



Energy Market Development – Highlights from the TSO perspective

Update by Slovenská elektrizačná prenosová sústava, a.s. (SEPS)/SEPS operating as TSO in Slovak Republic

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Introduction - Slovakia from Market and System Operation Perspective

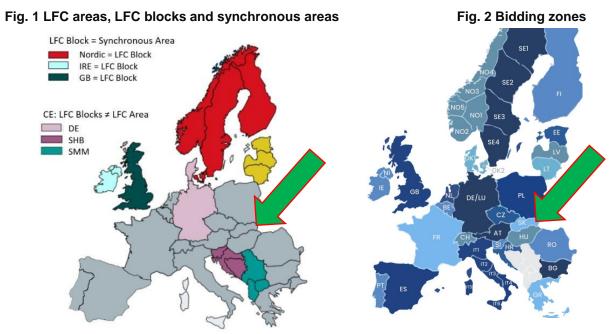


Fig. 5 Core Capacity Calculation Region (CORE CCR)



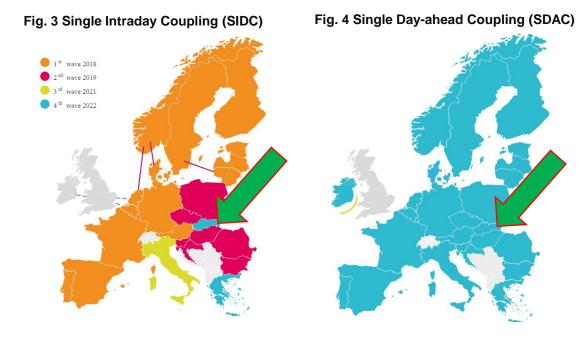
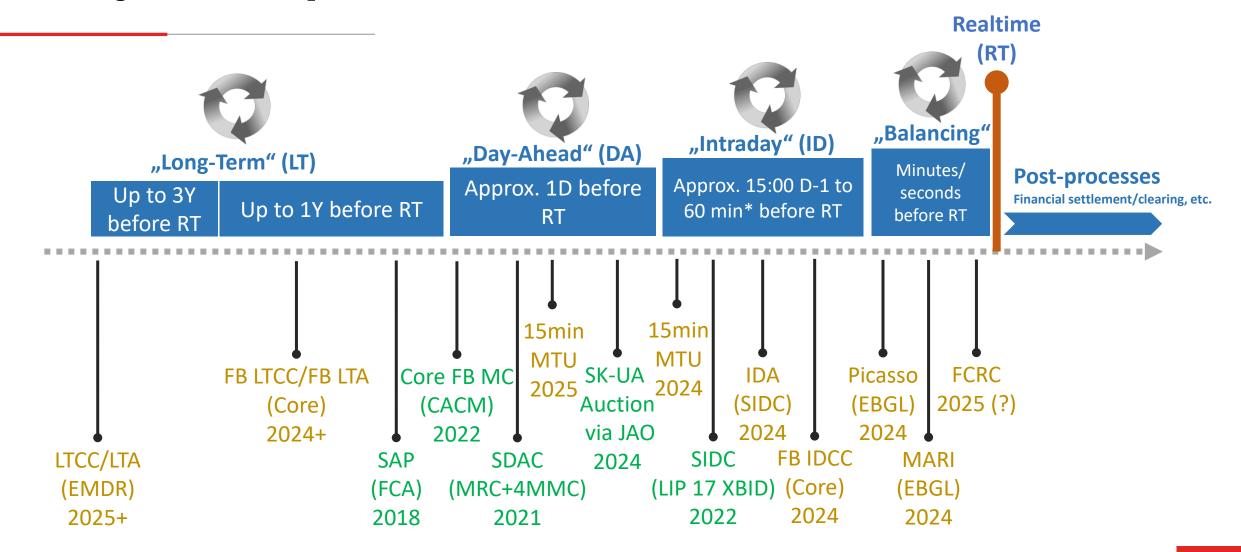


Fig. 6 Eastern Europe Capacity Calculation Region (EE CCR)



Key development activities - SEPS relevant overview



SK-UA profile development

24/02/2022 Disconnection of Ukraine and Moldova from IPS/UPS;

