



IMPACT ASSESSMENT FOR THE COMMISSIONING OF THE ELIA 380KV LINE BETWEEN ZANDVLIET AND LILLO

Brussels, 24/02/2021 16:00

CONTEXT

In the CWE Consultative Group, accordingly to the market message on 11/11/2019 it was agreed that TSOs would perform a Light Standard Procedure for Assessing the Impact of Changes (Light SPAIC) for grid outages with a duration exceeding 6 weeks.

A Light SPAIC analysis consists of a comparison of flow-based domains for 7 typical “reference” days, selected by the relevant TSO(s) in the period between 12 and 8 weeks preceding the outage, in order to estimate the impact of a change in grid topology.

Elia plans the commissioning of the 380kV line between the Zandvliet and Lillo substations. The capacity of this commissioned line is 1800 MVA. The commissioning is currently planned to start on 19/03/2021 (week 11). The most recent information regarding the commissioning period can be retrieved from the Entso-e Transparency website (transparency.entsoe.eu).

This document provides some background to the results of the performed Light SPAIC analysis.

In line with the CWE Light SPAIC methodology, the analysis made here gives the relevant Flow-Based parameters of the historical FB domain and the domain obtained by updating the historical grid with the planned outage.

Element Name	EIC
Zandvliet - Lillo 380kV	380.65 /

1. Methodology

The following results are simulated and published:

1. The new pre-solved Flow-Based domains and CBCOs, corresponding with the most probable grid topology (when writing this document) during the commissioning period applied to all reference days;

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



2. 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.

#	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 7 typical days	<ul style="list-style-type: none"> • Foreseen change: Cover note • Description of the typical days: Dataset 5
2A	Capacity calculation indicators Dataset <u>historical benchmark</u> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • PTDF matrixes + 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 <u>including change</u> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • PTDF matrixes + RAM: Dataset 1 – Sheet “2C - SPAIC” • Min/Max NP: Dataset 2 – Sheet “2C - SPAIC” • Volume: Dataset 3 – Sheet “2C - SPAIC”