

- Maks Babuder (EIMV, Research Institute), chairman,
- Marko Hrast (ELES, TSO)
- Viktor Lovrenčič (C&G, Consulting)

Members **from Croatia** are:

- Ivica Pavić, (University of Zagreb)
- Šime Miliša, (Končar, Manufacturer)
- Božidar Filipović-Grčić (CIGRE)

Members **from Austria** are:

- Herbert Lugschitz (APG, TSO)
- Klemens Reich (APG, TSO)

Member **from Serbia** is:

- Đorđe Golubović (EMS, TSO)

Member **from Turkey**:

- Selim Yürekten (Enpay, Manufacturer)

From other countries members for ATC membership are still missing. (BIH, MNE, MKD, GRC, CZE, UKR, ROU).

**Action 3.1:**

*National Committees without ATC members are kindly asked to fulfil membership of Advisory Technical Committee. This membership is crucial for further discussion on technical issues, regional working groups, workshops, etc.*

Chairman of SEERC ATC Maks Babuder explained some aspects of possible future work important for region and what is not covered by global CIGRE technical work. Regarding to the topics for the first SEERC Power Conference, four topics were selected:

- *Energy and Environmental Policy in Region,*
- *Submarine cables issues in Region,*
- *Regional Energy market Aspects and*
- *Innovation in electricity infrastructure of the Region.*

Other text in minutes was approved without remarks.

**Ad4)** *First Regional SEERC Power Conference*

Chairman of ATC Maks Babuder presented complete structure of proposed First Conference. After very fruitful discussion, Council of SEERC agreed for following actions:

**Action 4.1:**

*First Regional CIGRE South East and Central Europe Conference will be in Portorož, Slovenia on **June 7-8 2016 in the CONGRESS CENTRE BERNARDIN HOTELS.** It will be 2-days Conference.*

- **First day** will be only for invited speakers, invited papers from each SEERC member states and Academic Forum (Four Universities will be invited; Topic: on future power engineers in region).
- **Second day** will be organized in 4 parallel sessions on 4 selected topics and subtopics.
- Conference will be ended with Conclusion Forum and handover of the Leadership of SEERC to next NC CIGRE

#### **Action 4.2:**

All financial risks for conference will be covered by the Slovenian NC CIGRE. Conference fee will be at popular level, and free for MB and ATC members, invited speakers, and students with confirmation from University. All other participants have to pay for conference fee.

#### **Action 4.3:**

All National Committees member of SEERC will submit invited paper related to the Development plans up to 2030 (Network, generation, level of renewables, foreseeing new technologies in power system, environmental solutions). Each presentation will be 15 minutes (15.00 to 19.00). Conference will be concluded with open discussion with session's conveners and at the end Handover of leadership to other SEERC member.

#### **TOPICS for paper sessions (second day):** Agreed at first ATC meeting

##### **TOPIC 1: Energy and Environmental policy in Region**

Sub-topics: Needs, opportunities, standards, security issues, environmental harmonization, competition vs. cooperation, cases/examples of good practices, green strategies, scientific methodology – Possible coordination with CIGRE Sc C1, and Sc C3

##### **TOPIC 2: Submarine cables issues in Region**

Sub-topics: Adriatic projects, Mediterranean projects, other long term projects, submarine environmental issues, deep undersea cases, acquired good practice, economy of projects, new technologies of submarine cables - Possible coordination with CIGRE Sc B1

##### **TOPIC 3: Regional Energy Market Aspects**

Sub-topics : Vision of future Central and South East European Energy Market, Metering issues in the Region, Market aspects, Trading issues, Impact of interconnections, New OHL interconnections in the region, Demand side involvement in market - Possible coordination with CIGRE Sc C5, Sc C2, Sc B2.

##### **TOPIC 4: Innovation in electricity infrastructure of the Region**

Sub-topics: SmartGrid projects, Technical and Non-technical innovations, Demand side readjustments, Penetration of Electrical vehicles, Innovations in system operation processes, New business frameworks, Intelligent utilities - Possible coordination with CIGRE Sc C6, Sc D2.

For each topic will be selected 20 interesting papers for oral presentation.

Leaflet with First call for papers will be launched by Slovenian NC CIGRE.

