MESC – GLEB update

06 March 2018

High Level Planning

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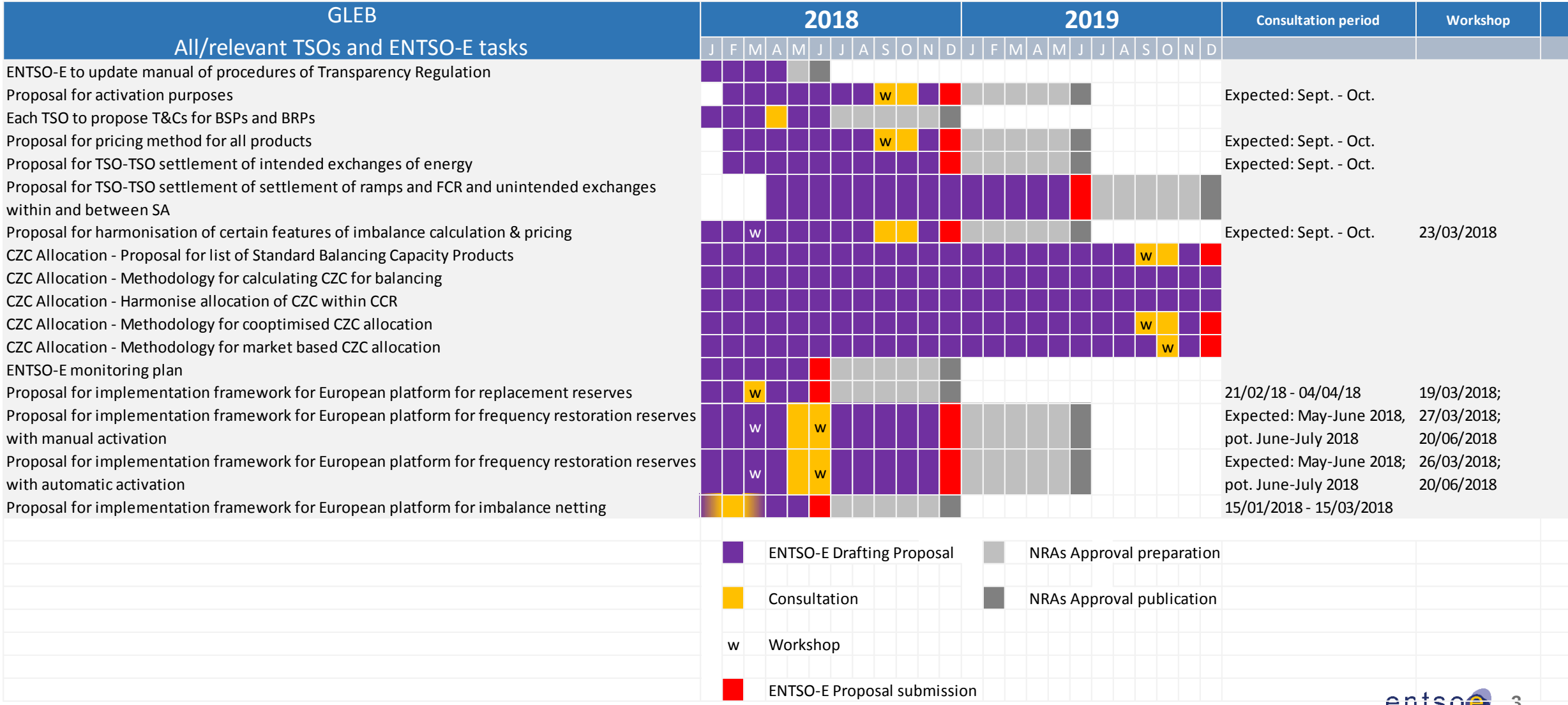


