

System Operation European Stakeholder Committee

Materials for meeting 10 December 2024



Agenda

Subject	Timing	Lead
1. Opening <ul style="list-style-type: none">• Review of the agenda, approval of last meeting minutes• Review of actions	13.00 – 13.10	Uros Gabrijel, ACER Cherry Yuen, ENTSO-E
2. Update on the implementation actions at pan-EU level	13.10 - 13.20	Cherry Yuen, ENTSO-E
3. Report on CGM implementation	13.20 - 13.35	Habir Paré, ENTSO-E
4. EC feedback on CACM applicability meeting	13.35 – 13.45	EC
5. Updates on Tmin FCR with LER (final CE TSOs proposal)	13.45 – 14.00	Luca Ortolano, ENTSO-E
6. Updates from DSO Entity	14.00 - 14.15	Florentien Benedict, DSO Entity
7. AOB <ul style="list-style-type: none">• Meeting dates for 2025	14.15 – 14.30	

1. Review of actions

ENTSO-E, Cherry Yuen

1 Review of actions SO ESC

ACTION	Comments	STATUS
ENTSO-E will present the next update on DFD at the meeting either in June or September.	Materials to be provided separately after RGCE approval.	Ongoing
The European Commission will provide additional information on their inertia study at the next meeting.	Update to be provided when the project starts	Ongoing
Implementation of Art.39 of SO GL and follow-up of RoCoF discussion: ACER will liaise with GC and SO ESC members to establish the Terms of References of the new Expert Group. (topic: a macro-economic study is provided by TSOs for adapting system operators to a net zero emissions power system)	EC will initiate a consultation on a forthcoming study which the new EG under GC and SO ESC will aim to support	Ongoing
Wind Eclipse project: Stakeholders are invited to contact ENTSO-E if they have relevant data or feedback to provide. ENTSO-E will follow-up bilaterally with these stakeholders.	Some SHs contacted EE.	Ongoing

2. Updates on the implementation actions at pan-EU level

ENTSO-E, Cherry Yuen

Pan-European or regional deliverables 2024: SOGL/NCER

SO GL
(Article 15)

Annual report on operational security indicators (for year 2023) published: [link](#)

SO GL
(Article 16)

Annual report on load-frequency control (for the year 2023) published: [link](#)

SO GL
(Article 17)

Annual report on regional coordination assessment (for year 2023) published [link](#).

3. Report on CGM implementation

ENTSO-E, Habir Paré

Achievements and Challenges

Main achievements during the period (August 2024 – November 2024)

