

Security Coordination Centre Ltd. Belgrade



“10th SE Europe Energy Dialogue”

Session II: The Changing Regional Energy Landscape and Key Policy Issues

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Table of content

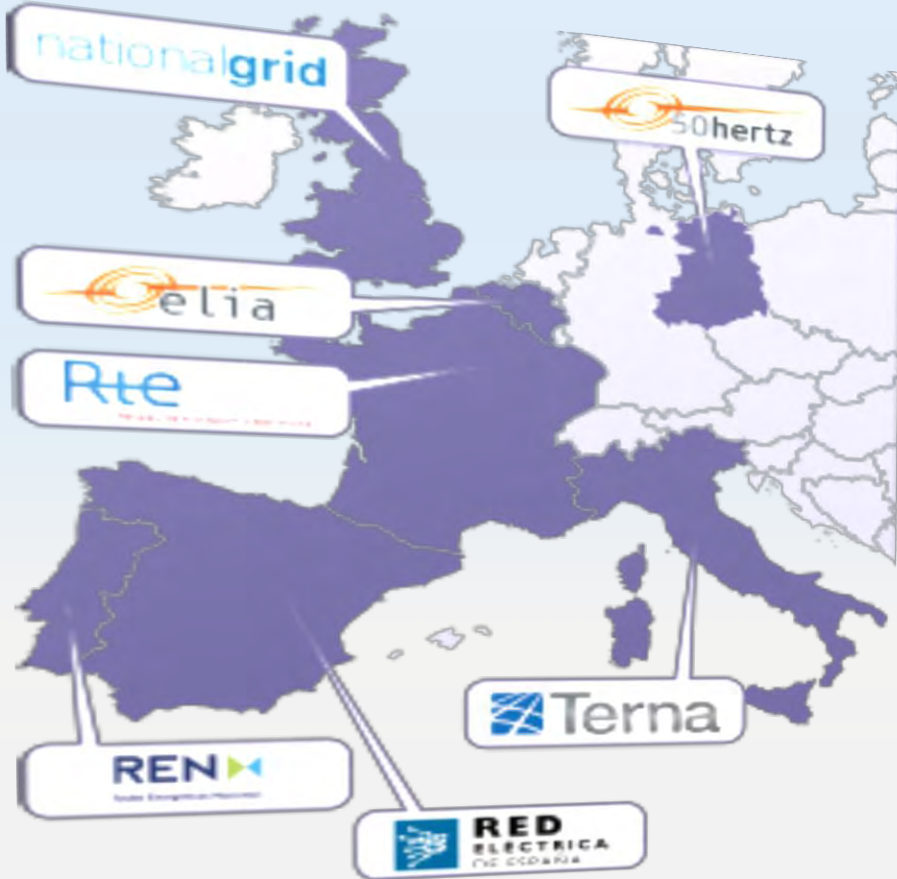
- ❖ **SCC - Brief company history and functions**
- ❖ **Regional and Pan-European TSOs - RSCs Cooperation**
- ❖ **Actual Services and main activities**
- ❖ **SEE as an electricity region**
- ❖ **Regional and Pan-European TSOs - RSCs Cooperation**
- ❖ **Future development**

SCC - Brief company history and functions

- ❖ April 2015: EMS, CGES and NOSBiH established SCC as the first RSC(I) in SEE, based in Belgrade.
- ❖ 1st of August 2015: SCC started operational activities
- ❖ RSC perform services for TSO-s on the following way:
 - TSOs provide input data and deliver them to the RSC;
 - RSC creates models and perform analyses, and delivers the models and results of analyses to TSO-s;
 - TSOs retain responsibility for the operational decisions, i.e. based on real-time conditions in their systems TSOs make the final decisions;



RSCs in synchronous area Continental Europe



CORES0 (Brussels)

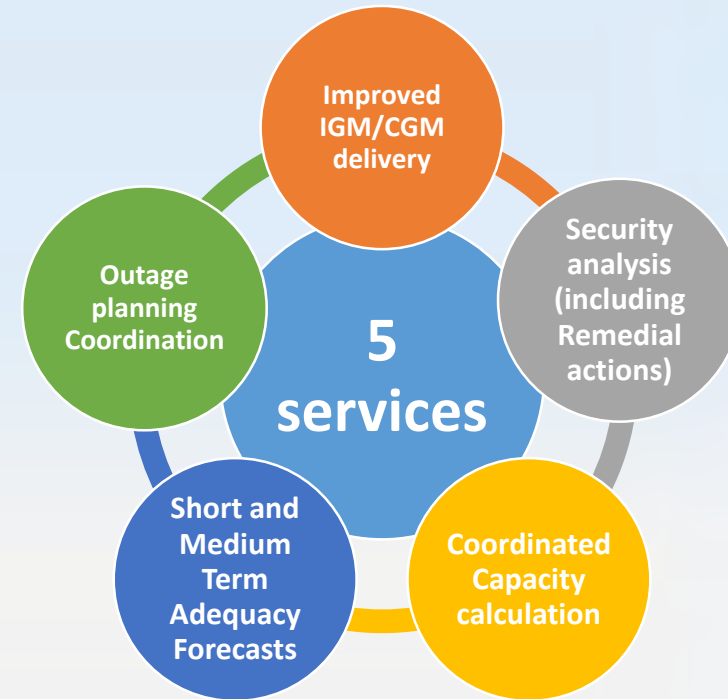


TSCNET (Munich)