Overview members of IPs

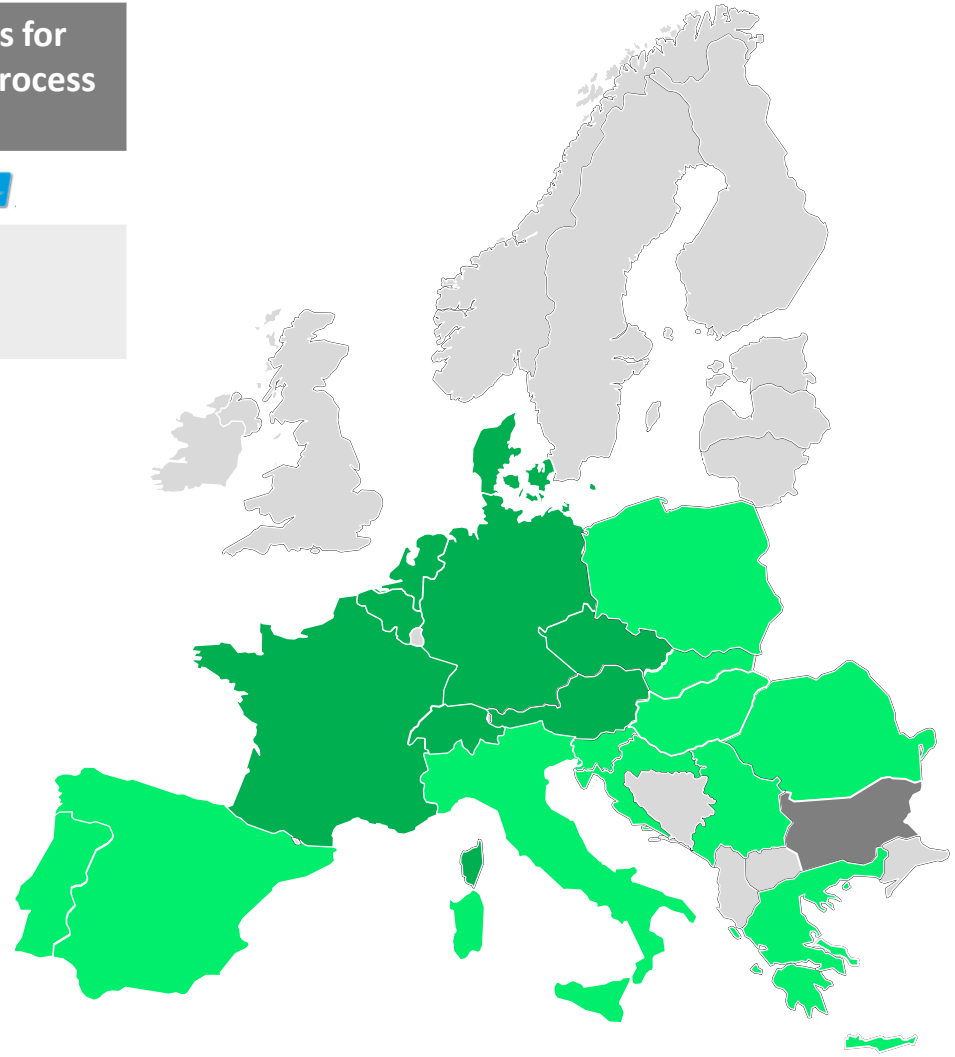
Imbalance netting - IGCC

IGCC members (11 TSOs)
Austria
Belgium
Czech Republic
Denmark
Germany
France
The Netherlands
Switzerland

Facilitating party role (PMO)
ENTSO-E

IGCC observers (11 TSOs)
Croatia
Greece
Hungary
Italy
Poland
Portugal
Romania
Serbia
Slovakia
Slovenia
Spain

NDA signature process for becoming observer in process (1 TSO)
Bulgaria



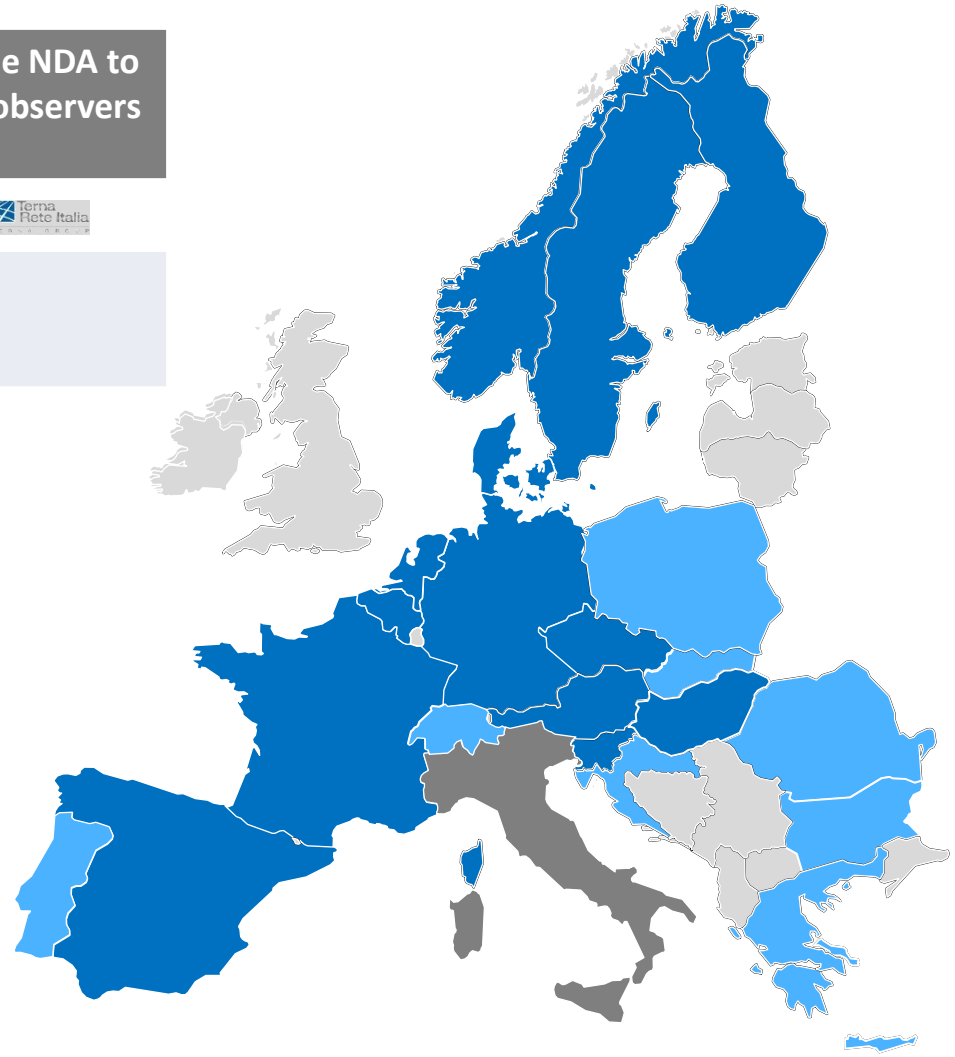
entsoe

aFRR - PICASSO

PICASSO members (16 TSOs)
Austria
Belgium
Czech Republic
Denmark
Finland
France
Germany
Hungary
The Netherlands
Norway
Slovenia
Spain
Sweden

PICASSO observers (8 TSOs + ENTSO-E)
Bulgaria
Croatia
Greece
Poland
Portugal
Romania
Slovakia
Switzerland
ENTSO-E

Have requested the NDA to become PICASSO observers (1 TSO)
Italy



mFRR - MARI

MARI members (25 TSOs)			
Austria	APG	Lithuania	Litgrid
Belgium	elia	Norway	Statnett
Czech Republic	ČEPS	Netherlands	TenneT
Denmark	Energinet.dk	Portugal	REN
Estonia	elering	Poland	PSE
Finland	Fingrid	Romania	Transelectrica
France	RTE	Slovenia	ELES
Germany	50hertz, TenneT, amprion, TransnetBW	Spain	Red Eléctrica de España
		Sweden	Svenska Kraftnät
		Switzerland	swissgrid
Greece	ADMIE	United Kingdom	nationalgrid
Italy	Terna Rete Italia		
Latvia	AST		

