

UPDATE ON ELECTRICITY BALANCING

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MESC meeting

6 September 2017



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EBGL Update

All TSOs have candidates for or already endorsed EU implementation projects for all four processes:

- IN - IGCC
- aFRR – PICASSO (tbc)
- mFRR – MARI (tbc)
- RR - TERRE

Timelines












Obligations	2017				2018				2019				2020				2021				2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
RR TERRE			★		Impl Framework EIF+6m						RR EU Platform EIF+2yrs							TSO Join Derogation +2yrs										
Imb. Netting IGCC			★		Impl Framework EIF+6m						IN EU Platform EIF+2yrs							TSO Join Derogation +2yrs										
mFRR mFRR project			4.9. ★	Entry into Force			Impl Framework EIF+1yr											FRR EU Platform EIF+4yrs								TSO Join Derogation +2yrs		
aFRR aFRR project							Impl Framework EIF+1yr												FRR EU Platform EIF+4yrs							TSO Join Derogation +2yrs		
Imbalance Settlement							Harmonised Proposal EIF+1yrs							ISP & Proposal Impl EIF+3yrs							ISP Derogation +2yrs-4yrs							
TSO Proposals							Pricing EIF+1yr				CZC Alloc EIF+2yrs											CZC Harm EIF+5yrs						
General Compliance							EIF+1yr				Pub Info EIF+2yr																	

★ Consultation ★ IG Meeting ★ Stakeholder Meeting

Key	Proposal	Deadline	Derogation
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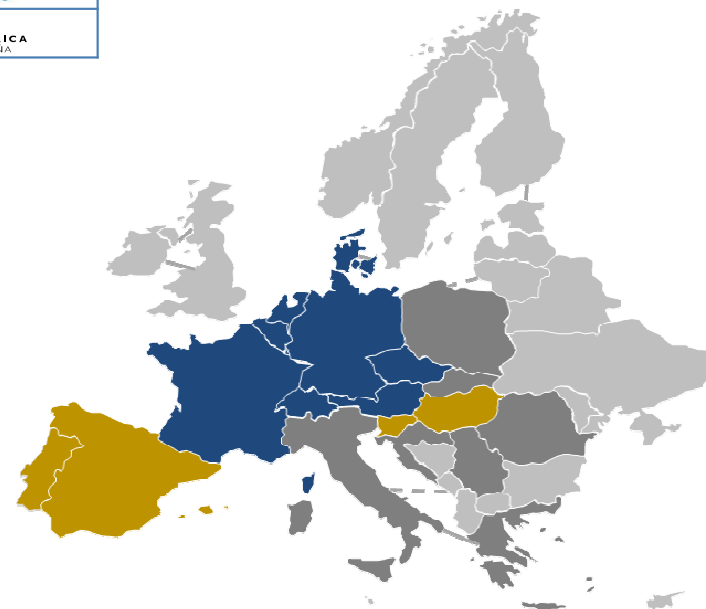
Imbalance Netting – the IGCC project

