

## 14<sup>th</sup> System Operation European Stakeholder Committee (SO ESC)

SO ESC, Wednesday, 16 September 2020 from 13:30-16:30

GotoWebinar

### Draft Minutes

Participants		
Srinivasa Radju	ADDALA	EUGINE
Freddy	ALCAZAR	EUGINE
Dan-Eric	ARCHER	SolarPower Europe
Maria	Barroso Gomes	ACER
Florentien	BENEDICT	CEDEC
Alberto	BRIDI	CEDEC
Francesco	CELOZZI	ENTSO-E
Ana	CIGARAN ROMERO	ENTSO-E
Emiliano	DEGASPERI	EASE
Eric	DEKINDEREN	VGB Powertech
Alexander	DUSOLT	ENTSO-E
Mohamed	EL JAFOUFI	ENTSO-E
Inés	ENCABO CACERES	REE
Pavla	ERHARTOVA	Europex
Gonzalo	FERNANDEZ COSTA	EC
Uros	GABRIJEL	ACER, Chair
Ton	GERAERDS	VGB Powertech
Luca	GUENZI	EUTurbines
Knud	JOHANSEN	ENTSO-E
Gunnar	KAESTLE	COGEN

Mike	KAY	GEODE
Vasiliki	KLONARI	WindEurope
Rafal	KUCZYNSKI	ENTSO-E
Derek	LAWLER	ENTSO-E
Mark	MALBRANCKE	CEDEC
Pilar	MUÑOZ-ELENA	ENTSO-E
Klaus	OBERHAUSER	VGB Powertech
Luca	ORTOLANO	ENTSO-E
Stein	ØVSTEBØ	IFIEC
Marco Savino	PASQUADIBISCEGLIE	ARERA
Yannick	PHULPIN	Eurelectric
Andres	PINTO BELLO	SmartEN
Walter	SATTINGER	ENTSO-E
Anneli	TEELAHKT	The European Association for Storage of Energy - EASE
Ioannis	THEOLOGITIS	ENTSO-E
Markus	WATSCHER	Eurelectric
Marie	WOITHE	ACER

## 14<sup>th</sup> SO ESC

### 1. Opening

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#### 1.1. Review of the agenda

Eric Dekinderen (VGB) asks to add a topic under the AOB concerning the Risk Preparedness Report.

Agenda approved after the addition on the requested item under AOB

#### 1.2. Review and approval of minutes from December meeting

Minutes from 03<sup>rd</sup> June 2020 are approved

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### 2. Update on implementation actions at pan EU level

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Ana Cigaran Romero (ENTSO-E) presents the slides available [here](#) (topic 2) including the status of the actions and the Pan European or regional deliverables 2020 for SOGL and CEP.

The Chair confirms that concerning action 11 ACER has issued a questionnaire among regulators to collect the information on national implementations with intention to publish a dedicated implementation monitoring report.

Erik Dekinderen (VGB) have a question on Risk Preparedness Final Report and its public availability. The Chair clarifies that since this report include the crisis scenarios and sensitive information the report will not be made publicly available. It will be distributed only among TSOs, RSCs and Electricity Coordination Group. The chair adds that the report does not include the plans, but only the scenarios. Erik Dekinderen (VGB) accept the confidentiality of the report.

Florentine Benedict (CEDEC) concerning KORR workshop and who is organizing it. Ana Cigaran Romero (ENTSO-E) answers that the workshop will be organized by Ines Encabo within the ENTSO-E Steering Group Operational Framework.

Yannick Phulpin (Eurelectric) raise a question on emergency and restoration risk preparedness scenarios. He asks if the situation experienced during the COVID-19 period (i.e. very low levels of downward reserve) are part of the regional scenarios taken into consideration. Ana Cigaran Romero (ENTSO-E) answers that TSOs are reporting monthly the impact of the COVID-19 situation on the operation of the power system. However this is not included in the Risk Preparedness report.

No additional questions

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### 3. System Operation Guideline

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#### 3.1. Cost Benefit Analysis for FCR providers by Limited Energy Reservoirs: status update

Luca Ortolano (ENTSO-E) presents the slides available [here](#) (topic 3.1).

Yannick Phulpin (Eurelectric) asks if there have been any further simulations and if they have been based on the same data discussed in March. Luca Ortolano (ENTSO-E) confirms that further simulations have been run, considering an activation time of the aFRR of 5 minutes.

#### 3.2. Information on exchange/sharing of the reserves

Mohamed El Jafoufi (ENTSO-E) presents slides available [here](#) (topic 3.2).

Gunnar Kaestle (COGEN) raise a question on slide 16 on whether the synthetic inertia will be covered in this survey. Mohamed El Jafoufi (ENTSO-E) clarifies that synthetic inertia is not part of this survey.

Eric Dekinderen (VGB) remarks that synthetic inertia is something different and it is not part of the reserves (as per the "reserve" definition of SOGL). The Chair confirms this.

Erik Dekinderen (VGB) raise a question on slide 16 and whether the sharing of reserves can happen between subjects other than the TSO. Mohamed El Jafoufi (ENTSO-E) clarifies that the term “others” is used to group the bilateral agreements between the operators. Erik Dekinderen (VGB) asks also if under the “others” term are grouped also the users available to decrease their loads in emergency situations. Mohamed El Jafoufi (ENTSO-E) confirm that the term “others” reunites all the cases which do not fall under the classic agreements inter-TSO on the sharing of the reserves.

