



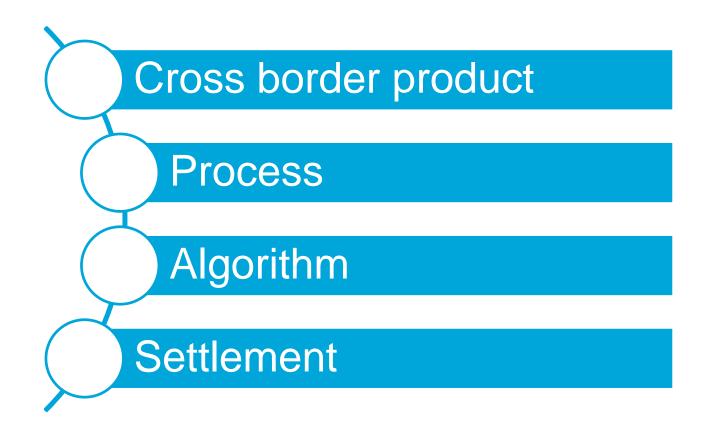


INTEGRATION OF MFRR MARKETS

Opportunity document for France and Germany

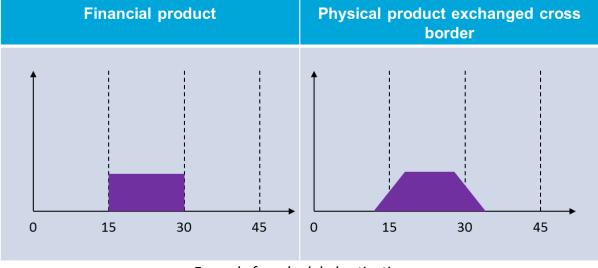
7th December 2016

OVERVIEW





• A focus on the product exchanged cross-border : local prequalification rules are left to national responsibility;



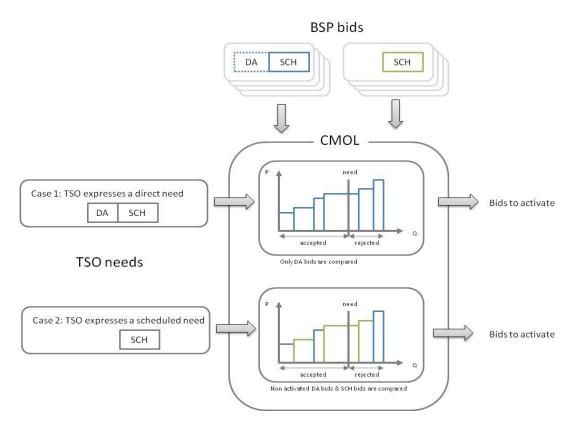
Example for scheduled activation

- This XB product can be either *direct or scheduled activated*: activation start can happen at any point in time. It has been agreed on the possibility for BSP to submit a bid that could only be scheduled activated;
- This XB product is always *scheduled deactivated*: deactivation is always based on an ISP boundary;
- The product lasts *between 15 and 30 minutes* (this refers to the length of the block settled): 15 minutes for scheduled activated products and between 16 and 30 minutes for direct activated products.



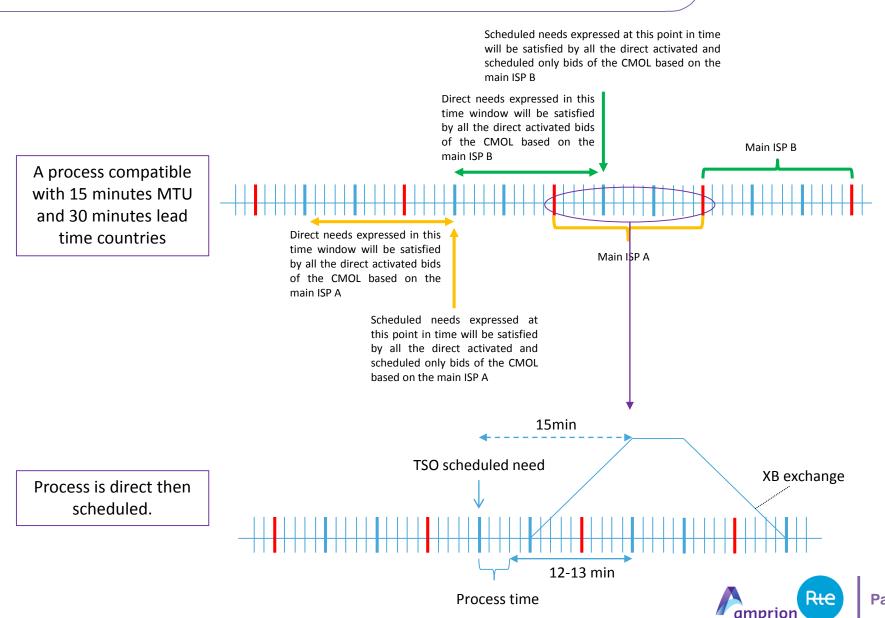
PROCESS – GENERAL PRINCIPLE

- BSPs can bid either with *direct or* scheduled only activated bids
 - Maximizes bids submitted to TSOs
- TSOs can express direct or scheduled needs
 - Direct needs allow TSOs to respect time to restore frequency targets (15 minutes)
 - Scheduled needs allows netting



 The objective would be to try to express scheduled needs as much as possible in order to take the most of netting potentials





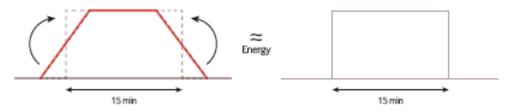
ALGORITHM

- General principle:
 - Clearing algorithm for scheduled needs
 - FCFS algorithm for direct needs
- Discussions around tolerance on needs optimizing the handling of indivisible bids
- No links in time
- Complex bids were not considered



SETTLEMENT

- Several pricing methods were studied : preference for "cross zonal marginal pricing"
- It is compliant with future EB GL:
 - Profits are shared in a "fair" way between countries;
 - Sets a fair competition between BSPs;
 - It generates congestion rent in case of congestion;
 - It is compatible with local imbalance pricing if deemed important for some countries.
- Settlement based on rectangles for pragmatic reasons:



- Complex discussions around direct activated bids settlement
 - BSPs should be incentivized to bid direct activated bids and not only scheduled activated bids, if they have the technical capability to do so.