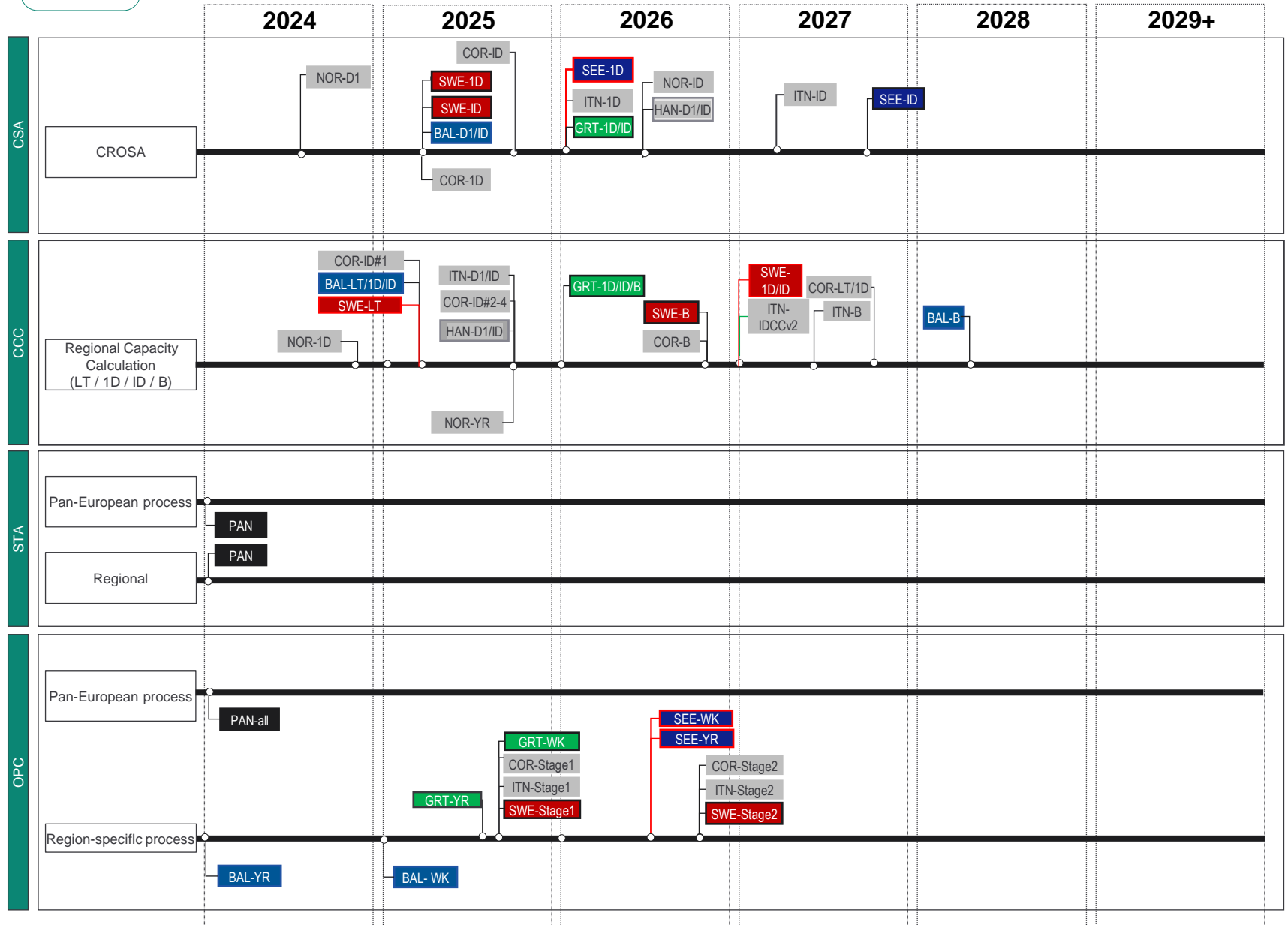
1. **CGM action plan:** Activities listed in the CGM Action plan have progressed and decision proposals for next steps are finalised. Major focus has been put on the improvement of IGM and CGM quality and the internal organisation of ENTSO-E.
2. **Frequent IOPs and RCC weekly calls and RCC debugging sessions** supporting provision and testing of complete CGMs including complete set of delivered IGMs. 1. → **Success on including about 30 of 32 published IGMs into merged CGMs**
3. **Approval of Quality of CGMES Dataset & Calculations (QoCDC) version 4.1:** document providing a set of rules to ensure successful merging of IGMs and CGMs.
4. **Extension of OPDE access to other operational services:** Additional requests by RCCs and CCRs for use of OPDE for data exchange and management enabling regional operational services.

Main challenges identified (August 2024 – November 2024)

1. **Extension of OPDE access to other operational services:** Ensure full readiness of OPDE for all Operational services (Business and Technical “Performance” readiness)
2. **Ensuring operational quality** of the IGMs and CGMs to be usable for other operational processes.
3. **CGM action plan:** Availability of active TSO participation to address all the listed actions in a timely manner



SERVICE ROADMAP Updated in September 2024



REGIONS

- BAL = Baltic
- COR = Core
- GRT = GRIT
- HAN = Hansa
- ITN = Italy North
- NOR = Nordic
- PAN = Pan-European/common delivery
- SEE = South East Europe
- SWE = South West Europe

TIMEFRAMES

- LT = Long Term (YR, MO)
- YR = Year-Ahead
- WK = Week-Ahead (3D to 7D)
- 2D = Two days-ahead
- 1D = Day-Ahead
- ID = Intraday

NB

- Nordic CSA based on Nordic CGM with a simplified version without RAO; full ROSC scope to be added later
- Central Europe (CE) CCR provision of the methodology by the end of 2024

	Grey = no update provided in September 2024 or dates being re-assessed
	Red outline = delayed
	Green outline = anticipated

Important Note:
This summary is based on the latest input available and may be an update to any version that is currently in review/awaiting written voting approval. Any such updates will be incorporated into the next version issued.

4. EC feedback on CACM applicability meeting

EC

5. Updates on T_{min} FCR with LER (final CE TSOs proposal)

ENTSO-E, Luca Ortolano

CBA rerun activities

Background

- The TSO have been requested to re-run the CBA LER using **more recent input data**.
- The report on Updated input data and assumption for CBA LER has been **publicly consulted** from 31 March to 31 May 2024. A dedicated **workshop with Stakeholders** has been held on May 8th to illustrate the documentation.
- The CBA LER with updated input has been performed and a report with the main findings has been drafted. The results of the new run of the CBA shows that **TminLER = 30 min** ensures the lowest system costs in the considered scenario.
- The report regarding the findings of the CBA and the TminLER proposal has been approved by RG CE on 24 September and then submitted for public consultation from 30 September, for one month. A dedicated **workshop with Stakeholders** has been held on 24 October to illustrate the documentation. The report with the replies to SHs' feedback will be shared with ACER/NRAs representatives.

