

# SEERC      Position paper

## On Regional cooperation of CIGRE NCs in South East Europe

### Background

This position paper presents objectives and driving forces for cooperation of several CIGRE National Committees in the Region of Central and South-East Europe.

CIGRE (International Council on Large Electric Systems) is an international forum of experts on electrical power systems, an organisation of science and technologies encompassing different organisations and individual members. Central Office is in Paris. One of the regional branches of CIGRE is **SEERC** (South East European Region of CIGRE), which is trying to increase cooperation between members in Region as for particular technical issues. SEERC was formed according to the statutes of CIGRE and has been endorsed as a region of CIGRE by the Administrative Council of CIGRE at the meeting held in September 2013 in Kazan (Russia). The update list of the Countries which joined SEERC are: Italy (IT), Slovenia (SI), Croatia (HR), Bosnia and Herzegovina (BA), Serbia (RS), Montenegro (ME), Macedonia (MA), Romania (RO), Ukraine (UA), Turkey (TR) and Greece (GR). Next two National Committees as Austria (AT) and Hungary (HU) expressed readiness to join SEERC at coming events. At the moment they have observer's status.

SEERC had its first operative meeting in Roma (Italy) at the Faculty of Engineering of the University "Sapienza" on January 27<sup>th</sup>, 2014. At that meeting the SEERC Management board established **Ad Hoc Advisory Group** with task to prepare **Position paper** on Regional Cooperation and **Questionnaire** with aim to collect opinions on future working programme.

During this SEERC meeting in Rome a Task Force, chaired by Massimo Pompili, with the aim to prepare a report on outlook on the Electrical Power Systems of the SEE area has been created.

Based on the CIGRE method of work all experts' participation in work should be on voluntary principle.

## 1. Introduction

The main aim of the regional cooperation is to increase capacity of knowledge of the technical issues in the range of the CIGRE activities, to support each other in organization of technical events, to support efforts in better regional market designing, to support in developing of new technologies for electricity power sector and development new energy perspectives.

In accordance with CIGRE working methods to incorporate international experts to share best practice and join forces for present and future the Power System, SEERC will follow same methods and adapt its to regional needs. This regional cooperation will be realised mainly through activities of new establish regional working groups and Regional Conferences as well as Workshops.

Importance of CIGRE is free expert thinking and independent opinions out of institutional or national consensus.

## 2. Arguments for cooperation

CIGRE as one of the world oldest international technical organization has a great tradition in Region of Central and South East of Europe. Many Countries have developed CIGRE National Committees as central hub for exchanges information and upgrading knowledge of electric power systems as well as supporting creation of a new standards and recommendations for Power System. SEERC will try to expand positive aspects of CIGRE in SEE Region.

South East European Region comprises more than 200 million of population and has a great potential for faster development in Power engineering sector. SEERC as regional branch of worldwide organization for large electric power systems could be a great technical support. Energy and knowledge are crucial parameters for faster development in today fast changing world. Cooperation of members of SEERC means better possibilities for development of future Power network and equipment.

SEERC representatives stressed the possible themes of common interest between NC CIGRE in region are:

- **Planning and development issues** particularly large investments as undersea AC and DC cables across the Adriatic sea as well as Mediterranean (linking Italy, Greece, Montenegro, Malta, Croatia, Albania, offshore wind parks, etc.),
- **Modernization of network**, implementation of intelligent technologies in power systems, refurbishment of existing power system,
- **Asset management issues considering regional particularities**,
- **South-eastern European electricity market designing**, specific regional issues,
- **Mutual supports and cooperation in the field of new technical standards**,
- **New European energy orientation towards sustainable developments**, regional issues, solar & wind technologies, smart grids,
- **Assessments of Environmental solutions** (legal issues, EMF harmonization, aesthetic solutions, sustainable innovative technology solutions),
- **Dissemination of knowledge** from other advanced regions,
- **Innovative forums in region** using intellectual potentials in SEE.

These themes will be extended in accordance with further needs.

The arguments for establishing SEERC and increases of CIGRE cooperation are obviously potential benefits for SEE members through strengthening of position in mother organization of CIGRE. Stronger position in the Administrative and Steering committees should contribute in making decision processes regarding participation of experts in Technical Committee as well as for future technical events.

### 3. Conclusion

Ad Hoc Advisory Group (AHAG) proposes that SEERC starts with activity, set up WGs and regional Conferences as soon as possible.

AHAG also propose to SEERC Management Board establishing Technical Advisory Group for launching regional working groups and preparation topics for conferences.

As first activity AHAG proposes establishing three regional working groups as follows:

- a) SEERC RWG 01 (2014) – **Regional aspects on creation of NNA for new standard for overhead lines EN 50341** (Convenor: K. Bakic, Slovenia)
- b) SEERC RWG 02 (2014) – **Reactors for HV Transmission networks** (Convenor: M. Babuder, Slovenia)
- c) SEERC RWG 03 (2014) – **Environmental and technical assessment for submarine cables siting issue in Mediterranean area** (Convenor: M. Pompili, Italy)
- d) SEERC RWG 04 (2014) - **Technical and economical features of Hydro Pumped storage power plants (HPSPPs) in power systems** (Convenor: Y. Bondarenko, Ukraine).

ToR's of the RWGs have been approved by the chairman of Technical Committee of CIGRE (Mr. Mark Waldron).

Members of SEERC will propose candidates for RWGs by nominated convenors.

Working Groups will start with work in beginning of 2015.

**Prepared by Ad Hoc Advisory Group:**

**Kresimir Bakic (SI), Massimo Pompili (IT), Claudio Marchiori (ME), Djordje Golubovic (RS), Yuriy Bondarenko (UA). Other contributors: Massimo Rebolini (IT), Andrea Mannocchi (IT), Maks Babuder (SI).**