

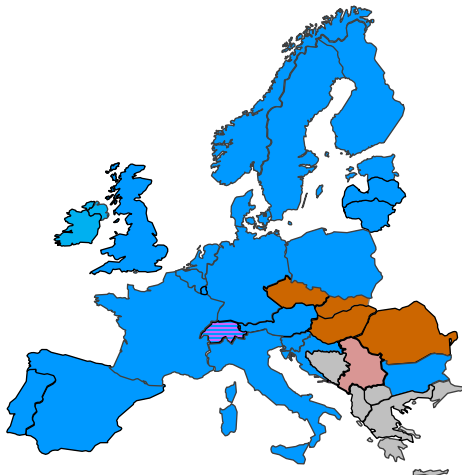


# Status update on the PCR Project

15th MESC, 5th December 2018

# I. PCR High Level Status

- Price Coupling of Regions (PCR) is the voluntary initiative of 7 European Power Exchanges, to develop a single price coupling solution to calculate electricity prices and allocate cross-border capacity on a day-ahead basis across Europe
- PCR has, since its Go-Live in Feb 2014, proven to be operationally robust and ready to facilitate the EU target of an integrated electricity market
- **Major milestones achieved:**
  - 04 Feb '14: NWE Go-Live + SWE in common synchronised mode using PCR
  - 13 May '14: SWE Full Coupling
  - 19 Nov '14: Launch of the 4M Market Coupling using separate PCR Solution
  - 24 Feb '15: CSE Coupling (FR-IT, AT-IT, SI-IT)
  - 20 May '15: CWE FB Implementation
  - 16 Jun '15: Provision of PCR Simulation Facility to MRC users (PXs + TSOs)
  - 20 Jan '16: Bulgaria
  - 11 Feb '16: Croatia (isolated mode)
  - 18 Feb '16: Serbia
  - 19 Jun '18: Market Coupling on Slovenian-Croatian border
  - 30 Sept '18: DE/AT split of bidding zones & SEMO integration of IRL & NIR



Expansion PCR		
	Multi Regional Coupling (MRC): NWE, Poland, Baltic, SWE & CSE, Bulgaria, Croatia, Ireland & Northern Ireland	Feb 2014 synchronous operation, May 2014 full price coupling, Feb 2015 integration CSE (FR-IT, AT-IT, SI-IT), Jan 2016 Bulgaria, Feb 2016 Croatia, Jun 2018 SI-HR border, Sept 2018 SEMO integration
	4MMC	Separate PCR Solution, Successfully launched on 19 Nov 2014. To be coupled to MRC as soon as possible (via CEE Flow Based/NTC)
	Serbia	Independent operation of algorithm
	Switzerland	TBD integration into MRC

## II. Key Achievements – Outstanding Issues

### OPSCOM/CCB

Next Implementation:

- Extension of PCR and topology change: including EXAA, removal of 4 Italian bidding zones
- MNA solution through RFCs related to PMB 10.1 and Euphemia 10.3
- Multi-NEMO arrangement in CWE (MNA CWE)
- Different types of blocks in different bidding zones – to be implemented at the end of November

### Algorithm

- Main focus on E10.3 MNA release:
  - Final release E10.3 testing started. Test scope anticipates changes until 30 June 2019 (e.g. MNA implementations in CWE, GB, Nordic and PL, SEMO go-live, DE/AT split, NEMO link, Cobra, inclusion PL blocks)
- Scoping E10.4 started:
  - External constraints / parallel ATC lines / extended ramping requirements
  - Anticipated go-live: Autumn 2019
- ALWG anticipates to support INC during their R&D activities to evolve Euphemia to a CACM compliant SDAC solution

### System Design

- PMB 10.1.1 is in local testing by PXs
- Unicorn is working on PMB 10.2, the decoupling enhancement version, work will be ready in February

### Governance

- CACM compliance evaluation (3rd Amendment)

### III. High Level Planning 2018 – Euphemia and PMB

- MNA release: Euphemia 10.3 and according PMB 10.1 : Preliminary planning is confirmed
  - ❑ Expected go-live of Euph 10.3/PMB 10.1 is in January 2019. The prolonged design phase puts a strain on the schedule.