ELECTRICITY BALANCING GUIDELINE UPDATE

Alexander Dusolt, ENTSO-E

MESC



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Update on EBGL process

- 9 February 2017 ECBC meeting
- 15 & 16 March 2017 ECBC meeting with vote foreseen



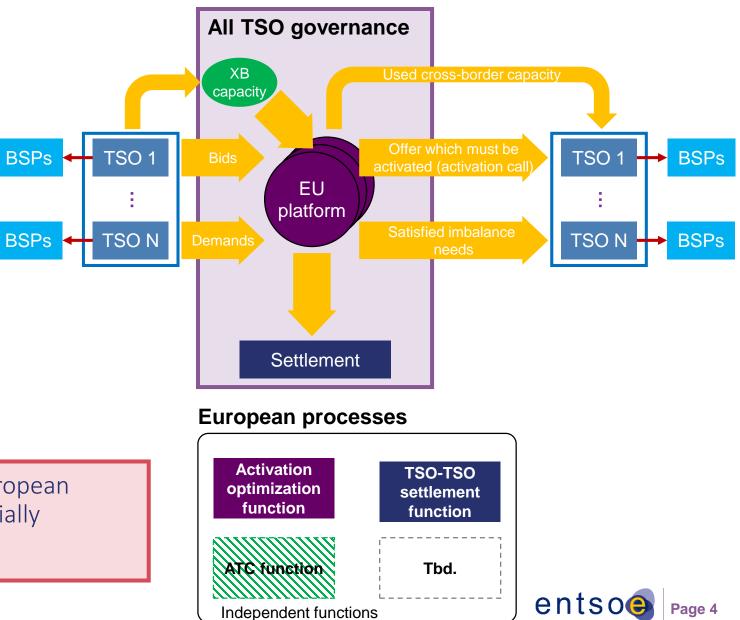
EBGL Timelines

Obligations	2017			2018			2019			2020			2021				2022			2023		
	Q1 Q2 Q	3 Q4	Q1 C	2	3 Q4	Q1	Q2 (Q3 Q4	Q1	Q2	Q3 Q	24 Q	21 C	22 0	23 C	24 G	<u></u> ໂ1 🔾	2 Q3	Q4	Q1	Q2 C	23 Q4
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Imbalance Netting		F	Impl Framewor EIF+6m	k			Pla	I EU utform F+2yrs						Derc	D Join ogatior 2yrs							
Frequency Restoration Reserves		Entry into Force		Fra	Impl mework IF+1yr									Pla	R EU tform +4yrs						Dero	Join gation yrs
Imbalance Settlement		Entry in		Pr	monised oposal F+1yrs					Prop	SP & osal Im F+3yrs											
TSO Proposals					ricing IF+1yr		Allo	ZC cation +2yrs														
General Compliance				Cor	eneral npliance IF+1yr																	
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European Platforms

- European platform coordinates balancing energy activation requests of TSOs.
- As a TSO-TSO model is applied, activation requests and communication with national BSPs remains local.
- European platform comprises independent functions closely interacting with different (local) IT systems.
- » Platform describes business processes on European level supported by different functions potentially performed by different IT systems.



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General Way forward to reach European FRR Targets

Constraints regarding timings

- According to GL EB, a proposal for the implementation framework of the European platform has to be submitted for approval one year after entry into force (i. e. Q3/2018).
 - Experience from TERRE: 1½ year required to put in place the high-level design for RR.
 - mFRR assumed to be equivalent to RR regarding timings.
 - aFRR might be more complex.

»However, there are some lessons learned from the ongoing discussions.

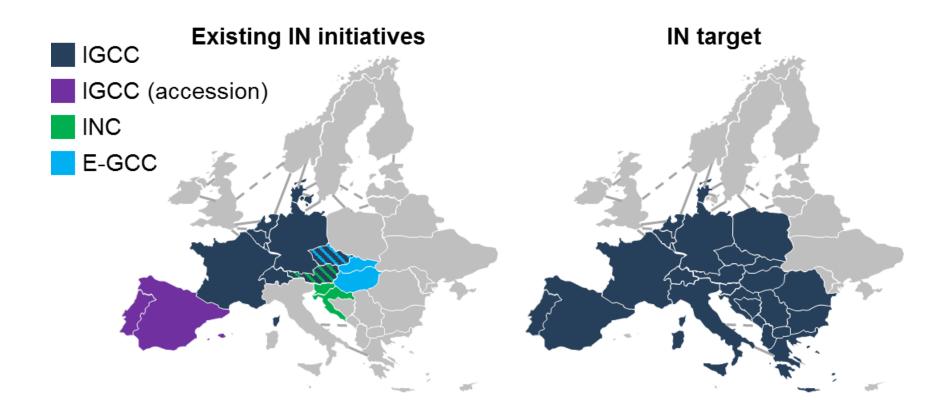
» As a consequence, staring points have to be identified rather soon.

