

Project reference

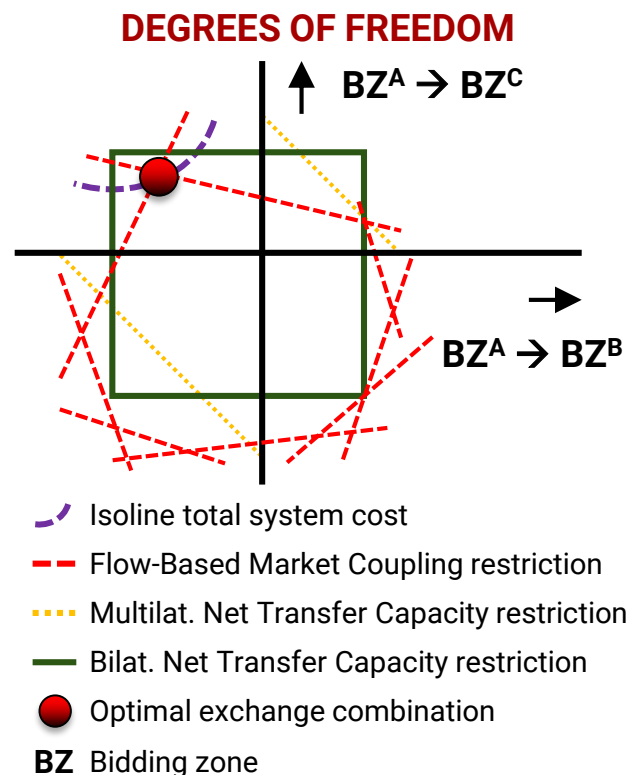
# Flow-based Market Coupling (FBMC) Simulation Assessment

## HOW WAS THE STARTING POINT?

The expansion of FBMC to the Core Capacity Calculation Region (CCR) has been planned for Q4 2020. East European countries like Poland and Czech Republic will join FBMC region and so the modelling difficulty increases.

## HOW WAS THE PROCEDURE?

The goal was to analyze unintuitive exchanges at the day-ahead market and to quantify the social welfare reductions of critical lines. First, the given electricity market simulation was inspected in-depth on-the-spot at the Transmission System Operator (TSO). Second, critical network elements and events were quantified and ranked for the social welfare impact. Finally, improvement potentials in model, data and workflow were identified, discussed and documented in an understandable way.



## WHAT WERE THE RESULTS?

One existing electricity market simulation software was checked in-depth and by independent experts in order to identify improvement potentials. Market anomalies and social welfare contributions were quantified and classified for the usage by the TSO during the CCR implementation.