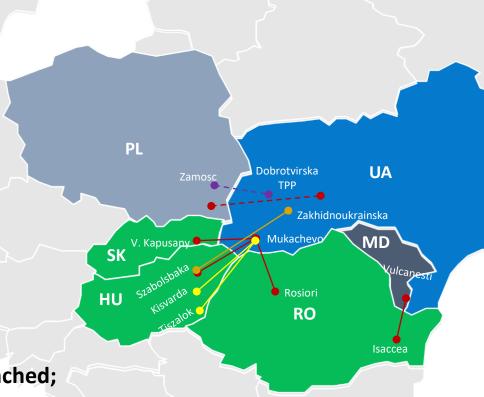
16/03/2022 Emergency synchronization of Ukraine and Moldova with synchronously operated system of Continental Europe;

Commercial solution for the allocation of cross-border capacities between Slovakia and Ukraine maintained without significant interruption during whole period in form of day ahead explicit auctions organized by the TSOs of Slovakia and Ukraine;

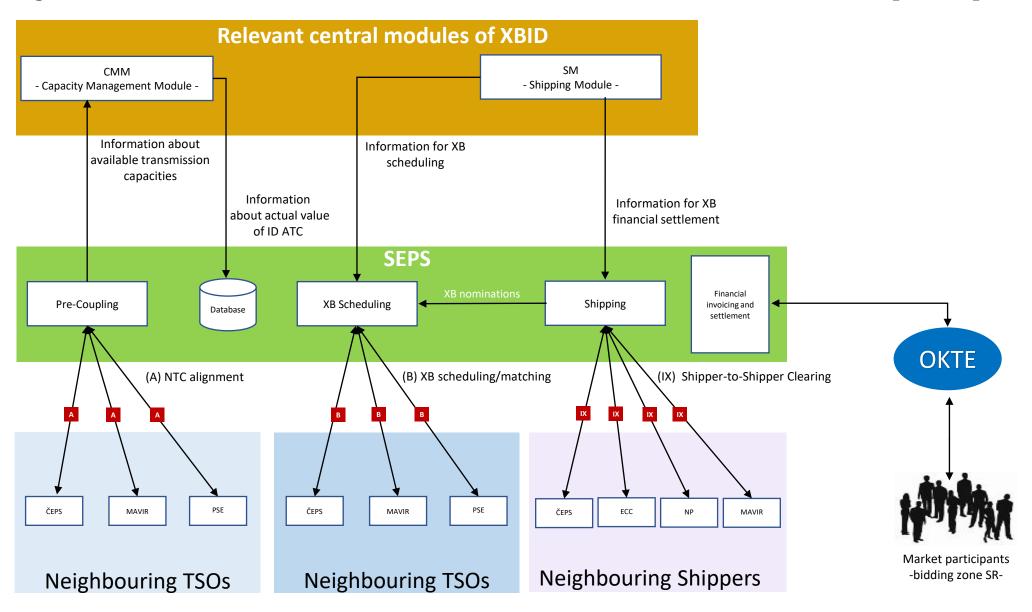
3-layer assistance: Trading 1d+ before RT, Emergency assistance – hours before RT, Fskar - mins/seconds before RT;

04/03/2024 Daily auctions on the SK-UA profile via JAO successfully launched;

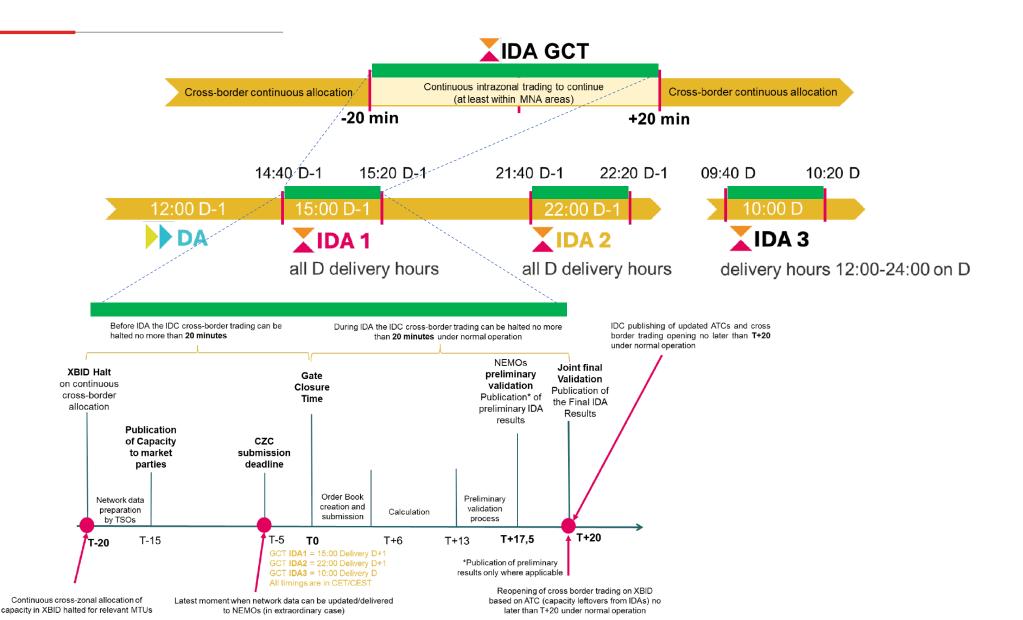
Discussions on the possibility to join SIDC/SDAC were Initiated.