Update on TminLER proposal

The final TminLER proposal has been **unanimously approved** by RG CE on 26 November. The proposal provides a **TminLER = 30 min, with 1 year of interim period.**

The 30 min requirement shall apply to LER whose **first prequalification** takes place **after the end of the interim period** or where a **re-assessment of qualification** according to Article 155(6)(b) or (c) SO GL is necessary after the end of the interim period.

LER prequalified before the interim period will be subject to the new requirement at the moment of their **first re-assessment of qualification** (as per SO GL Art.155(6)(a)) after **10 years** from the end of the interim period.



Next steps

- Submission of the **new proposal for the Tmin LER** by the RG CE TSOs to CE NRAs by December 31st

6. Update from DSO Entity

Florentien Benedict, DSO Entity

A worker in a yellow hard hat and safety vest is carrying a large solar panel on a roof. The roof is covered with blue tiles and solar panels. The background shows a clear sky and some trees.

**EU DSO Entity
Expert Group Existing Network Codes
Update
ESC SO 10th December 2024**

**Florentien Benedict
Chair Expert Group Existing Network Codes**

System Operations

- NC Demand Response
 - Involved in the amendments for SO GL
 - Involved in the amendments for NC DC
- Real time
- KORRR
- GLDPM

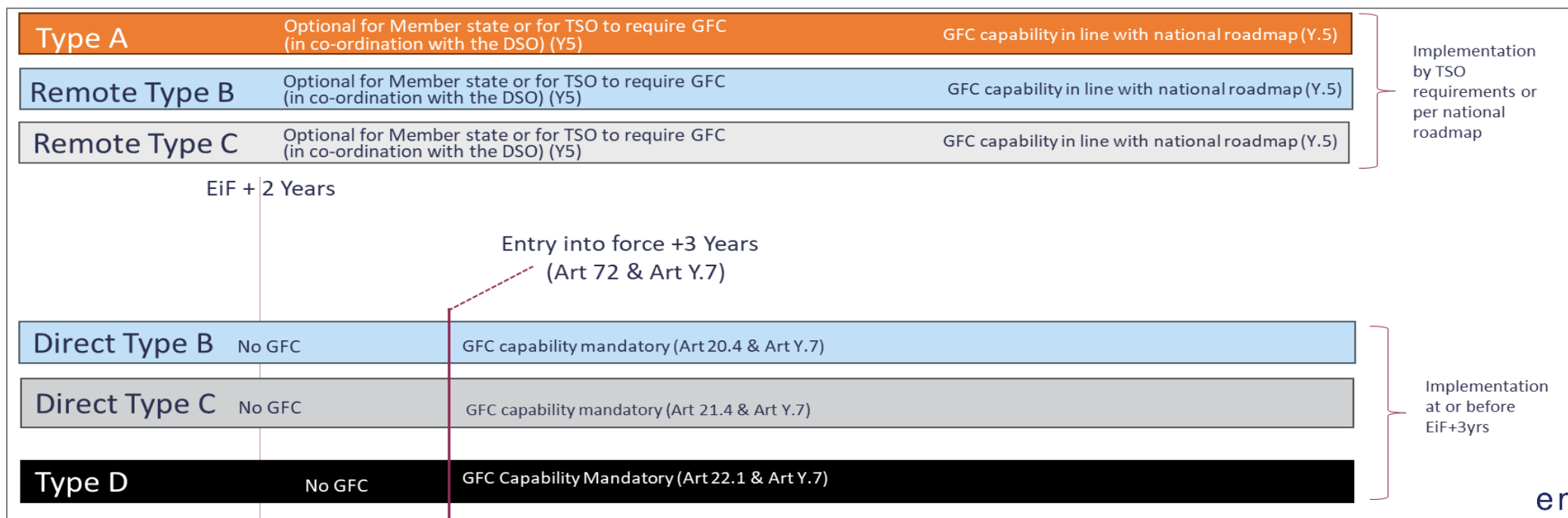
Update main issues EU DSO entity

- Although the issues are related to the Net Codes grid connection
- We prefer to inform you about the position of the EU DSO Entity
- In the end relation with System Operations / data exchange / control area / real-time data, with possible data aggregation