MARI observers (5 TSOs + ENTSO-E)			
Bulgaria	ESO	Serbia	EMC
Croatia	HOPS	Slovak Republic	SEPS
Hungary	MAVIR	ENTSO-E	entsoe

Have requested the NDA to become MARI observers (2 TSOs)	
Ireland + Northern Ireland	EirGrid, SONI

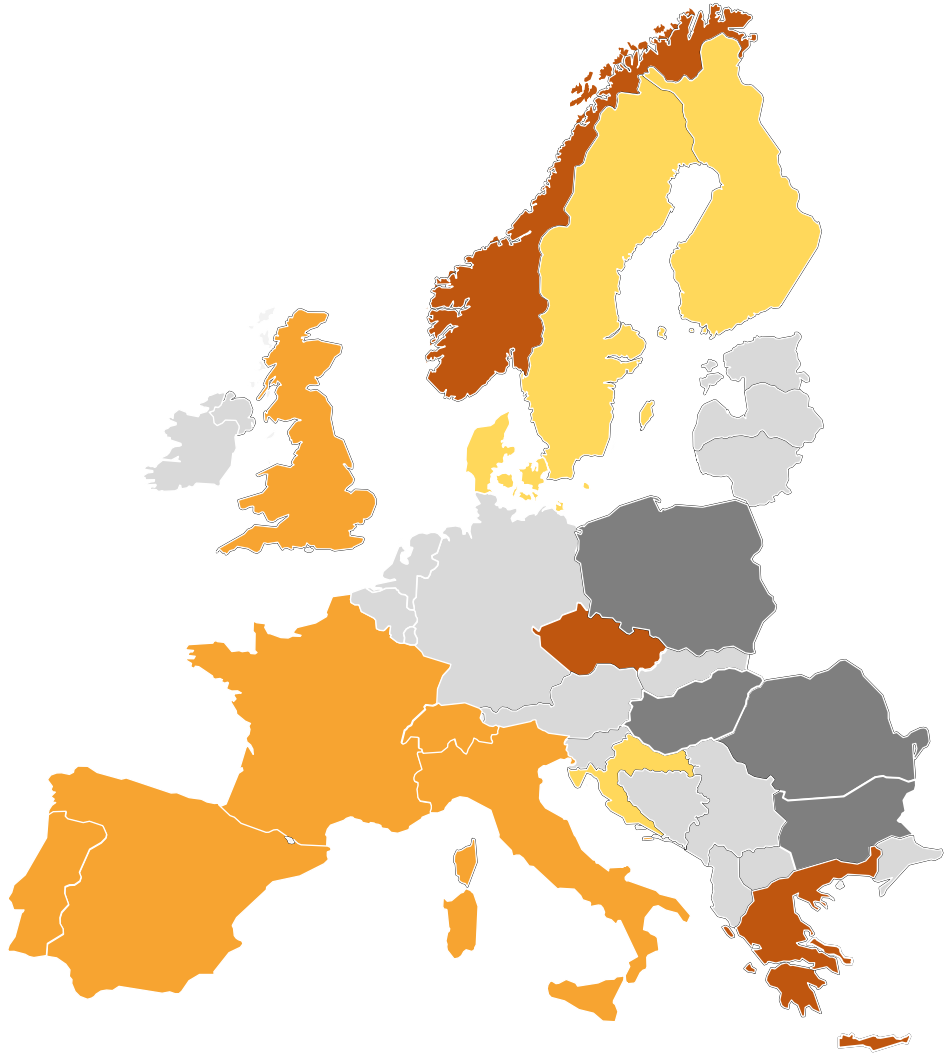
Replacement Reserves - TERRE

TERRE members (6 TSOs)
France
Great Britain
Italy
Portugal
Spain
Switzerland

Participants under the RR IF and not yet TERRE members
Bulgaria
Hungary
Poland
Romania