IGCC - Involved TSOs

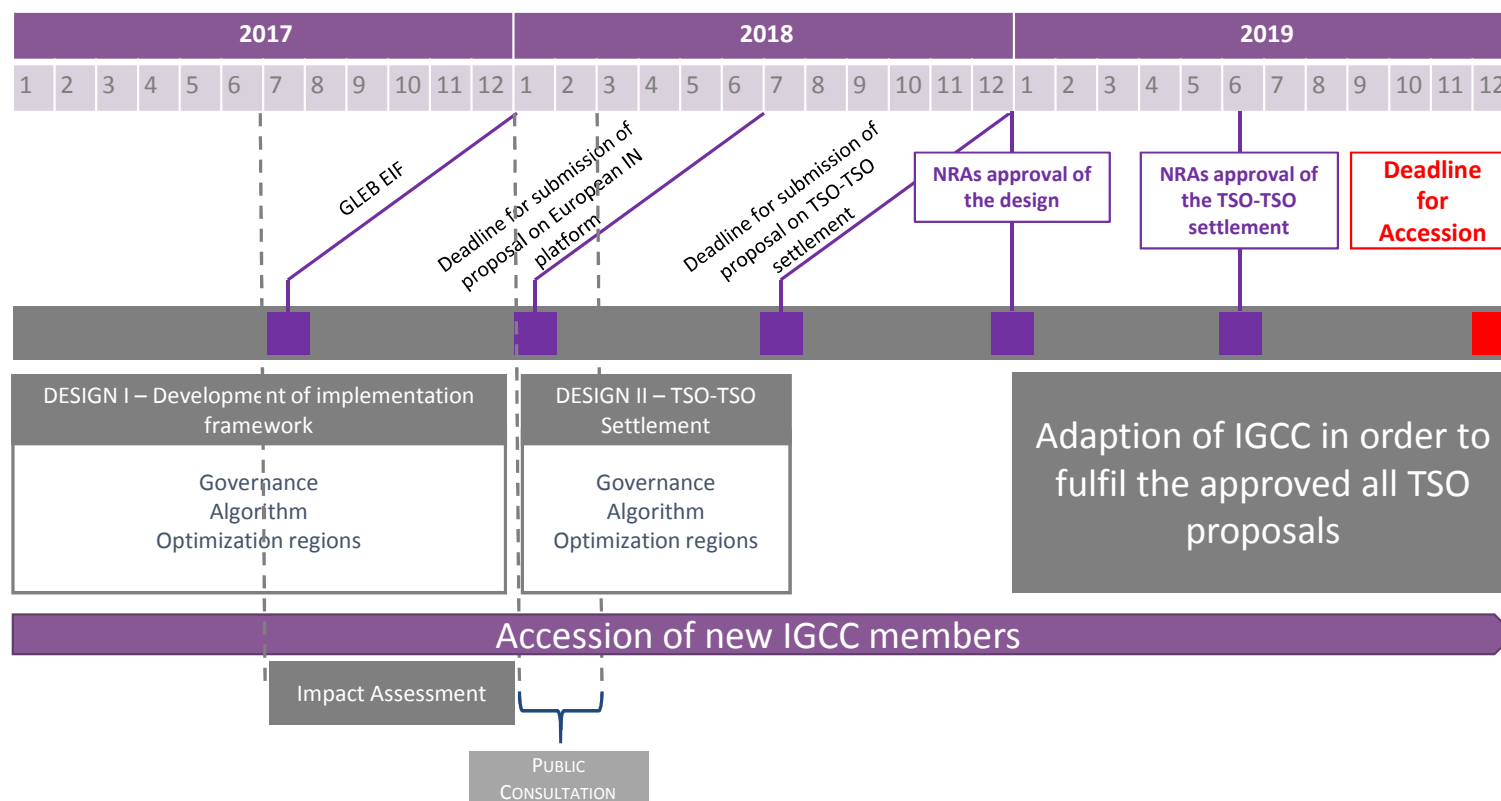
MEMBERS	
AUSTRIA	
BELGIUM	
CZECH REPUBLIC	
DENMARK	
FRANCE	
GERMANY	   
NETHERLAND	
SWITZERLAND	

OBSERVERS	
CROATIA	
GREECE	
ITALY	
ROMANIA	
POLAND	
SERBIA	
SLOVAKIA	

Observer who already started the implementation	
HUNGARY	
PORTUGAL	
SLOVENIA	
SPAIN	



