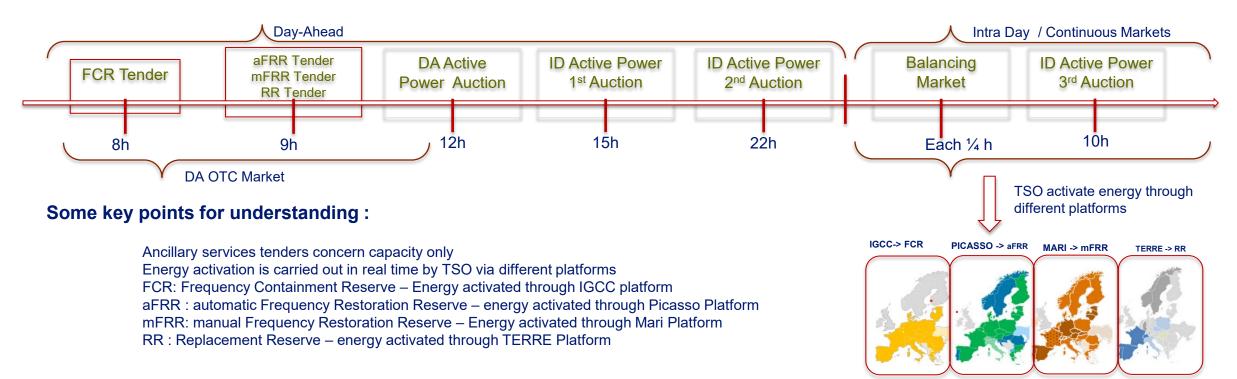


IEA Electricity Market Workshop

4th December 2025



Short-Term Markets in Europe / France



Why this market design is beneficial for the market?

- Auctions provide a comprehensive view of constraints and enable cross-borders reserves utilisation
- These different markets ensure cost-minimal coverage
- ➤ DA OTC (Over The Counter) market reveals a continuous price before auctions
- A price is revealed at each auction, thereby strengthening transparency
- Possible arbitrage opportunities enhance price representativeness

All these factors contribute to developing liquidity with greater transparency in price formation with cheapest reserves and maximise welfare.



A good market design is only part of the jigsaw puzzle

A good market design is critical but not the only necessary factor to create the conditions for the development of effective and liquid power wholesale markets

All successful markets – those with high traded volumes and a diverse range of market participants benefit from:

- Standardised contracts so all players can trade on the same general terms and conditions
- A range of standardised traded products that meet the needs of most market participants and that help pool liquidity
- High level supply-demand transparency
- Transparent and robust price references so everyone can see and trust the 'market price' (even when it is negative)
- A number of easily accessible trade execution platforms (both brokers and exchanges) to support liquidity and technology solutions to make trading easier and faster
- Low barriers to entry to the market and a stable and predictable regulatory environment which also brings confidence for investors
- Initiatives allowing operational and credit risks to be managed effectively (e.g. electronic trade and settlement confirmation)



Appendix

Ancillary services: two complementary remunerations: Capacity and Energy

	Ancillary services		Balancing Mechanism	
Capacity	Frequency Containment reserve FCR	automatic Frequency Restoration Reserve aFRR	manual Frequency Restoration Reserve mFRR	Replacement Reserve RR
Contracted Capacity Volume	516 MW (2025)	500 to 1100 MW	1000 MW Up 780 MW Down	500 MW Up
Contractual basis	Day-Ahead Tender	Day-Ahead Tender	Annual, quarterly and Day-Ahead tenders	Annual, quarterly and Day-Ahead tenders
Capacity Remuneration Price	Marginal Price from tender	Marginal Price from tender	Marginal Price from tender	Marginal Price from tender
Energy	Frequency Containment reserve FCR	automatic Frequency Restoration Reserve aFRR	manual Frequency Restoration Reserve mFRR	Replacement Reserve RR
Activation	Automatic	Automatic	Manual	Manual
Order	Decentralised (linked to frequency Hz)	Centralised (signal sent by RTE)	Centralised (order from RTE)	Centralised (order from RTE)
Mobilisation Delay	30 s	5 min	<13 min	>13 min
Energy Remuneration Price	Day-ahead Spot Price	Standard marginal price (PICASSO)	Specific auction price Standard marginal price (MARI)	Specific auction price Standard marginal price (TERRE)