TERRE Observers
ADMIE
Czech Republic
Norway
ENTSO-E secretariat

Potential interest (4 TSOs)
Croatia
Denmark
Finland
Sweden

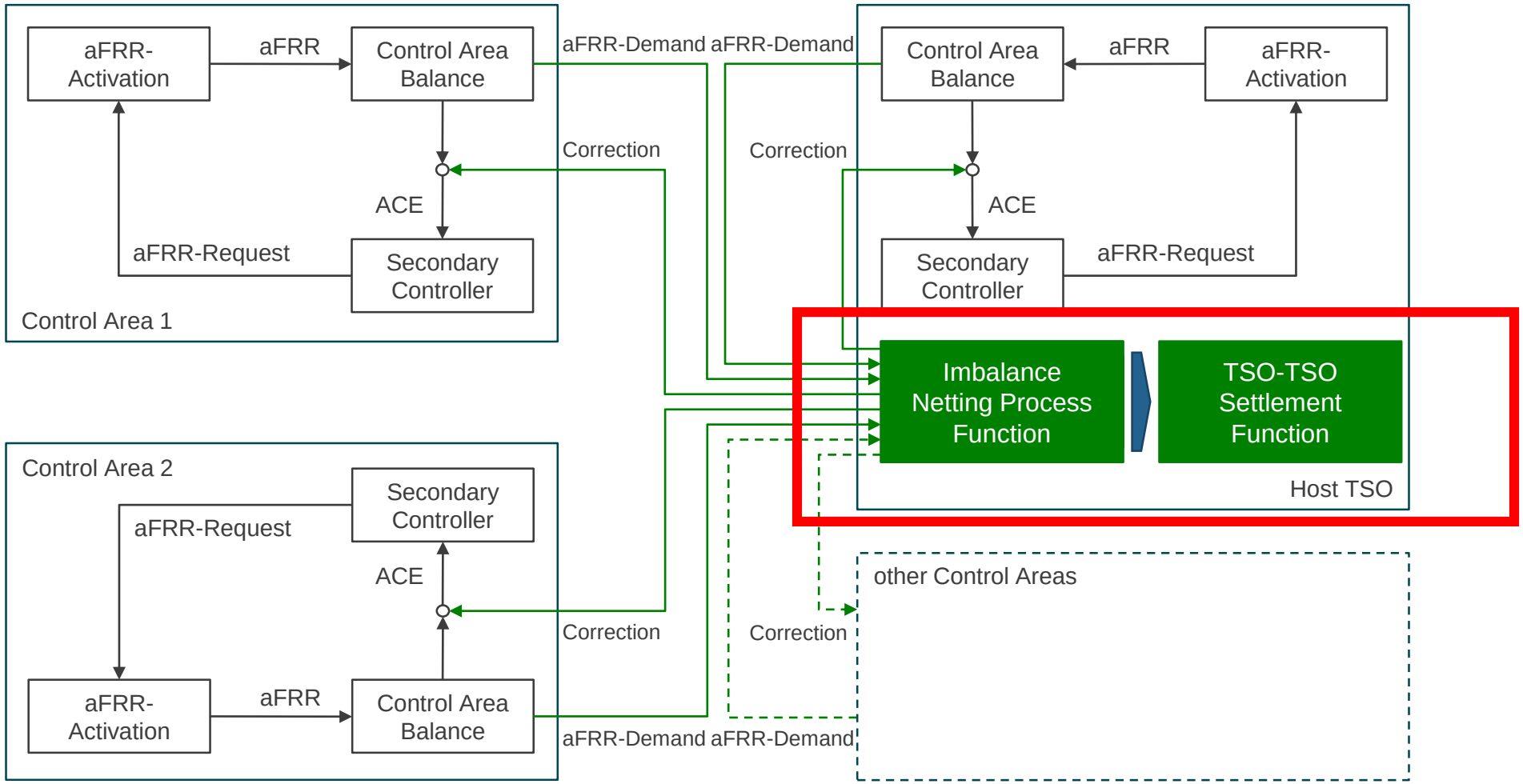


Imbalance Netting

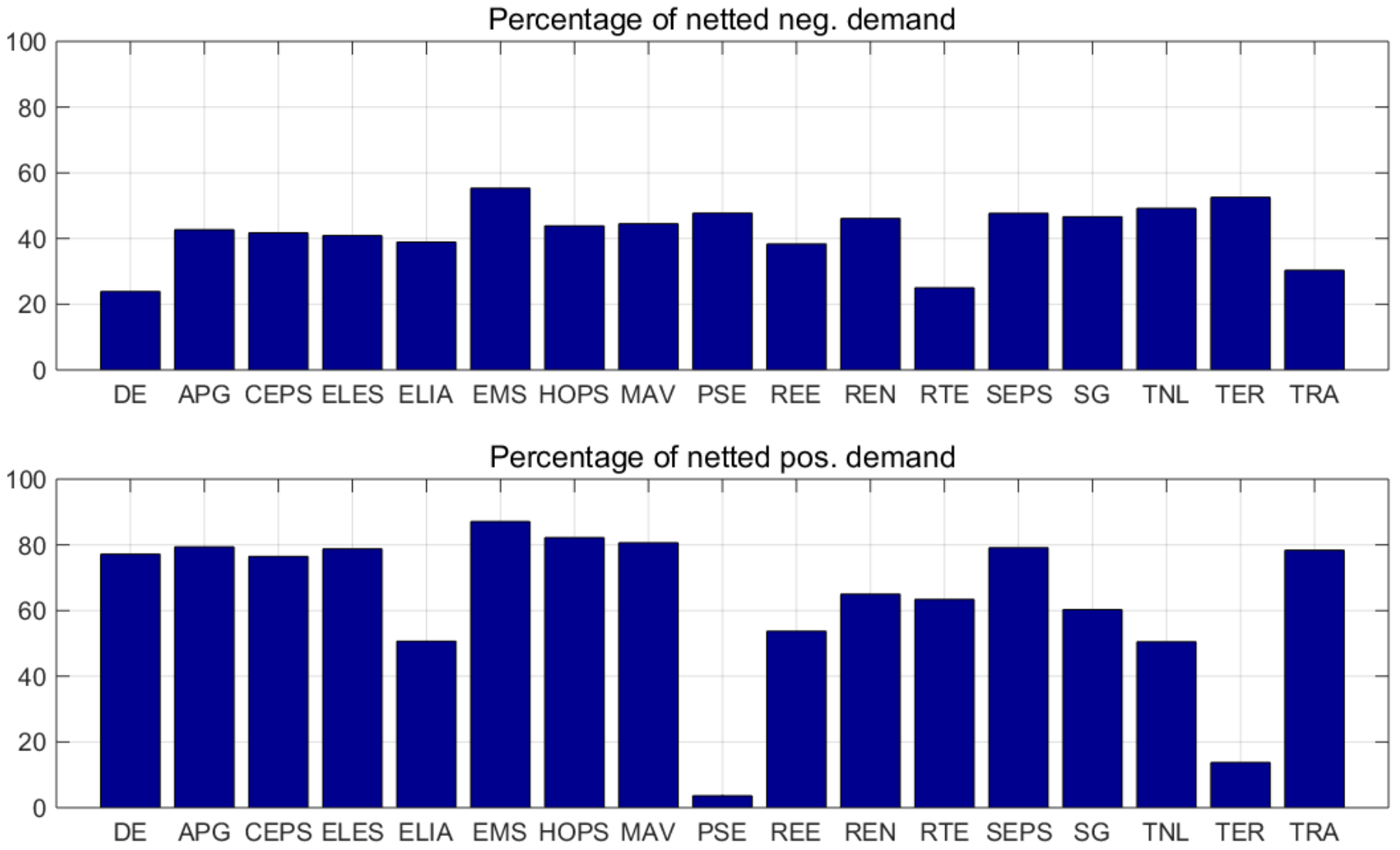
Implementation Framework - Structure

- Whereas
- Article 1: Subject matter and scope
- Article 2: Definitions and interpretation
- Article 3: High-Level design of the IN-Platform
- Article 4: Implementation of the IN-Platform
- Article 5: Functions of the IN-Platform
- Article 6: Governance
- Article 7: Decision making
- Article 8: Proposal for entity or entities
- Article 9: Framework for harmonization of the terms and conditions
- Article 10: Categorization of costs and detailed principles for sharing the common costs
- Article 11: Description of the algorithm for the operation of imbalance netting process function

