



Mathieu Fransen

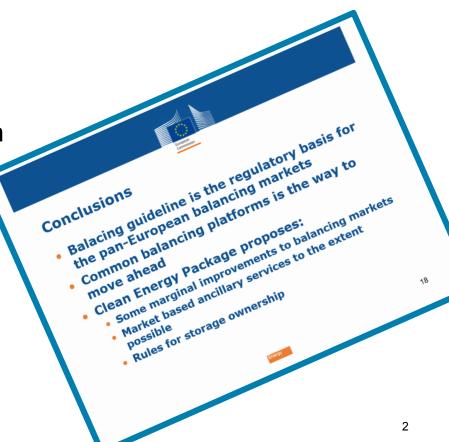


Last year ...

... you were promised a EU balancing market

 ... you were promised a Clean Energy package in addition

Did it materialize?





What happened since then?

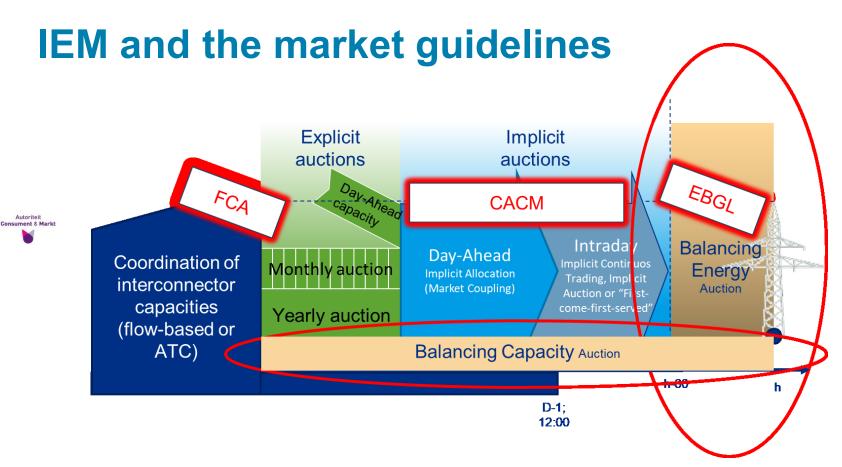
- On EBGL implementation
 - TSOs developed and proposed EU Balancing platform designs until december 2018 when they were submitted to NRAs
 - NRAs had then 6 months to find agreement and approve them (or not)...
- On the Clean Energy Package
 - Negotiations were finalized early 2019
 - Three "elektricity market design" Regulations and the Electricity
 Directive were published in the official journal on the 14th of June
 - Today 4th of July we celebrate the entry into force!



Content today

- On the EBGL implementation
 - Some background
 - What did the TSOs propose on the EU platforms
 - What was the NRA assessment
 - What's more to come in FBGI
- Balancing in the Clean Energy Package
 - Electricity regulation: Review of relevant Provisions around balancing
 - ACER regulation: what will change in the approval process





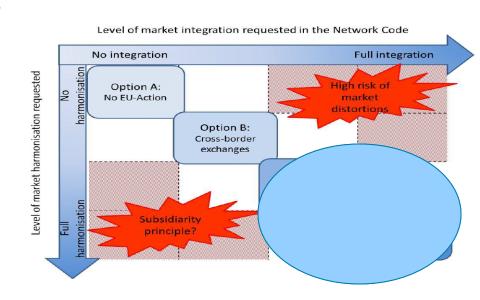
Source: ENTSO-E

What are the objectives of Balancing Market integration?

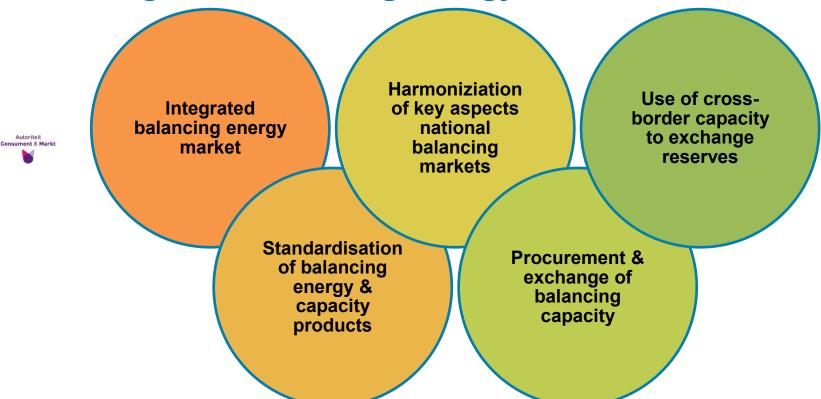
- Fostering effective competition, nondiscrimination and transparency in Balancing Markets;
- Integrating Balancing Markets and promoting the Exchanges of Balancing Services;