» On the other hand, too early nomination of starting points/reference projects comes along with the risk of failing projects.



IN: Current Status

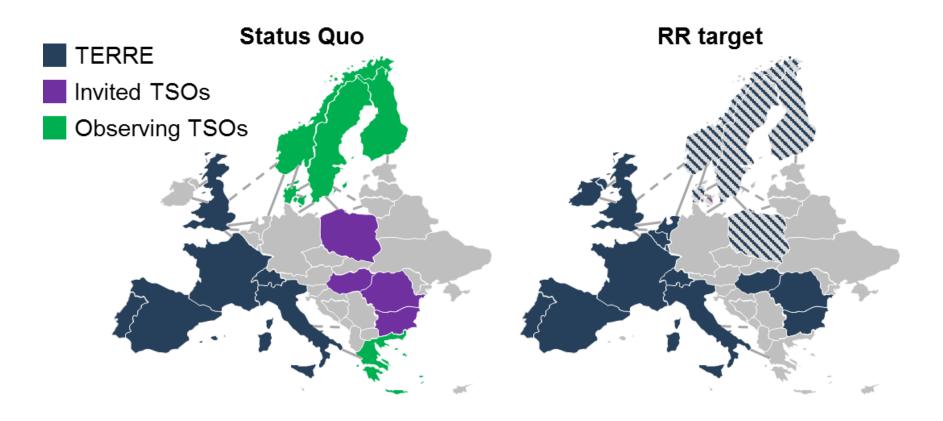
Starting point/reference project formally identified





RR: Current Status

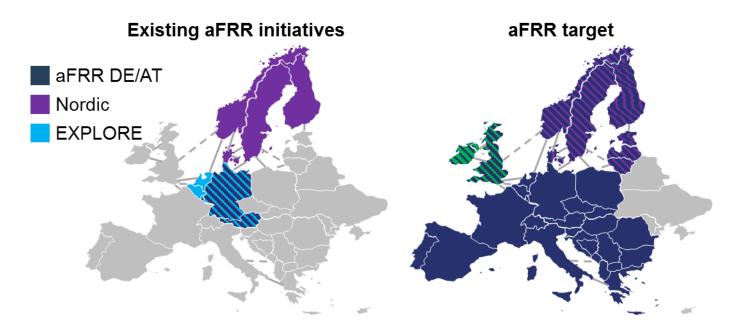
TERRE has been formally endorsed as RR implementation project.





aFRR: Current Status

- Currently, different European aFRR initiatives (not all mutual exclusive)
 - aFRR cooperation DE/AT (in operation)
 - Nordic
 - EXPLORE study (report finalized, next steps discussed)

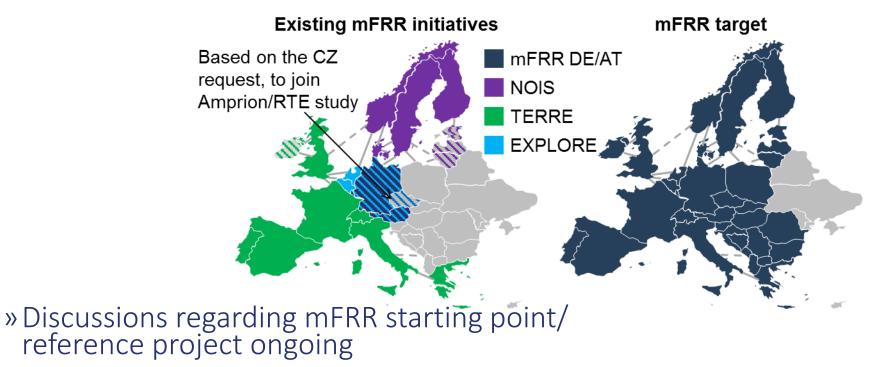


- » Exact layout of EU target model depending on applicability of aFRR (UK, Baltics) and/or technical feasibility of cross-synchronous area exchange of aFRR (Nordics)
- » Discussions regarding aFRR starting point/reference project ongoing



mFRR: Current Status

- Various existing/discussed initiatives
 - mFRR cooperation DE/AT (under development, go-live in next months)
 - EXPLORE study (report finalized, next steps under development)
 - TERRE
 - NOIS
 - Amprion/RTE study
- Attempt of European TSOs to combine efforts on mFRR





Conclusions

- More detailed planning required to meet GL EB deadlines on EIM
- Starting point/reference projects for IN and RR have already been formally identified.
- Discussions regarding starting points/reference projects for mFRR and aFRR ongoing.
- As a consequence, too early to make decisions for starting points/reference projects.





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