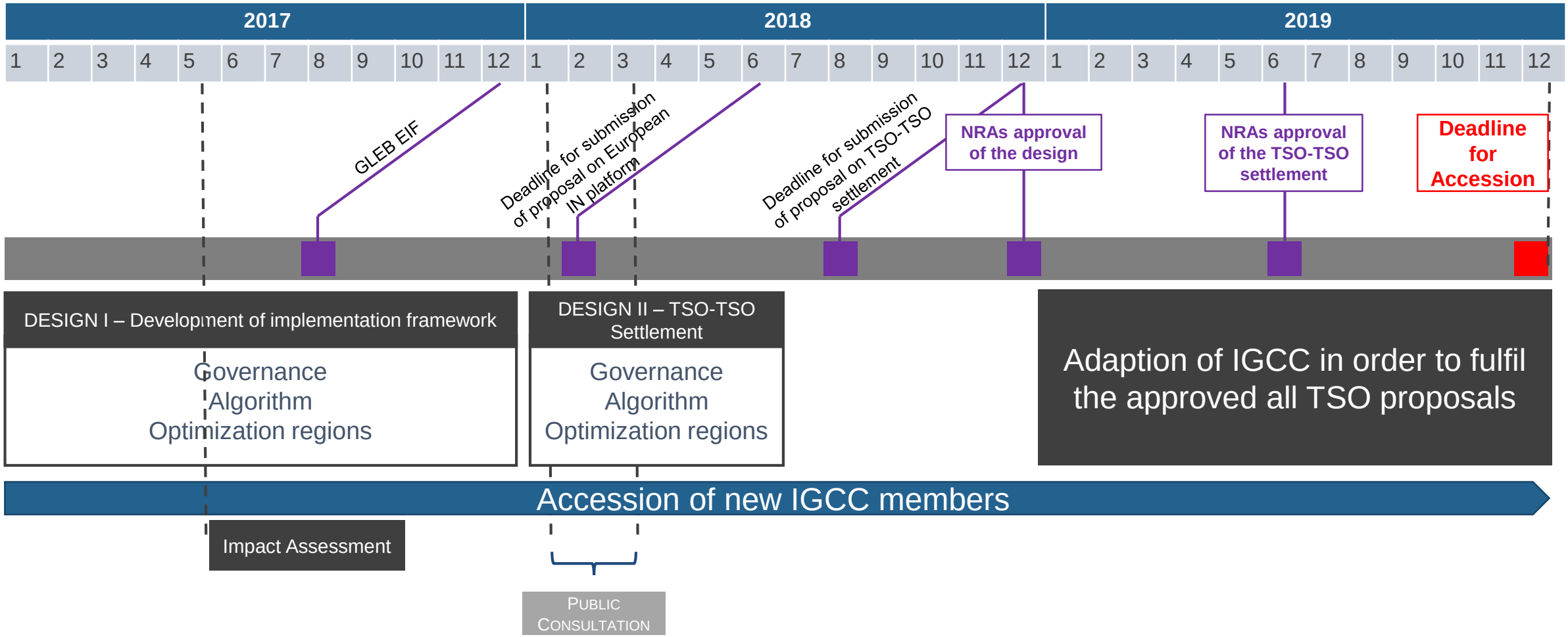
Functions of the IN-Platform



Impact Assessment - Expected benefits – monthly netted volumes



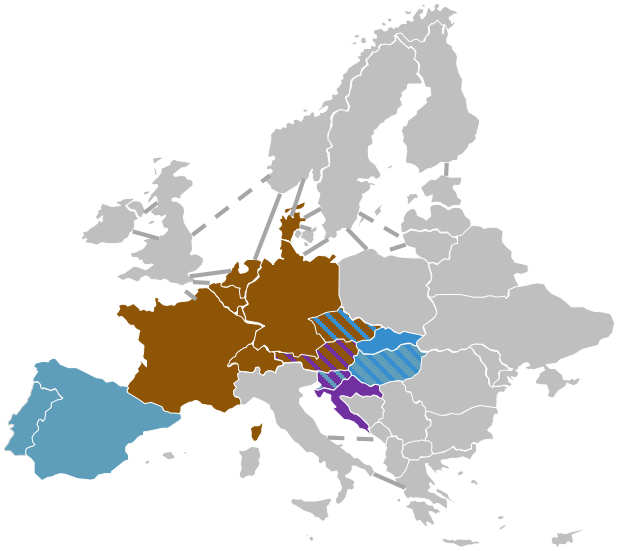
Next steps - timeline



Implementation plan

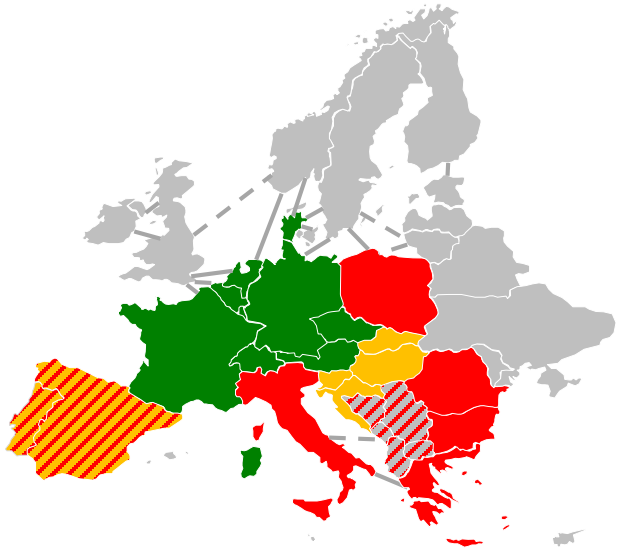
IGCC
INC
E-GCC
Implementation started
PT Member
Implementierung finalized
Partial Implementation
No Implementation