IGCC - Timeline according to GL EB

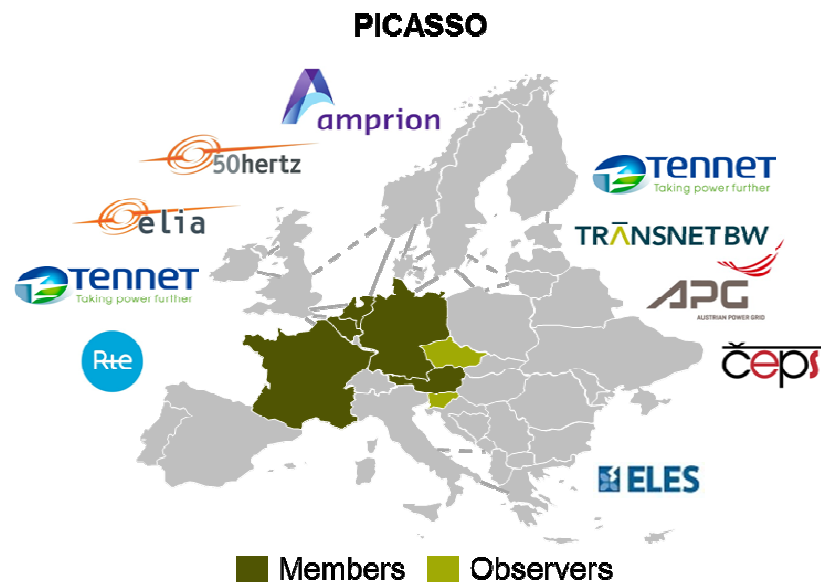


aFRR – the PICASSO project

PICASSO in a nutshell – project description

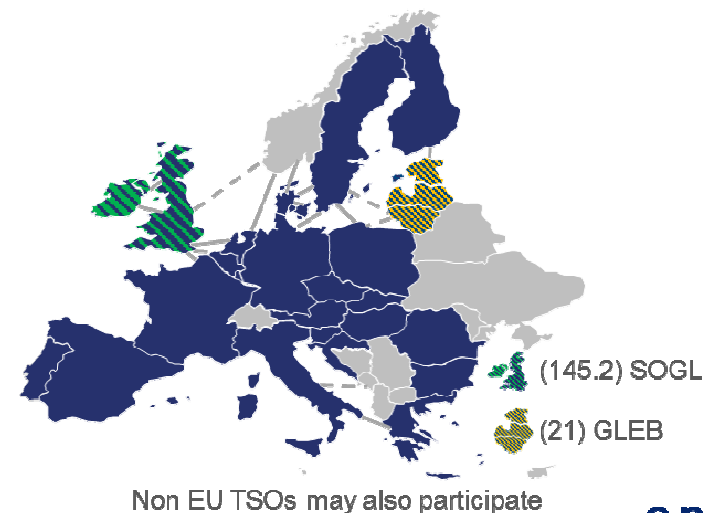
Project description

- The TSOs of Austria, Belgium, France, Germany and the Netherlands agreed to initiate a project on the design, implementation and operation of an aFRR Platform.
- These TSOs intend to apply as reference project for aFRR within ENTSO-E.
- The project name PICASSO stands for “Platform for the International Coordination of the Automatic frequency restoration process and Stable System Operation”.



PICASSO | MESC

EU mandatory aFRR target



PICASSO in a nutshell - Objective & Principles

Objective

- Design, implement and operate an aFRR platform compliant with the approved versions of GLEB, GLSO, CACM as well as other regulations.
- Enhancing economic and technical efficiency within the limits of system security.
- Integrating the European aFRR markets while respecting the TSO-TSO model.



Principles

- Intermediate versions of the platform are supported by all members in order to more efficiently reach the final target.
- Close coordination with the ENTSO-E PT aFRR is intended and required.
- Conclusions from the EXPLORE study for the design of the aFRR platform form the starting points for the framework of the target model.
- TSOs are welcomed to apply for an entry into the project.