Intraday timeframe – XBID solution in Slovakia (TSO perspective)



Intraday timeframe – Intraday Auctions (IDAs)



PICASSO - Platform for the International Coordination of Automated Frequency Restoration and Stable System Operation

Activation: Automatic

Number of project members (TSOs): 30

GL of platform: 01.06.2022 (CZ, DE and

AUT)

Currently in operation: 7 TSOs (+ITA)

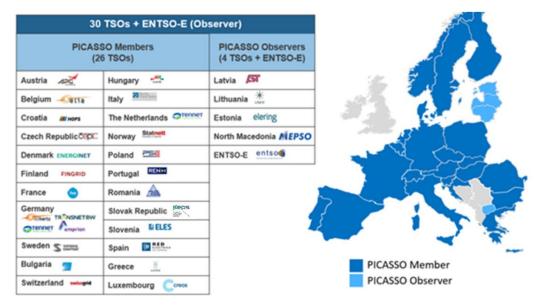
Market Time Unit (MTU): 4s

Full Activation Time: 7,5 min (target 5 min.)

Min. lenght of service provision: no limitation

DL for bid submittion: T - 25 min

GL - plan of SEPS: 5 November 2024



MARI - Manually Activated Reserves Initiative

Activation: "Manual"

Number of project members (TSOs): 33

GL of platform: 05.10.2022 (CZ and DE)

Currently in operation: 6 TSOs (+AUT)

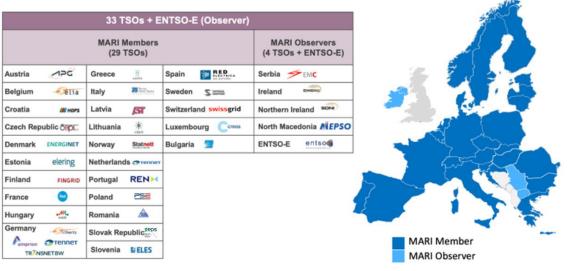
Market Time Unit(MTU): 15 min

Full Activation Time: 12,5 min (target 12,5 min.)