Status Quo



PT IN

Implementation



Replacement Reserves

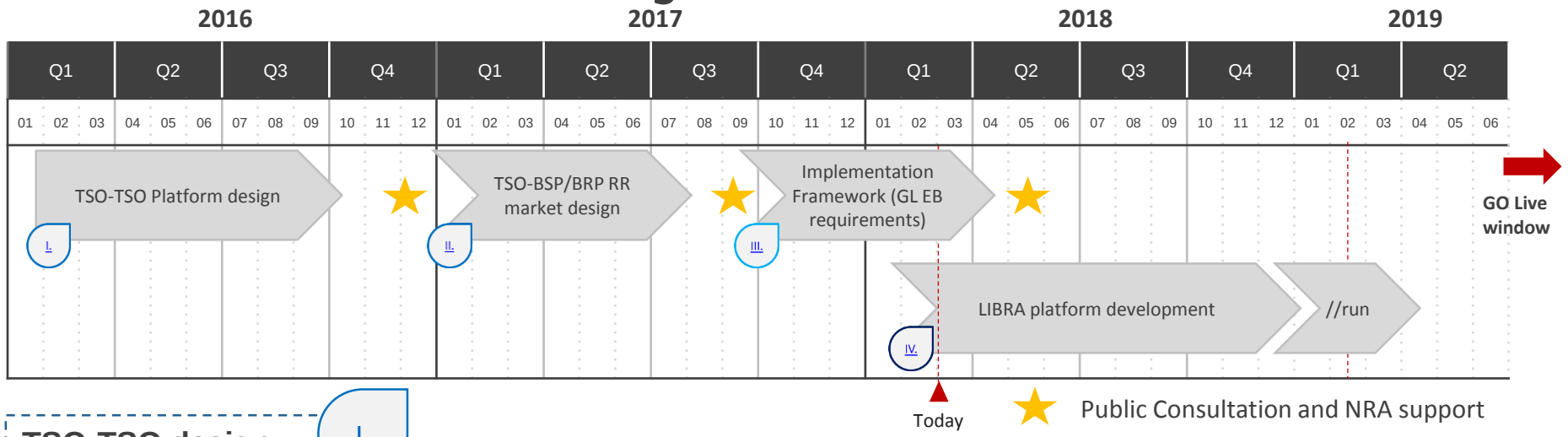
Replacement Reserves

Public Consultation link: consultation for the implementation framework for European platform for replacement reserves

Next TERRE Stakeholder Workshop on RR IF link: registration is open

- As required by the GLEB, **all TSOs using RR have 6 months after the EIF of GLEB to submit a proposal for the RRIF.** The **deadline is thus 18 June 2018**.
- The work is handled by the TERRE project, in which all TSOs using Replacement Reserves are represented**. It must be noticed that ESO joined the project in January 2018**.
- In addition, an **explanatory note** to the RRIF has been written to help stakeholders' understanding.

Introduction and Project current state



TSO-TSO design: I.

- CBA
- Definition of the product
- Imbalance need
- Central Dispatch
- Unshared and Restricted bids
- Algorithm
- Settlement
- Timings

RR market design II.

- TSO-TSO model
- TSO-BSP/BRP model
- Accepted RR Product
- Harmonisation of incentives/settlement rules/deviations
- BEGCT definition
- Transparency regulation

Implementation Framework III.

- Involvement of all RR countries into discussion
- LIBRA TSO-TSO rules and desing
- RR market rules and design
- Governance and cost-sharing rules

Development of the LIBRA platform IV.

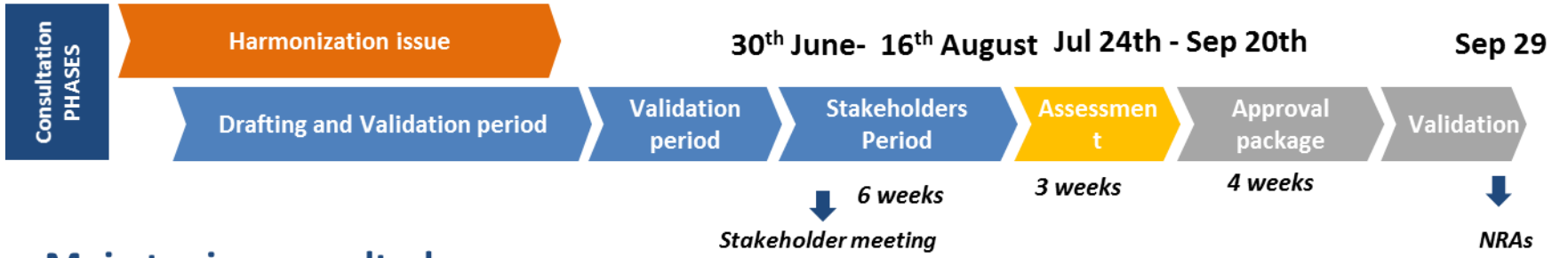
- Functional design
- Development main modules LIBRA
- Testing (IOP and E2E)
- Contracting of services

TERRE Website updated via link:

https://electricity.network-codes.eu/network_codes/eb/terre/

TERRE consultation feedback

High level planning past consultation on RR market design



Main topics consulted

TSO-TSO Model	TSO-BSP/BRP Model	Transparency
▪ Marginal Price ▪ Congestion rent management ▪ Timings: XB scheduling step of 60' with target of 15' ▪ Allowance of Counter-Activations ▪ UAB/URB treatment ▪ Need flexibility ▪ Interconnection controllability	▪ Accepted RR balancing product definition ▪ Harmonization of settlement rules ▪ Harmonization of incentives ▪ BEGCT definition	▪ National publications ▪ Publications on ENTSO-e transparency platform

At a working level, the NRAs sent their « Common Opinion » on the TSOs submission.