Important dates for paper participation from SEERC countries and other world:

**First call for synopsizes:** 15. October 2015

**Information of acceptance:** 15. December 2015

Second part of November will be next ATC SEERC meeting, where will be designed complete Conference program and papers.

**Final date for full papers:** 15. March 2016.

**Final date for final acceptance:** 15. April 2016.

In discussion of leadership by topics (reviewing, reports, session chairman and co-chairmen), the first iteration was NC CIGRE:

**T1:** Austria, Croatia, Romania, Macedonia, Hungary

**T2:** Italy, Montenegro, Turkey, Greece, Croatia

**T3:** Slovenia, Serbia, Italy, Austria

**T4:** Greece, Czech/Slovak, Ukraine, Bosnia and Hercegovina, Turkey

Final version will be agreed at the next ATC meeting in November 2015. Possible location is Athens.

MB again confirmed start of work of 4 Regional Working Groups:

**RWG 01 - Regional aspects on creation of NNA for new standard for overhead lines EN 5034,**

**RWG 02 - Regional perspective of shunt reactor introduction in the transmission system,**

**RWG 03 - Environmental and technical assessment for submarine cables siting issue in Mediterranean area,**

**RWG 04 - Technical and economical features of Hydro Pumped storage power plants (HPSPPs) in power systems.**

Terms of Reference for each RWG are published in the minutes of the meeting in Belgrade. And also at the web site: [www.cigre-cired.si](http://www.cigre-cired.si). Registration of Experts: directly to conveners by e-mail:

RWG 01 – Kresimir Bakic, Slovenia, e-mail: [kresimir.bakic@eles.si](mailto:kresimir.bakic@eles.si)

RWG 02 – Maks Babuder, Slovenia, e-mail: [maks.babuder@eimv.si](mailto:maks.babuder@eimv.si)

RWG 03 – Massimo Pompili, Italy, e-mail: [massimo.pompili@uniroma1.it](mailto:massimo.pompili@uniroma1.it)

RWG 04 – Yuri Bondarenko, Ukraine, e-mail: [ynb@ukr.net](mailto:ynb@ukr.net).

Kick-off meeting of RWG 02 and RWG 03 were announced to be in October 2015 (7-9 October) in Marina di Ragusa, Sicily, with technical trip to the largest AC cable voltage level project in the world – Italy to Malta, 110 km at 220 kV. Invitation for members will be published soon.

**At the moment memberships of RWGs are:**

**Regional WG 01**

**Italy**

Alfonso Posati ([alfonso.posati@terna.it](mailto:alfonso.posati@terna.it) )

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**Slovenia**

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Kresimir Bakic ([kresimir.bakic@eles.si](mailto:kresimir.bakic@eles.si))

**Croatia**

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**Austria**

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**Serbia**

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**Macedonia**

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**Turkey**

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**Ukraine**

Gennadiy Kachalenko ([zakn@ukr.net](mailto:zakn@ukr.net) )

Vladimir Lyakh ([vv@pkms.com.ua](mailto:vv@pkms.com.ua) )

Yaroslav Nazim ([yaroslav.nazim@gmail.com](mailto:yaroslav.nazim@gmail.com) )

Oleg Semenko ([semenkoo@ukr.net](mailto:semenkoo@ukr.net) )

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**Regional WG 02**

**Italy**

Marco Giussani ([m.giussani@tamini.it](mailto:m.giussani@tamini.it) )

Stefano Zunino ([stefano.zunino@terna.it](mailto:stefano.zunino@terna.it) );

Francesco Dicuonzo ([francesco.dicuonzo@terna.it](mailto:francesco.dicuonzo@terna.it) )

**Slovenia**

Marko Hrast ([marko.hrast@eles.si](mailto:marko.hrast@eles.si))

Maks Babuder, convener

**Croatia**

Goran Majstrović ([gmaistro@eihp.hr](mailto:gmaistro@eihp.hr) )

Božidar Filipović-Grčić ([bozidar.filipovic-grcic@fer.hr](mailto:bozidar.filipovic-grcic@fer.hr) )

Viktor Milardić ([viktor.milardic@fer.hr](mailto:viktor.milardic@fer.hr) )

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**Serbia**

Duško Tubić ([dusko.tubic@ems.rs](mailto:dusko.tubic@ems.rs))

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**Turkey**

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**Ukraine**

Leonid Kontorovych ([leonid.kontorovych@ztr.com.ua](mailto:leonid.kontorovych@ztr.com.ua))

**Regional WG 03**

**Italy**

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Nicola Kuljaca ([nikola.kuljaca@prysmiangroup.com](mailto:nikola.kuljaca@prysmiangroup.com) );

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**Croatia**

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Klemen Dragaš ([klemen.dragas@eles.si](mailto:klemen.dragas@eles.si) )

Members from Montenegro, Turkey, Greece, and Ukraine are kindly invited.

