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# Impact Assessment for Additional CBCO created during coordination

**DRAFT version – 18/10**

1. **Methodology**

The following results are simulated and published:

1. The new pre-solved Flow-Based domains and CBCOs, corresponding to the improved coordination of remedial action, applied to all reference days;
2. Historical and new market coupling results of the SPAIC days performed with Euphemia 9.5 (i.e. version currently in operation).

The data of the simulation results is joined to this document.

1. **Published datasets**

The table below summarizes the standard outputs of a SPAIC analysis that were agreed upon, including a reference to the joined datasets indicating where the corresponding information can be found.

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| **#** | **Expected output** | **Description** | **Dataset** |
| 1 | Description change and features of the typical days | A qualitative description of the foreseen change, period and expected high-level impact resulting from this  A description of the main quantitative features of the 10 typical days | * Foreseen change: Cover note * Description of the typical days:  Dataset 5 |
| 2B | Capacity calculation indicators  Dataset *updated historical benchmark*   * + 24 PTDF matrixes + RAM for each typical day and for all fixed labels   + Min/max Net positions   + volume | This is the dataset that is updated, including all methodological changes that are known at the time of the study | * PTDF matrices + RAM: Dataset 1 – Sheet “Updated Historical Benchmark 2B” * Min/Max NP: Dataset 2 – Sheet “Updated Historical Benchmark 2B” * Volume: Dataset 3 |
| 2C | Capacity calculation indicators  Dataset *including change*   * + 24 PTDF matrixes + RAM for each typical day and for all fixed labels   + Min/max Net positions   + volume | This is the dataset that includes the change that is subject of the impact assessment | * PTDF matrices + RAM: Dataset 1 – Sheet “SPAIC 2C” * Min/Max NP: Dataset 2 – Sheet “SPAIC 2C” * Volume: Dataset 3 |
| 3A | Market simulation indicators for the dataset *historical data* | After the capacity calculation is performed, also simulations will be performed to have insight in impact on prices   * Market price indicators (price convergence, price spreads, price volatility) * PRBs indicators (number of PRBs, magnitude of delta P) * Market clearing volumes (max executed {supply, Demand}) * Net positions * Welfare * Congestion income | All information can be found in Dataset 4.   * Market price indicators:   + price convergence: Sheet “P+NP”   + price spreads: Sheet “MarketSpread”   + price volatility: Sheet “Volatility” * PRBs indicators (number of PRBs, magnitude of delta P): Sheet “PRBs” * Market clearing volumes (max executed {supply, Demand}): Sheet “Volumes” * Net positions: Sheet “P+NP” * Welfare: Sheet “Social Welfare” * Congestion income: Sheet “Social Welfare” |
| 3B | Market simulation indicators for the dataset *including changes* |