TERRE consultation feedback

- Counter Activation
- BEGCT
- Increasing of RR daily clearings number (48 or 96)
- Reduction of XB Scheduling Step for Balancing market
- Local/National Stakeholder involvement

The TSOs are still assessing the NRAs opinion paper.

The current version of the RR IF doesn’t tackle all NRA proposals

- Drafted with 11 TSOs (6 TSOs was involved in the 2 previous consultations)
- The RR IF includes mainly what the GL EB required for the “RR Platform”

LIBRA platform – description and status

Lot B1: Tendering closed / development started

Optimization/Clearing algorithm

- Optimization of the bids using CMOL
- Optimization of the available CZ interconnections

Lot B2: Tendering closed / development started

IT interface/data management

- Interface scalable up to 50 TSOs

Lot C: Tendering Ongoing

Hosting

- External party will be contracted for hosting the LIBRA activities
- Flexibility on changing the hosting party towards other suppliers or TSOs
- Flexibility on upgrading the hardware following future demand

Lot D

IT monitoring service

- Monitoring of the Optimization module initially 24/7, with the possibility to decrease to 8/7 after the // run
- Monitoring of the IT interface: 24/7
- SLAs and contracting in case of failure

Lot C: Tendering Ongoing

Financial Settlement

- Financial settlement externally contracted
- Monthly billing system between TSOs through a centralized clearing house
- Flexibility to add new TSOs

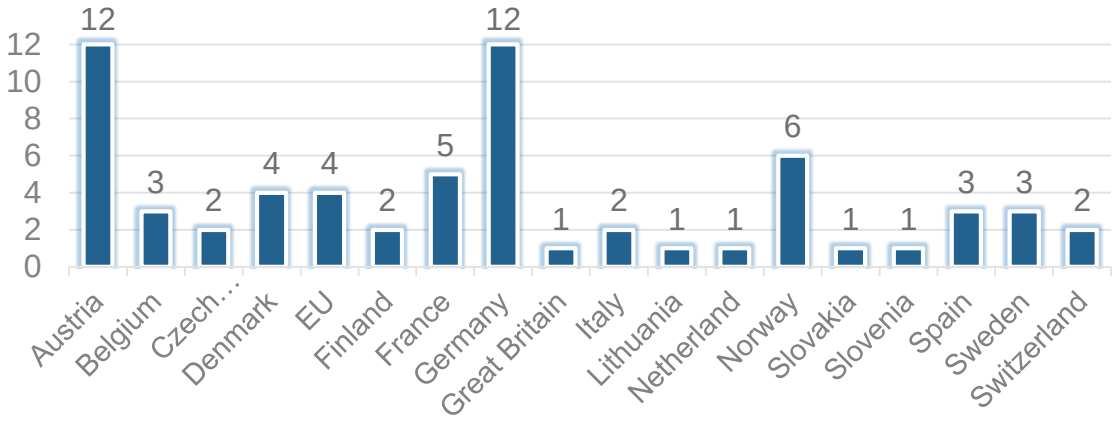
Lot F: Tendering closed / work started | **TESTING**