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#### **4. CGM Programme Implementation Update**

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Derek Lawler (ENTSO-E) presents slides available [here](#)

Federico Lanzellotto (ENTSO-E) presents the slides concerning the planning related to the CGM services

Yannick Phulpin (Eurelectric) asks if the questions from Eurelectric delivered in June has been answered. In case it has not been answered he refrains the question, asking to clarify which service will be available at the end of the development process. Federico Lanzellotto (ENTSO-E) answers clarifying that at the beginning of 2022 it will be delivered the first coordinated capacity calculation tools and CCR will start using and it is expected that many CCRs should be using the service by the end of 2022.

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#### **5. NC ER Implementation Update**

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##### **5.1. Update on TCM Status according to Art 4**

Rafal Kuczynski (ENTSO-E) presents the slides (available [here](#))

Yannick Phulpin (Eurelectric) asks if the information is available on ENTSO-E website in order to compare the data. Rafal answers that information is in the [NC ER Active Library](#). However, not all the members have answered the survey and English version is not always available. Nevertheless, national documentation is available on the national website.

Florentien Benedict (CEDEC) asks if it is possible to contact Rafal Kuczynski (ENTSO-E) in future in case there will be additional questions on this topic. Rafal Kuczynski (ENTSO-E) confirms his availability to answer future questions.

Erik Dekinderen (VGB) asks Rafal about the difference between France and Germany in the list of high priority Significant Grid Users (SGUs) and if ENTSO-E has the intention in the future to investigate why there is this difference. Rafal answers that at this stage it is not foreseen to investigate the status of the list. However, those lists have been shared and agreed with the national regulators.

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#### **6. Information on Low Frequency Pump disconnection and energy storage units**

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##### **6.1. Why low frequency pump disconnection is triggered at different frequencies across Europe**

Walter Sattinger (ENTSO-E) and Rafal Kuczynski (ENTSO-E) present the slides (available [here](#), topic 6)

Erik Dekinderen (VGB) asks a question about the base of this assessment. He thought that the activation settings for the pumping systems were different in the various European countries (i.e. Germany and France) and if this is the case, he wonders about the need for harmonization of these settings. Walter confirms that in relation to the event of the 10<sup>th</sup> of January the activation of the countermeasures happened only in France given also to the fact that industrial loads were connected throughout settings allowing the disconnection near to the limit of 49.8 Hz. In addition, Walter remarks that the issue should be seen from a system wide point of view, until the power system remains together the frequency remains the same and consequently the coordination will have to be performed on a synchronous area level.

Erik Dekinderen (VGB) adds another question concerning slide 43 on whether the TSOs fear possible inter-area oscillations due to the different activation times of pump-storage and interruptible loads. Walter Sattinger (ENTSO-E) answers that given the fact that the loads and pumping systems are spread along the territory and the parameters of the system (i.e. inertia) the oscillations are damped. However, the simulations are still being run and results will be delivered by the end of the year.

Gunnar Kaestle (COGEN) comments about the inter-area oscillations topic by saying that to study the phenomena you don't need to consider all the systems disconnecting at once in the same area. Considering the same density of disconnecting systems, the problem of the inter-area oscillations should not be that big.

Gunnar Kaestle (COGEN) also asks a question on whether it has been considered in the simulations both the absolute deviation from the frequency value (threshold for disconnection) together with the RoCoF. Moreover, he asks if the disconnection at 49,2 Hz is a mandatory service or it is a payed one. Walter agrees with this consideration. In relation to the question on RoCoF, Walter answers that some countries are already considering both principles (absolute frequency and RoCoF). It should not be considered RoCoF alone, but a mix of those principles. Walter also clarifies that the disconnection at 49.8 – 49 Hz is mandatory (obligatory installation on the pumps storage systems of the related equipment).

Stein Ovstebo (IFIEC) remarks that industrial loads can contribute more in the balancing of the system and asks Walter how the TSOs see the contribution from this type of loads in the future practices to balance the disturbances. Walter agrees that the industrial loads could be considered more in the future, however from the TSO point of view could be challenging to push an increase in the participation of the industrial loads to the balancing measures. Rafal complements the last point by saying that industrial loads discussed in Walter's presentation are associated to remedial action in Normal and Alert system state, while for the Emergency system state the NC ER allows for disconnecting pumping systems and storage acting like loads followed by LFDD. In addition, besides the frequency behaviour also the voltage contribution of the loads in Alert and Emergency should be considered and how these can contribute to fight voltage deviations (which are the most severe in some cases). Rafal concludes by saying that the countermeasures should be agreed also with DSOs given the amount of generation connected at distribution levels.

Klaus Oberhauser (VGB) comments slide 45 (on future simulations), saying that the cases in which the pumps are barely involved in the shedding actions reflect a market situation of high prices, during which pumps operates in pumping mode functioning in LFSM-U and contributing to the system stability. Walter Sattinger (ENTSO-E) answers that this is correct in theory, but those units should be assumed as participating in the ancillary market with their services, however this depends on the value of the frequency. Their participation to the balancing actions is mandatory only below 49.8 Hz. Klaus Oberhauser (VGB) comments that in Continental Europe the pumping should be able to participate to the remedial action starting from 49.8 Hz (RfG). Walter Sattinger (ENTSO-E) specifies that this is possible only if their operational point allows them to do that. This means that if we assume that the market conditions favour the production of the full power (high prices), in case of need to participate to the remedial actions (but not an emergency situation in applying mandatory participation) it would be impossible to ask for additional power to stabilise the system as those units are most probably already operating at their maximum operation point. For this reason, the pumping systems have not been considered in the right graph of slide 45.

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## **7. AOB –**

The item on Risk Preparedness Report proposed by Erik Dekinderen (VGB) has been covered during the presentation of topic 2.

Next meeting scheduled for the 9 of December 2020.

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## **8. Actions**

- 1) ENTSO-E to propose dates for 2021 meetings before the next meeting.
- 2) ENTSO-E to send the invitation to the KORRR online workshop (Q4 2020 tentative date)