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**Regional WG 04**

**Italy**

Gianluca Bruno (TRI) – e-mail missing

Julio Alterach ([Julio.Alterach@rse-web.it](mailto:Julio.Alterach@rse-web.it) )

and indication for a member from ENEL

**Serbia**

Dragan Balkoski ([dragan.balkoski@ems.rs](mailto:dragan.balkoski@ems.rs) ).

**Croatia**

Srećko Aljinović ([srecko.aljinovic@hops.hr](mailto:srecko.aljinovic@hops.hr))

Zdravko Pamić ([zdravko.pamic@hep.hr](mailto:zdravko.pamic@hep.hr))

**Ukraine**

Yuri Bondarenko, convener

**Slovenia**

To be nominate members from SENG (with new hydro Pump storage) and DEM (planning).

We expect also members from countries with large experiences with Hydro Pump Storages as from Austria, Romania, Bosnia and Hercegovina and Turkey.

**Ad5)** *Discussion on General Rules of Operation*

Chairman explained present CIGRE Rules and new prepared documents in CIGRE on this task. The meeting with all Regions in Paris is foreseen in autumn. The focus of discussion will be more in details about regional activities and coordination between global and regional level.

**Ad6)** *Exchanging information country by country*

**Austria**

Mr. Klemens Reich made presentation about new development plans in Austria with Transmission network up to 2024. Presentation is added to other documents of Kiev 2015 SEERC meeting.

**Czech and Slovak**

Representatives of NC CIGRE prof. Josef Tlustý and Zdenek Muller presented situation in their Nc CIGRE and recent activities.

**Croatia**

Representative of Croatian NC CIGRE Božidar Filipović-Grčić presented activities in 2014-2015. It was clear presented a lot of CIGRE activity in Croatia.

**Italy**

Chairman of Italian NC CIGRE Massimo Rebolini made two presentations:

- Situation of Hydro Pumping Power technology in Italy, and
- Preparation for EXPO CIGRE Workshop, which is going to be in Stresa in August 2015.

All presentations are included on our web site [www.cigre-seerc.org](http://www.cigre-seerc.org) under Kiev 2015 SEERC meeting.

**Montenegro**

Representative of Montenegro Predrag Mijailović presented recent activity, particularly last national CIGRE Conference.

**Serbia**

Very interesting presentation was made by Gojko Dotlić, president of Serbian NC CIGRE with title: *“Large Disturbances during 2014 in Power System of Serbia”*. We learned how Serbian Electric Power system recovered after three catastrophic natural disasters: ice-rain, flooding and thunderstorm with very strong winds. Presentation is attached at SEERC web site.

**Slovenia**

Representatives of Slovenia explained activities in Slovenia in 2015 and recently finished 12th Power Conference with record of attendance (about 600) and participation of exhibitors (34). In 21 committees were presented over 220 papers in three days.

**Ad7)** *Presentation of Large system disturbance in Turkey*

Special invited presentation was from Turkey on last large disturbance in their system. Mr. Tarhan presentation is added to the web site [www.cigre-seerc.org](http://www.cigre-seerc.org).

**Ad8)** *Discussion on Administrative Council Meeting in Malaysia*

Delegates from SEERC countries, who planned to attend CIGRE the Administrative Council meeting in Malaysia, on August 18-19, agreed to make short informal meeting in Malaysia.

At the end of meeting Chairman expressed thanks for excellent organization of meeting and efforts of Ukrainian members of SEERC to lead third meeting smoothly and at the high level of CIGRE meetings. The day after official SEERC meeting, Ukrainian NC CIGRE organized extremely interesting Technical excursion to NPP Chernobyl – 29 years after catastrophic technical disaster in history.

Chairman of SEERC:  
Krešimir Bakić