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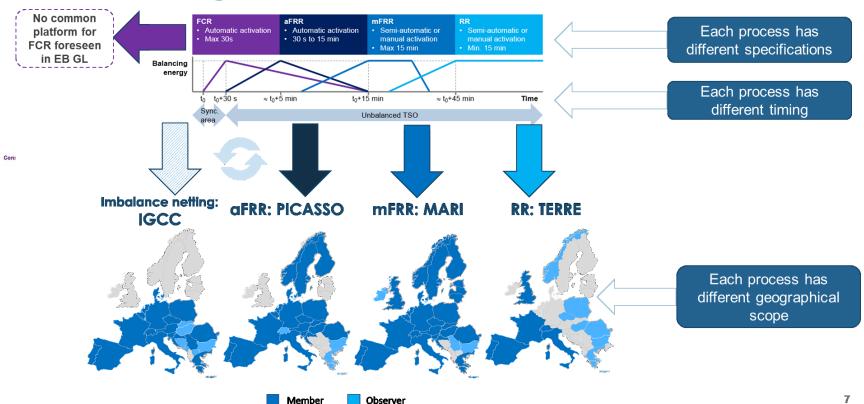
- **Ensuring Operational Security**;
- Facilitating the efficient and consistent functioning of DA, ID and Balancing Market;
- facilitating the participation of Demand Side Response
- facilitating the participation of Renewable Energy Sources



Five main blocks to reach an Integrated Balancing Energy Market



Balancing platforms per process/product



Source: ENTSO-E

Gathering academic views...



Would like to take the opportunity to get the academic view on some of the most difficult dilemma's encountered in last 1,5 year during the development of the EU platforms...

Dilemma 1:

Should EB platforms facilitate ...





Trade between market participants/BSPs



Procurement by TSOs from market participants/BSPs

Dilemma 2:

Should balancing energy price be set





per ISP/15 min = bidding period



per seconds – minutes = optimisation period

Dilemma 3:

Should dimensioning rules force TSOs





to keep bids unavailable for other TSOs and ensure local SoS



To allow wider access and to let the market ensure availability also between TSOs

Dilemma 3:

Should imbalance pricing provide...



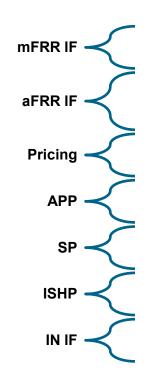


Cost recovery for TSOs for Balancing Energy costs



Provide incentives for Market participants to be balanced

Summary of NRA assessments



•Non-agreement between NRAs and Referral to ACER

•NRAs have diverging views on the allowance of scheduled counteractivations via the platform

Non-agreement between NRAs and Referral to ACER

•NRAs have diverging views on whether the proposal proposes a TSO-TSO model with a Common Merit Order

Non-agreement between NRAs and Referral to ACER

•NRAs have diverging views on the duration of BEPP on aFRR and mFRR cannot agree on approval

Agreement between NRAs on a Request for Amendment to all TSOs

•RFA agreed to generalize scope to Balancing Energy bids and include additional layer when possible

•Agreement between NRAs on a Request for Amendment to all TSOs

•RFA agreed to more generalize the settlement proposal for balancing energy & system constraint

Agreement between NRAs on a Request for Amendment to all TSOs

•RFA was agreed on main points on Value of Avoided activation & Dual pricing conditions

Agreement between NRAs on a 2nd Request for Amendment to all TSOs

Request to change proposed entity based on legal assessment





Balancing in the Clean Energy Package

Balancing

Balance responsibility

All market participants to be balance responsible or to delegate balance responsibility (exceptions for demonstration projects, RES-E below 400* kW - reducing to 200* kW for plant commissioned from 2026 - and for existing recipients of feed-in tariff)

Balancing capacity

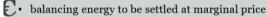
Capacity must be procured:

- · separately from balancing energy
- ▶• by TSOs may be facilitated on a regional basis
 - separately for upward and downward capacity (unless NRA exempts)★
 - a maximum of one day ahead, for one-day contracting periods, for at least 30% of balancing products★

Balancing energy/imbalances

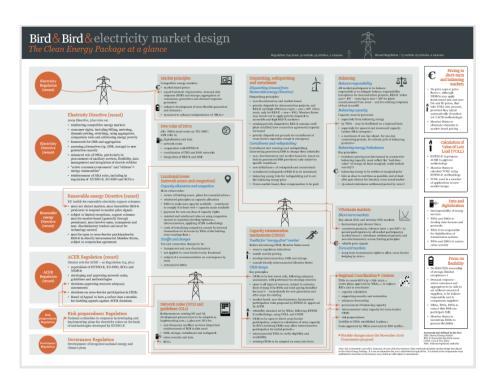
Key principles:

 imbalance pricing not determined in contract for balancing capacity; must reflect the "real-time value" of energy (at least marginal, could include scarcity?)