mFRR – the MARI project

MARI - Involved Parties – TSOs only

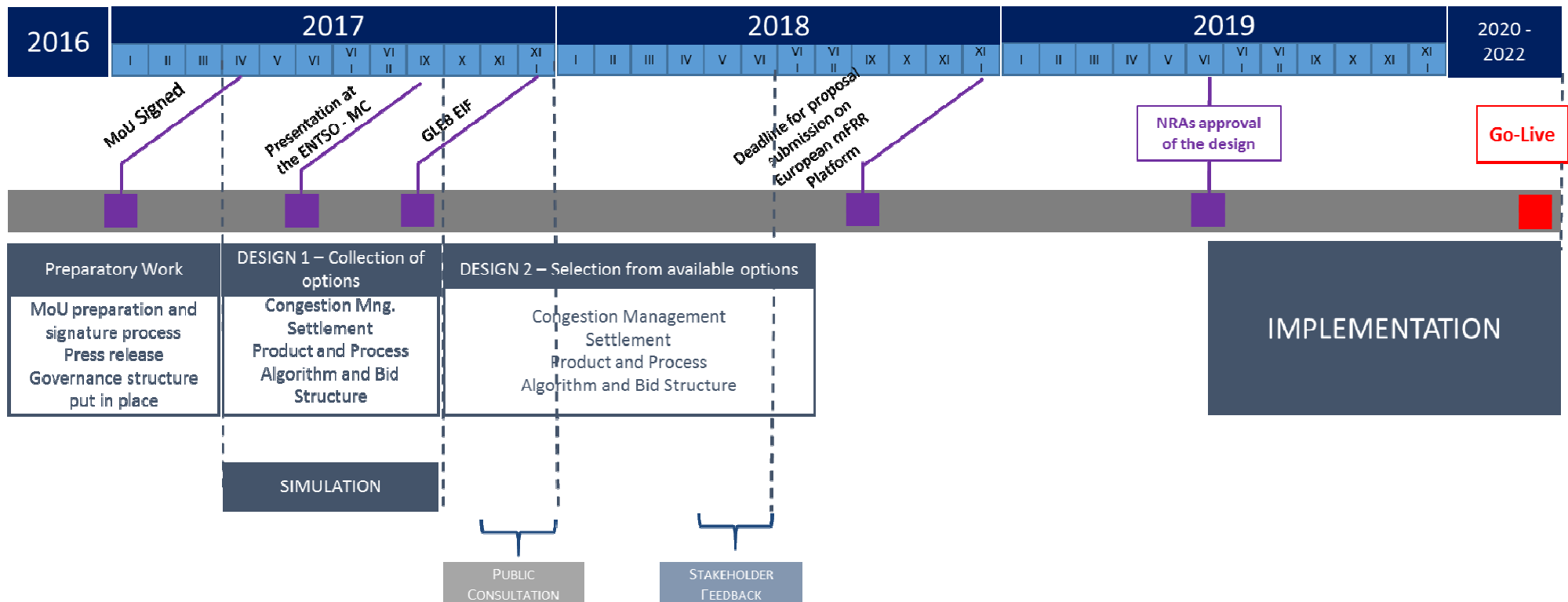
MEMBERS	
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BELGIUM	
CZECH REPUBLIC	
DENMARK	
FINLAND	
FRANCE	
GERMANY	   
GREECE	
UNITED KINGDOM	
ITALY	
NETHERLAND	
NORWAY	
PORTUGAL	
SPAIN	
SWEDEN	
SWITZERLAND	

