

20th System Operation European Stakeholder Committee (SO ESC)

03 March 2022, 14:00-16:00

Online meeting

Draft Minutes

| Participants | | |
|--------------|-------------------|---------------------|
| Uros | Gabrijel | ACER (Chair) |
| Eric | Dekinderen | VGB Powertech |
| Stefano | Bracco | ACER |
| Maria | Barroso Gomes | ACER |
| Pavla | Erhartova | Europex |
| Florentien | Benedict | CEDEC |
| Freddy | Alcazar | EUGINE |
| Ton | Geraerds | VGB Powertech |
| Gunnar | Kaestle | COGEN Europe |
| Klaus | Oberhauser | VGB Powertech |
| Mike | Kay | GEODE |
| Gonzalo | Fernandez Costa | DG ENER |
| Luca | Guenzi | EUTurbine |
| Marco | Pasquadibisceglie | ARERA |
| Marc | Malbrancke | CEDEC |
| Markus | Watscher | Eurelectric |
| Michael | Wilch | E.DSO |
| Thomas | Holzer | BnetzA |
| Rickard | Nilsson | Europex |
| Goran | Drobjnak | EASE |
| Stein | Ovstebo | IFIEC |
| Thierry | Vinas | Eurelectric |
| Cherry | Yuen | ENTSO-E / Swissgrid |
| Karolina | Daszkiewicz | ENTSO-E |
| Daiga | Dege | ENTSO-E |
| Tahir | Kapetanovic | ENTSO-E / APG |
| Sarah | Soliman | ENTSO-E |
| Victor | Charbonnier | ENTSO-E |
| Luca | Ortolano | ENTSO-E / Terna |
| Bernard | Malfliet | ENTSO-E / Elia |
| Rafal | Kuczynski | ENTSO-E / PSE |
| Christophe | Druet | ENTSO-E |
| Laurent | Rosseel | ENTSO-E / RTE |
| Knud | Johansen | ENTSO-E / Energinet |

1. Opening

1.1. Review of the agenda and approval of minutes

The Chair (Uros Gabrijel) opens the meeting. The agenda is confirmed with one additional topic, DFD mitigation, following suggestion from Eurelectric (Thierry Vinas) and COGEN (Gunnar Kaestle).

The minutes of the last meeting are approved.

1.2. Review of Actions

ENTSO-E (Cherry Yuen) presents the pending actions.

2. Update on implementation actions at pan EU level

ENTSO-E (Cherry Yuen) presents the updates on the implementation actions.

- ENTSO-E published the first biennial progress report on Probabilistic Risk Assessment methodology development
- ACER published a report on Network Code Emergency & Restoration implementation monitoring
- ENTSO-E submitted the proposal for RCC task on Training and Certification of Staff; ACER invites stakeholders to provide comments via this [link](#)
- TSOs are assessing the impact of the implementation of the Coordinated Security Analysis methodology (cf. amendments art. 21 & art. 27) in Capacity Calculation Regions
- Operational agreements for the synchronisation of Ukraine and Moldova: there are additional information provided on ENTSO-E website about the latest developments. COGEN asks if the synchronisation process will be discussed in the MESC too and what is the timeline for this project. ENTSO-E explains that Ukrenergo requested an emergency synchronisation to Continental Europe last week. A Task Force will produce a list of technical preconditions in order to manage this synchronisation in a shorter time. The main concerns are related to stability management. Coordination is ongoing with European Commission, ACER and NRAs to understand the impact on the regulatory framework of the associated measures.

3. Cybersecurity Network Code - Next steps

ACER (Stefano Bracco) updates SO ESC on the ongoing developments. ACER Expert Group is investigating governance implications for the implementation of the NC and necessary alignment with relevant provisions of the Network Information System Directive II. It is setting principles and list of entities concerned by the future Terms, Conditions and Methodologies (TCM) to be developed.

Cogen (Gunnar Kaestle) asks if the final report from the 2013 APG loss of SCADA event has been considered as case study on how to survive a loss of function in the IT network. ACER will check this with the experts.

Eurelectric (Thierry Vinas) asks which entities would be concerned and if the scope of the NC CS may change accordingly. He also asks when the public consultation will be launched and if stakeholders will be further associated to the drafting beyond the consultation. ACER explains that the scope will not significantly change as ACER sees no major discrepancies. There are however certain provisions whose interpretation need to be clarified. He further explains that there will be no public consultation, but ACER has the legal obligation to consult all relevant stakeholders i.e. ACER will liaise in priority with the parties who were involved so far in the drafting of the proposal (e.g. ENTSO-E, EU DSO Entity etc.).