- bids as close to real time as possible, and at least after gate closure for intraday cross-zonal market
- 15-minute imbalance settlement period by 2021★





Conclusions

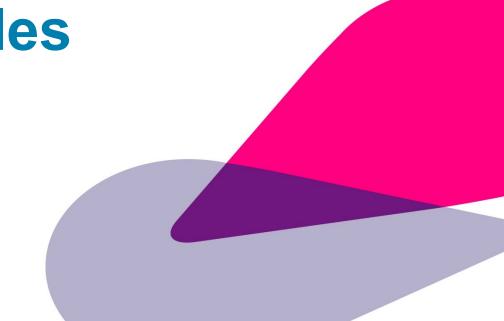
- Implementation of EBGL is a huge EU challenge
 - Not only IT/platform level but also on market design
- National terms & conditions balancing lay basis for the development of this market
- Role of ACER will increase in setting the EU design
 - Important that stakeholders & academia get involved in the discussion
- And... important also to trust the market with Balancing as long as everybody receives the same <u>information</u>



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Backup slides



Design principles of the NL Balancing market

Designed to include:

- Imbalance on average less attractive than wholesale market
 - Incentive to self manage Imbalance
 - Reduced Balancing Energy Volumes
- Balancing Energy on average more attractive than wholesale market:
 - Incentive to participate in Balancing Energy Market



Enhanced competition inside Balancing Energy Market

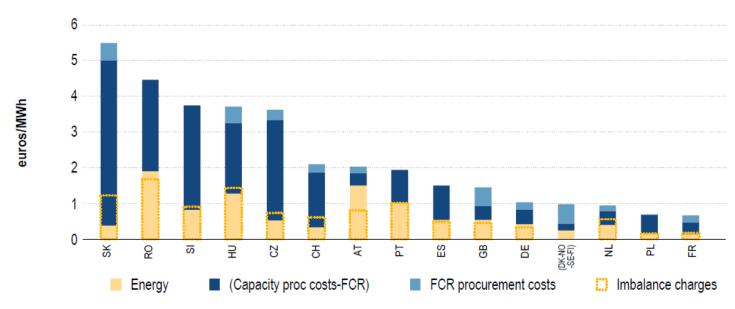
Designed to avoid:

- That balancing energy gain larger than Imbalance loss
 - And no incentive to deliver requested Balancing Energy
- Imbalance never attractive (always 2-price Imbalance)
 - and thus never an incentive to support system outside Balancing Energy Market
 - And reduced competition from outside Balancing Energy Market



Balancing markets overall costs

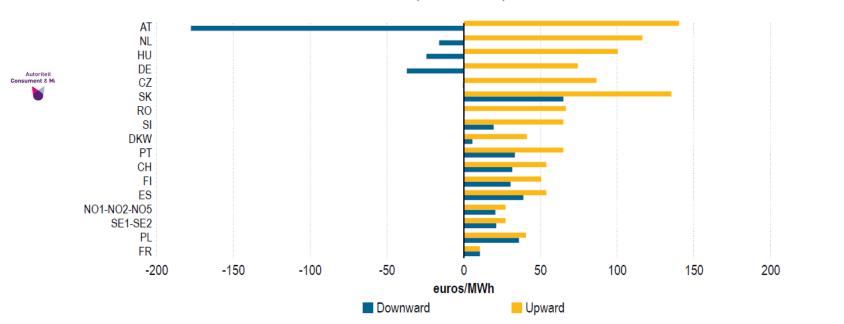
Figure 30: Overall costs of balancing (capacity and energy) and imbalance prices over national electricity demand in a selection of European markets – 2015 (euros/MWh)



Source: Data provided by NRAs through the EW template (2016) and ACER calculations.

...balancing energy price is among the highest...

Figure 53: Weighted average prices of balancing energy activated from aFRR (upward and downward activation) in a selection of EU markets – 2015 (euros/MWh)



... because it achieves an efficient cost level through incentives

Figure 31: DA price duration curve during periods of negative system imbalance, ID and imbalance prices (charged to 'short' BRPs) in Great Britain – 2015 (euros/MWh)

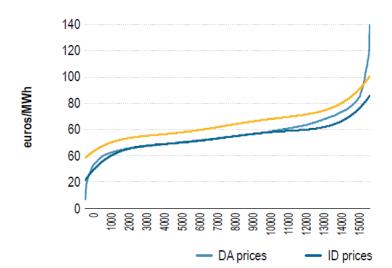


Figure 32: DA price duration curve during periods of negative system imbalance, ID and imbalance prices (charged to 'short' BRPs) in the Netherlands – 2015 (euros/MWh)