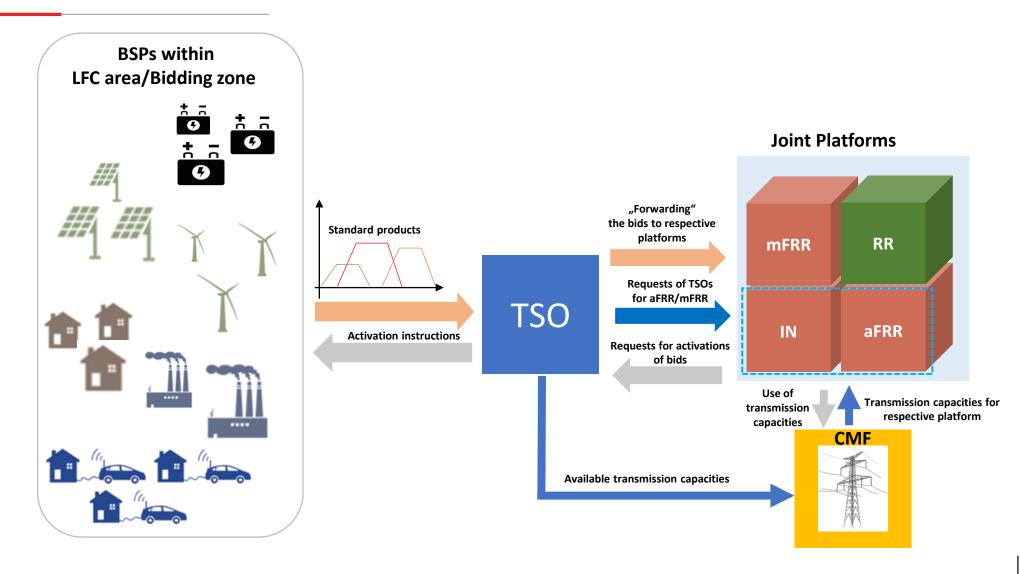
Min. lenght of service provision: 5 min

DL for bid submittion: T - 25 min

GL - plan of SEPS: 3 December 2024

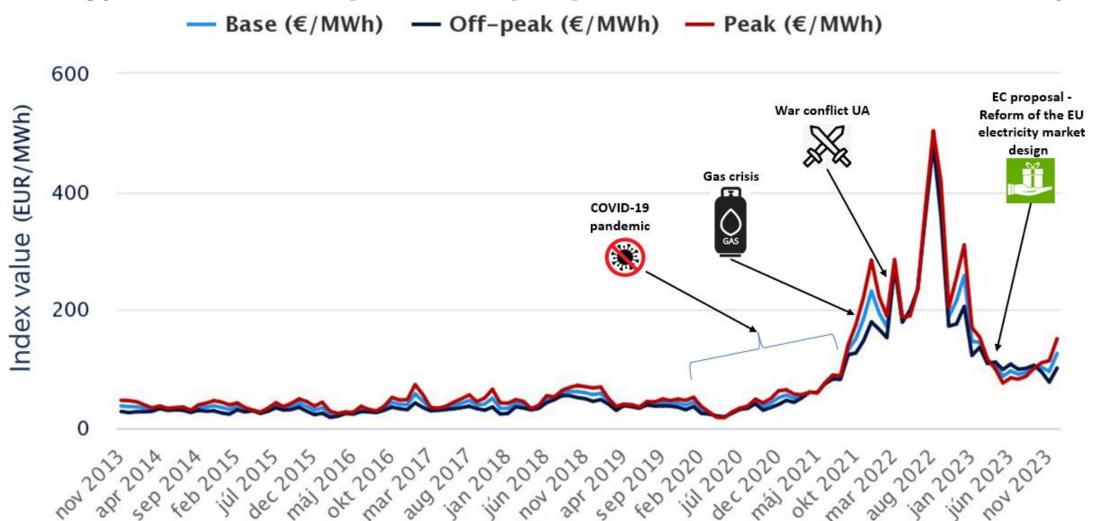


Balancing platforms for RR, mFRR and aFRR/IN



Trigger of Electricity Market Design Reform

Energy crisis → **development of spot prices: Index DT – OKTE (monthly)**



Legislative framework – goal and essence of the EMDR reform



The reform is devoted to 3 areas:

- I. End customer protection
- II. Increasing the stability and predictability of energy costs
- III. Support for investments in RES (in accordance with the Green Deal)

a) Electricity market design = amendment of 2 regulations and 2 directives:



- ❖ REGULATION (EU) 2019/943 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 June 2019 on the internal market for electricity
- ❖ REGULATION (EU) 2019/942 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 June 2019 establishing a European Union Agency for the Cooperation of Energy Regulators
- ❖ DIRECTIVE (EU) 2023/2413 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 October 2023 amending Directive (EU) 2018/2001, Regulation (EU) 2018/1999 and Directive 98/70/EC as regards the promotion of energy from renewable sources, and repealing Council Directive (EU) 2015/652
- ❖ DIRECTIVE (EU) 2019/944 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 June 2019 on common rules for the internal market for electricity and amending Directive 2012/27/EU

b) Protection against manipulations on wholesale energy markets = amendment of 2 regulations:



- REGULATION (EU) No 1227/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2011 on wholesale energy market integrity and transparency (REMIT)
- REGULATION (EU) 2019/942 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 June 2019 establishing a European Union Agency for the Cooperation of Energy Regulators







THANK YOU FOR YOUR ATTENTION!

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