Grid Forming

The Expert Group has argued for a balanced position for the DSOs, which means:

- i. A clear and unambiguous legal text for Grid Forming
- ii. A legal requirement for a national Roadmap
- iii. Below 110kV Grid Forming in DSO grid will only be mandatory if it is proven by the TSO, mitigations against adverse technical effects proposed-by-the DSO and agreed by the NRA or member state



Note: Graphic as per ACER proposal- visuals on the Entry in Force and National Roadmaps per PGM types

Heat Pumps and EVs treatment (e.g. Certification Process)

- Expert group will monitor the implementation of the mandatory certification of EVs, EVSE and Heat Pumps:
- Certification of EVs, EVSEs and Heat Pumps should be easy for both customers (and manufacturers) and DSOs to implement.
- Expert group will help ensure that all DSOs understand the implications of mandatory certification and what actions DSOs need to take

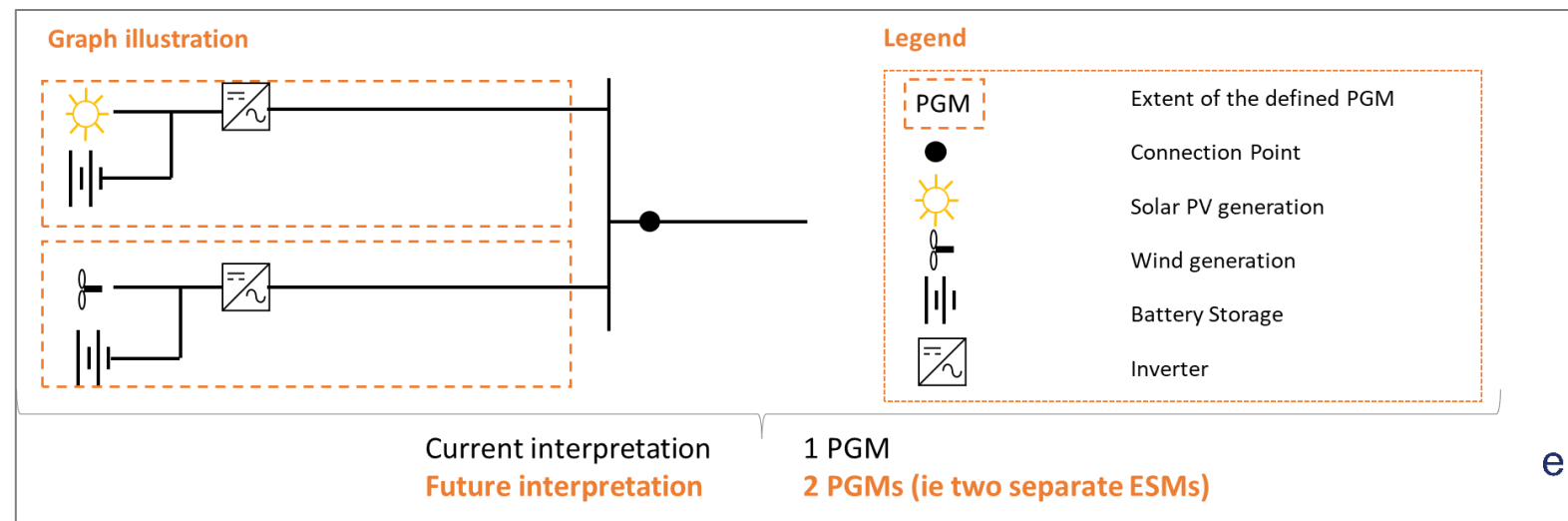


Clarity on Compounding/ Aggregation rules at (DSO) connection level

- Recognizing the extent of existing legal challenges on compounding, the Expert Group has argued for:
 - Clear legal rules for compounding Power Generating Modules behind a single connection point.
 - Clear legal rules for combinations of Electricity Storage Units (batteries) and Power Generating Units (Wind/Solar) behind a connection point

Example of a Compounding case

Note: Interpretation per DSO Entity



Questions?

Please contact us!



7. AOB

7.1 Meeting dates for 2025

Meeting dates for 2025

- **March 19 PM** - Wednesday - at ENTSO-E in Brussels
 - GC ESC Thursday 20
- **June 11 PM** - Wednesday - at DSO Entity in Brussels
 - GC ESC Tuesday 10
- **September 17 PM** - Wednesday - at ACER in Ljubljana
 - GC ESC Thursday 18
- **December 2 PM** - Tuesday - at ENTSO-E in Brussels
 - GC ESC Wednesday 3