

# CWE FB MC - Intraday Capacity Calculation in Flow Based context



Target model for Intraday is a Flow Based solution, but tailored for intraday requirements and data models

## General requirements for ID CC

- ▶ Regulation EC 714/2009 states that CWE TSOs shall establish an ID Capacity Calculation mechanism.
- ▶ CACM obliges CWE TSOs to finalize the FB ID methodology 19 months after the entry into force of FB DA, therefore by Q2 2017 the methodology should be provided.

## In the short/medium term:

- ▶ Impact of FB go live on ID ATC is investigated to define possible needs for improvements of the ID timeframe.
- ▶ A three-step approach for the implementation of FB ID is proposed by the CWE TSOs after this thorough analysis and with NRA, CACM and EC prerequisites taken into account.
- ▶ CWE NRAs are consulted throughout the development of FB ID and have received an approval package to formally approve the intermediate step towards FB ID. This is in accordance with Regulation EC 714/2009 (condition 1) to identify the views and proposals of all relevant parties during the decision-making process.

# CWE FB MC - Outcome of the impact assessment

## Improvements for the ID timeframe

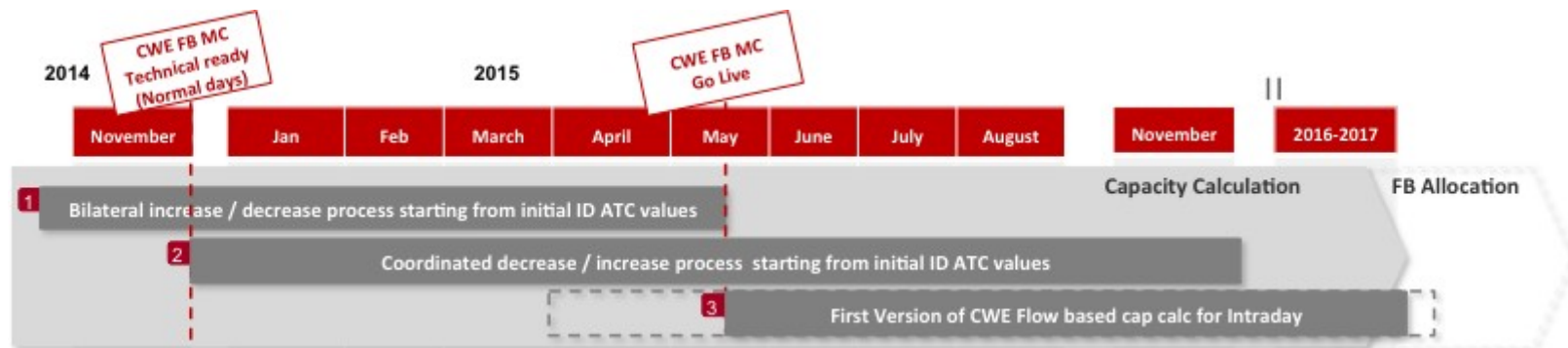


### In 2014, CWE TSOs investigated possible short-term improvements, after introduction of FB in DA

- ▶ An extensive list of improvements was ranked based on the criteria, such as complexity/time needed for implementation, CACM compliancy and congestion & balancing risk benefit.
- ▶ Two short-term improvements were selected:
  - **Sensitivity analysis for all borders**, to possibly increase/decrease ID ATC capacity (full re-computation).
  - Coordinate on RAs for the actual market direction/corner including PST taps and re-compute the FB-domain **based on D-2 CGMs**.

### Conclusions

- ▶ After thoroughly weighting pros and cons, CWE TSOs decided to start immediately with developing FB ID version 1 in line with CACM NC.
- ▶ ‘Short-term’ improvements required at least 1 year for implementation, without proof it would provide better (i.e. accurate) results considering the grid specificities of the CWE area
- ▶ As a stepwise approach, towards the development of FB ID version 1, CWE TSOs agreed to implement a pragmatic ID ATC process for all CWE borders
  - ID ATC Capacity Calculation for short term
    - a. Bilateral increase / decrease process starting from initial ID ATC values (implemented)
    - b. Coordinated increase / decrease process for all CWE borders (pending NRA approval)
  - FB ID Capacity Calculation for longer term solution (in progress, see next slide)



# CWE FB MC - Current status IDCC

## Challenges in developing FB ID



### A Flow-Based domain re-computation should be performed based on more recent Common Grid Models.

- ▶ More recent and accurate information will allow for more accurate result of the remaining capacity, but it will never guarantee an increase in capacity available for intraday.
- ▶ The DA process can be seen as a good starting point (from a conceptual and technical point of view).
- ▶ However some new and impacting challenges have to be considered:
  - How to update main inputs (CNEs, COs, RAs, GSKs, ECs, ...), consistent with new information contained in CGMs ?
  - How to optimize RAs around the DA clearing points and which objective to reach?
  - How to consider the 24 timestamps?
  - How to fit with more constraining timings?
  - How often re-computation is feasible and provides market's added values?
  - How to extract new ID ATCs out of the new FB domains?

**CWE TSOs have already started working on these challenges and foresee an implemented process by the end of 2017.**

**A more detailed planning will be provided at the next ESG meeting.**

**The market will be informed on the developments via the CWE CCG, the ESG and JAO website.**