OBSERVERS	
ESTONIA	
HUNGARY	
LATVIA	
LITHUANIA	
SERBIA	
SLOVAKIA	
SLOVENIA	

Countries in Process of Becoming Observers	
CROATIA	
ROMANIA	



MARI - Project Timeline according to the GLEB



Replacement Reserves – the TERRE project

Agenda

1. TERRE progress
2. Project TERRE consultation phase

TERRE progress - Passed and future project milestones

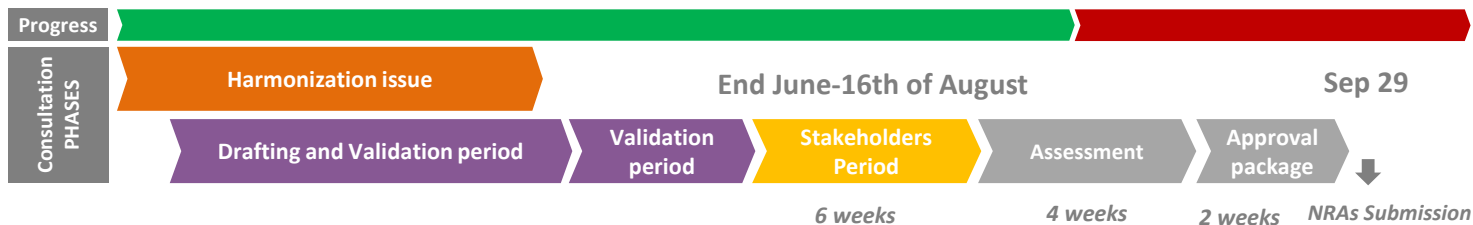
Libra platform development

- The RFP process is the corner stone to establish the algorithmic optimization solution and the technical design of the Libra Platform. The TERRE projects will conclude the first phase of the main RFP Lots in the next weeks, followed by functional design of the platform.



TERRE scope: RR market harmonization and consultation

- Next to the technical implementation of the platform, the harmonization of the RR balancing market was handled by a public consultation. The stakeholders were involved to provide their feedback on the proposed design.

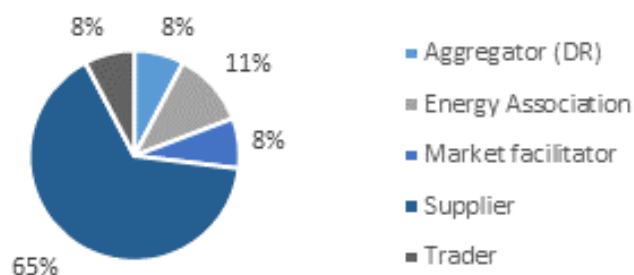
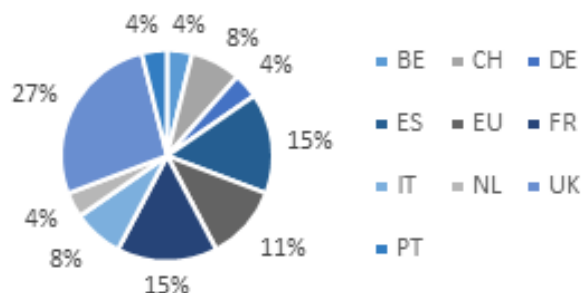


- A dedicated stakeholder meeting will be scheduled before end of 2017 in order to present the results of the Consultation Phase
- Following this step the TERRE TSOs will work with all TSOs using RR to prepare the Implementation Framework

TERRE Consultation Phase - General Output

The stakeholders had until the 16th of August to react on the consultation paper. The pies below summarize the volume of answers which the TSOs have to assess

26 answers representing 10 countries



The TSOs are still assessing the different feedbacks.

All the stakeholders remarks, questions or concerns will be addressed

A dedicated workshop with the stakeholder will be scheduled in order to tackle together the results of the Consultation Phase

Timelines with consultations

EBGL All/relevant TSOs and ENTSO-E tasks	2017												2018											
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D								
ENTSO-E to update manual procedures of Transparency Regulation																								
Proposal for activation purposes																								
Each TSO to propose T&Cs for BSPs and BRPs																								
Proposal for pricing method for all products																								
Proposal for TSO-TSO settlement of intended exchanges of energy																								
Proposal for TSO-TSO settlement of settlement of ramps and FCR and unintended exchanges within and between SA																								
Proposal for harmonisation of certain features of imbalance calculation & pricing																								
Cross Border Capacity Allocation																								
ENTSO-E monitoring plan																								
Proposal for implementation framework for European platform for replacement reserves																								
Proposal for implementation framework for European platform for frequency restoration reserves with manual activation																								
Proposal for implementation framework for European platform for frequency restoration reserves with automatic activation																								
Proposal for implementation framework for European platform for imbalance netting																								

Drafting
 Workshop
 Consultation



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