Actual Services and main activities

- 1. Validation of DACF and IDCF Continental Europe (CE) IGMs/creation and delivery of CE CGMs**
- 2. N-1 security analysis for TSOs founders of SCC**
- 3. Dry Run of daily NTC Calculations for TSOs founders of SCC**
- 4. Contribution to SEE Maintenance Group through model creation and N-1 security analysis in 2016 and 2017**
- 5. Participation in ENTSO-E projects SMTA & OPC**



SEE as an electricity region



Operational and planning experience during the period of 2nd UCTE synchronous zone (more than ten years)



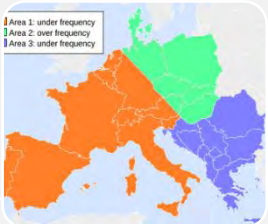
SEE Regional group for maintenance coordination



Regional SECI group for planning model development



Coordinated Auctioning Office in South East Europe – SEE CAO Podgorica



Blackout in November 2006



Regional and Pan-European TSOs - RSCs Cooperation



- ❖ **Recognition of SCC by ENTSO-e and other RSCs:**
 - In daily RSC operational activities
 - In other RSC-TSO relevant projects under development
- ❖ **Cooperation between all RSCs on Pan-European level**
 - Daily operational cooperation (Coreso, TSCNET, SCC...)
 - Development of common methodologies and SWs for SMTA and OPC services through ENTSO-E project groups
 - Other RSC-TSO relevant projects (CGM, CGMA, ATOM, OPDE, CGMES,...)
 - Exchange of experiences



**Baltic
RSC**



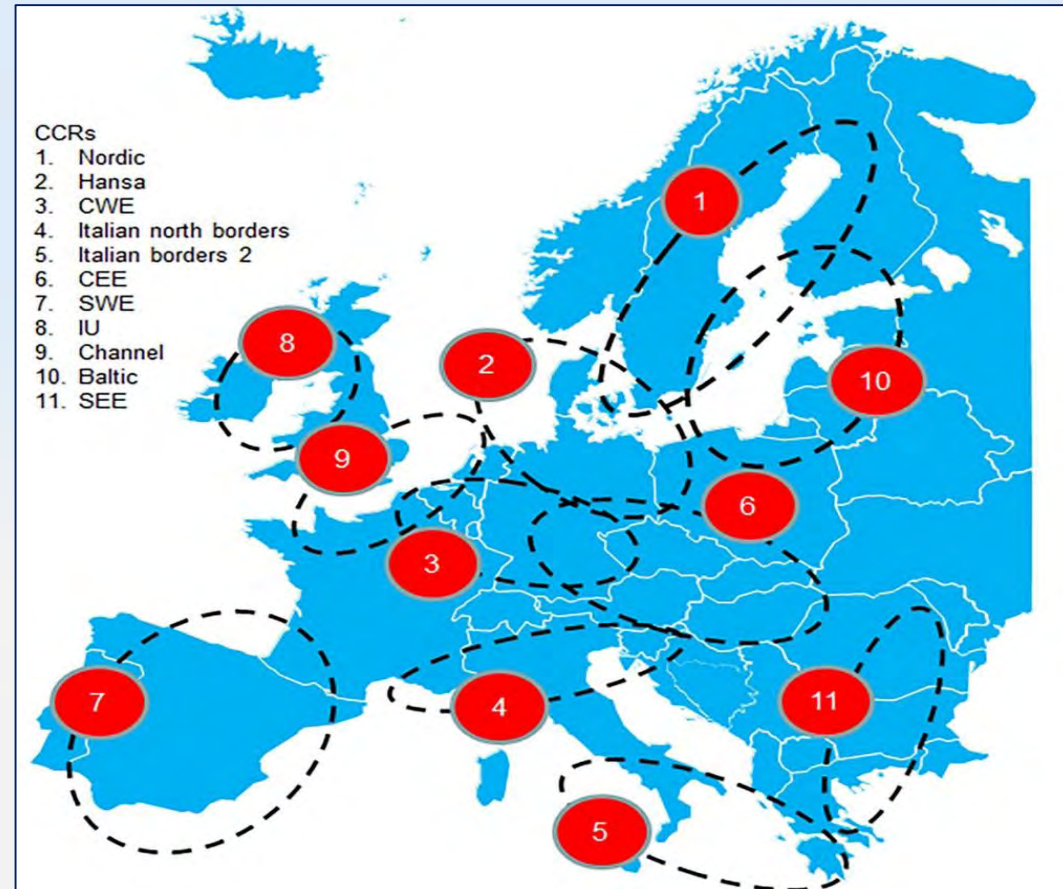
**TSCNET
Services**

**Nordic
RSC**



Coordinating Capacity Calculation in SEE

- ❖ **Specificity of SEE:**
 - EU TSOs (mandatory implementation of CACM and FCA)
 - NON-EU TSOs ("early implementation" of CACM and FCA?)
- ❖ **SEE Coordinated Capacity Calculation methodology and business process**
 - to be defined and developed.



Future development

- ❖ **SCC plans to develop the following services:**
 - **Upgrade of software tool for IGM validation and CGM merging process according to latest ENTSO-E EMF (European Merging Function) requirements.**
 - **Extension of Security analysis with Remedial actions functionality - SCC upgraded software tool with RA functionality, testing is on-going.**
 - **Coordinated Capacity Calculations - SCC has developed initial version of software module for NTC for 24 hours per day, testing is on-going.**
 - **Outage planning - SCC actively participates in development of common pan-European methodology.**
 - **Regional Adequacy Assessment for SEE - Draft methodology created by SCC is highly rated by Coreso (leader of SMTA project) and TSCNET, further development is on-going.**

Thank you for your attention!



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