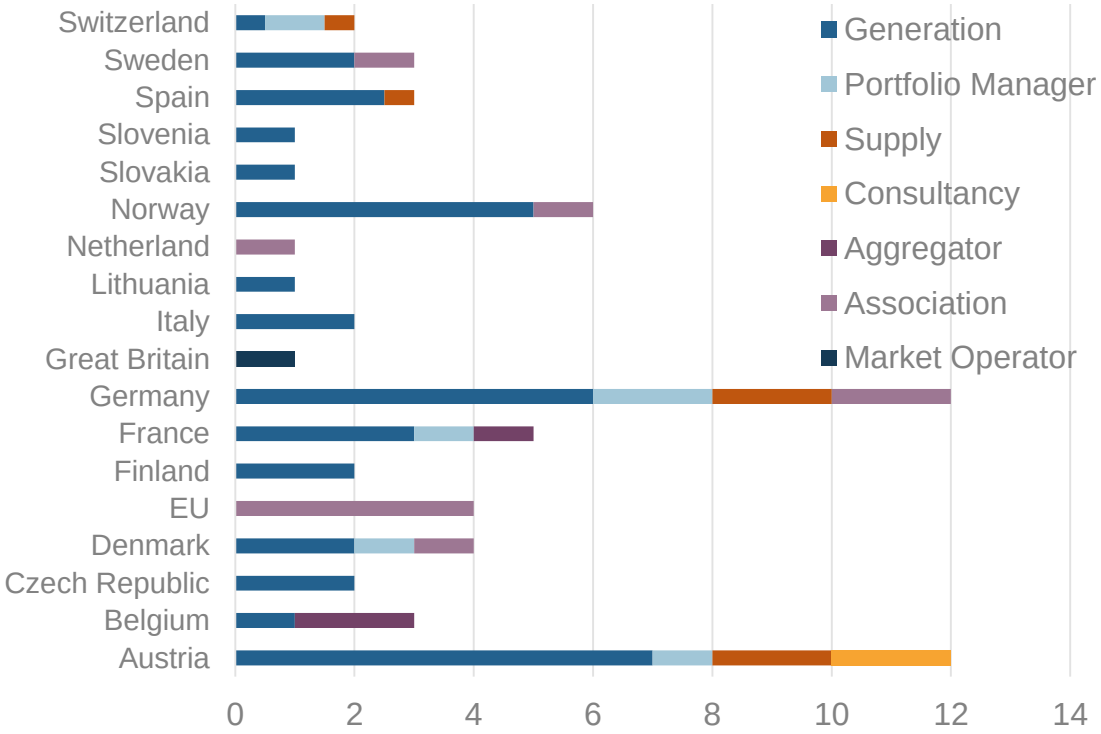
Main modules Services

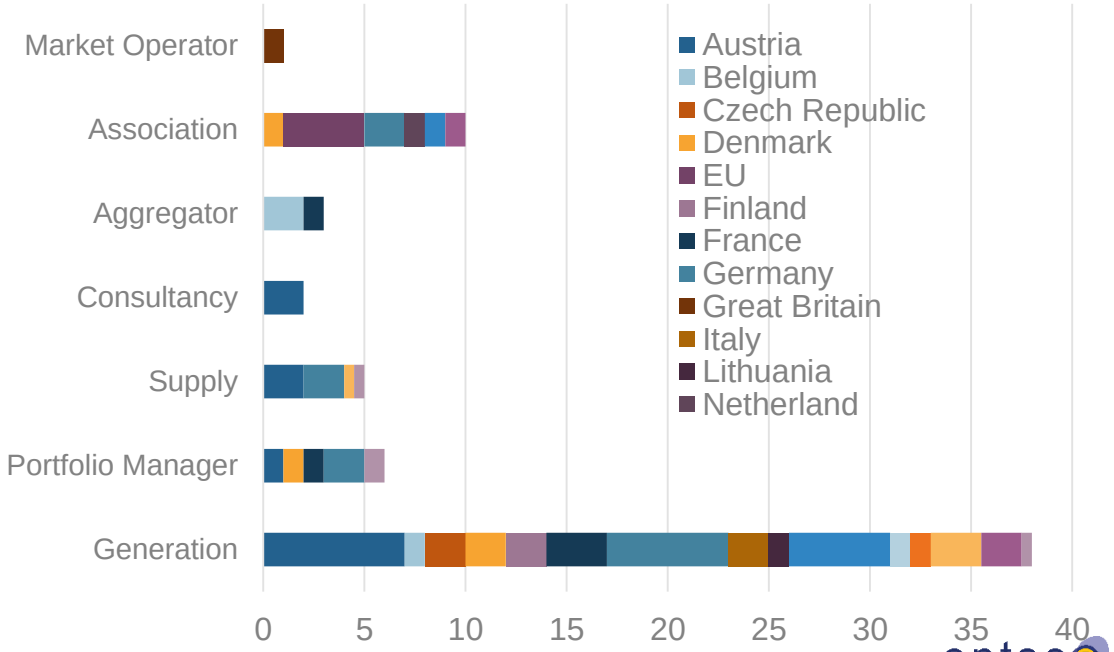
MARI & PICASSO

MARI - General Statistics I

- There were released consultation questionnaire including 45 questions, across 65 stakeholders from 17 countries.
- The market roles of stakeholders were identified by themselves to 7 categories.
- Majority of stakeholders is presented in Germany and Austria, and major role is the generation.





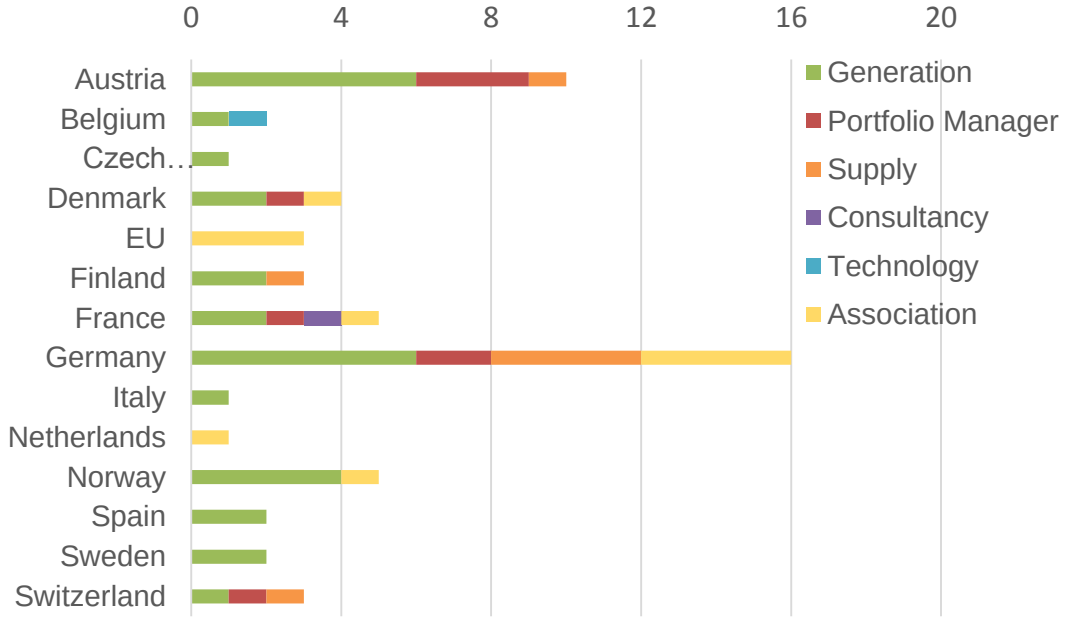


PICASSO - Consultation Feedback

General Statistics I

- There were released consultation questionnaire including 67 questions, across 58 stakeholders from 13 countries.
- The market roles of stakeholders were identified by themselves to 6 categories.
- Majority of stakeholders is presented in Germany and Austria, and major role is the generation.

Countries of Origin:



Countries of Presence: