MEMORANDUM

TO Market participants CWE DATE 17 November 2020

Impact assessment for the planned commissioning of the interconnection between Germany and Norway (NordLink)

1. Background

NordLink is the first interconnector between Germany and Norway, linking the DE/LU and NO2 bidding zones. After commissioning, NordLink will be an integral part of the Single Day Ahead Coupling (SDAC) and the Single Intraday Coupling (SIDC).

In order to assess the impact of NordLink on capacities in Central Western Europe (CWE), a Light SPAIC has been performed. A Light SPAIC involves the following steps:

- Selection of seven reference days according to predefined criteria.
- Modification of the grid model files for all timestamps of the seven reference days by applying the planned outage.
- Recalculation of the flow-based parameters for all timestamps of the seven reference days with the modified grid models.
- Publication of the flow-based parameters (historical and modified) in an Urgent Market Message.

Both, full import (NO>DE) and full export (DE>NO) via NordLink have been analysed.
Detailed information on the Go Live of the interconnector will be published in a separate market message.

2. Selection of the reference days

Light SPAIC methodology defines seven reference days, to be selected from a four-week period according to predefined criteria. Reference days were selected from the period Juli 25 – August 16, 2020.[1]
The reference days are as follows.

SPAIC day #	Criterion	Date selected
1	Sunday in the available period with the lowest wind infeed in CWE (DE as proxy)	16-08-2020
2	Workday in the available period with the highest wind infeed in CWE (DE as proxy)	29-07-2020
3	Workday or Saturday in the available period with average wind/load	05-08-2020
4	Smallest volume of the Flow Based Domain	14-08-2020

[1] Much to our regret, the underlying reference period and the go-live date of NordLink lead to a time lag that is longer than preferred.

5	Largest volume of the Flow Based Domain	25-07-2020
6	Lowest exchanges in CWE	15-08-2020
7	Highest exchanges in CWE	03-08-2020

3. Overview of the datasets

Category	Expected output	Description	File
1	Description change and features of the reference days	A qualitative description of the foreseen change, period and expected high-level impact resulting from this	Cover note
		A description of the main quantitative features of the 7 reference days	Dataset 5
2A	Capacity calculation indicators – Dataset 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 used as a reference for the change that is subject of the change	PTDF matrices + RAM: Dataset 1, sheet "2a – Historical"
			Min/Max NP: Dataset 2, sheet "2a – Historical"
			Volume: Dataset 3, sheet "2a – Historical"
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 "2c – SPAIC"
			Min/Max NP: Dataset 2, sheet "2c – SPAIC"
			Volume: Dataset 3, sheet "2c – SPAIC"

Please note that a Light SPAIC does not include market simulations, therefore dataset 4 (simulated market results) is not available for this impact assessment.