4. Report on CGM Implementation – transition go-live to implementation

ENTSO-E (Markus Besser) provides an update on the implementation of the Common Grid Model (CGM). He reminds the SO ESC what are the five Regional Security Coordinators (RSC) services. He explains what the technical foundations for their delivery to TSOs are, i.e., CGM business processes and associated timeframes (different intervals for the consolidation of Individual Grid Models from year-ahead to intraday). He clarifies that at the moment no RSC service uses the CGM although the technical capability exists. Despite this, he explains that the Go-live of CGM already delivers significant benefits.

5. Network Code Emergency & Restoration (NC E&R) implementation monitoring

ENTSO-E (Rafal Kuczynski) presents a summary of the status of implementation of NC E&R for each methodology. ENTSO-E is currently assessing the analysis and conclusions of ACER monitoring report and will provide an update to the next SO ESC.

COGEN (Gunnar Kaestle) asks clarification about the status of TCM submission. ACER invites stakeholders to consult Section 3.3 of ACER NC ER implementation monitoring report which covers the terms and conditions to act as a defence service providers ([link](#)).

VGB Powertech (Eric Dekinderen) asks clarification about the list of Significant Grid Users (SGU) to be impacted by emergency and restoration measures. ENTSO-E clarifies the status “NA - not applicable” means that national agreement/implementation is already in place and therefore no need for a separate methodology submitted to NRAs for approval.

6. Resilience of the EU generation infrastructure to weather-related hazards

ACER (Uros Gabrijel) explains that NERC and FERC produced a report about the disconnection of power generators during the Texas power crisis in 2021. ACER contacted ENTSO-E to provide information about measures in place to handle extreme weather hazards. Risk-preparedness plans take into consideration these aspects but not all TSOs are necessarily informed about resilience measures implemented by power generators.

VGB Powertech (Eric Dekinderen) mentions that Australia has an interesting case study of black-out triggered by the disconnection of wind generators before a storm which the regulator and operator had not anticipated.

COGEN (Gunnar Kaestle) explains that the Texas event was also linked to the unavailability of dispatchable thermal power plants, not only wind turbines generators.

Action: ACER will circulate a survey towards stakeholders in order to collect information about these measures and the topic will be further discussed at the next SO ESC in June.

7. Status update on ENTSO-E investigations on 2021 grid events

ENTSO-E (Laurent Rosseel) updates SO ESC members about the investigations of the three significant grid incidents that took place in Europe in 2021:

- 8 January (Continental Europe): he presents the root causes for the event and the 22 recommendations identified by the expert panel. The implementation of these recommendations will be reported to the European Commission, ACER and National Regulatory Authorities every quarter.
- 17 May (Poland): the expert panel will finalise its work by 15 March 2022 and the final report will be published on 14 March 2022. The recommendations focus on the strategic maintenance of infrastructure.
- 24 July (Iberian Peninsula and southern France): a factual report has already been published on ENTSO-E website ([link](#)) and the final report will also be published on 14 March 2022. 5 recommendations were identified and notably on notification of fire alerts to the TSO.

COGEN (Gunnar Kaestle) asks if the generally higher load on the transmission system plays a role in these disturbances including system splits. ENTSO-E (Laurent Rosseel, Tahir Kapetanovic) acknowledges there are situations where the infrastructures are used to the limits and this can be a common circumstance, but this is not necessarily the root cause of the incident.

8. AOB

ENTSO-E (Luca Ortolano) provides a short update on FCR LER

Deterministic Frequency Deviations (DFDs)

ENTSO-E (Luca Ortolano) informs the SO ESC that ENSTO-E is investigating the specific large/extreme frequency deviations, which are impacting Limited Energy Reservoirs.

COGEN (Gunnar Kaestle) asks if statistics are available about frequency alerts. ENTSO-E explains that the ICS report can provide information on this. He further presents his concerns with regards the DFD and to what extent the switch to the Imbalance Settlement Period of 15 min could help smooth this phenomenon. Bernard Malfliet explains that the ISP is not too relevant but rather the market time unit (MTU).

ENTSO-E (Bernard Malfliet) explains the mitigation measures to DFDs in the different load frequency blocks in Continental Europe. Recurring measures include the implementation of shorter market time unit (15') in the day-ahead and intraday timeframes, the introduction of ramping requirements for generators and changes to the sizing and procurement of reserves.

COGEN (Gunnar Kaestle) asks what the reasons for persistent DFDs could be despite the move to 15 min market time unit. ENTSO-E explains that these measures are being implemented and should produce their effects soon.

Eurelectric (Thierry Vinas) asks if his questions (mentioned in the Actions earlier on) were already addressed. ENTSO-E (Cherry Yuen) responds that for the first question the DFDs measures have been presented. For the second one one can find the annually updated frequency quality parameters/criteria (including those to mitigate DFDs) in Section B and C in the LFCR policy document via the link provided in the slide.

Action: ENTSO-E will check if COGEN (Gunnar Kaestle) and other stakeholders (e.g. WindEurope) can be invited as guest to the internal group within ENTSO-E in charge of analysis the "wind eclipse".