

SWE Intraday Capacity Calculation

internal report

This document reports results of the external parallel run from the 18/10/2021 to the 24/10/2021.

FR-ES NTCs

	2:30				5:30				9:30			
	ES-FR		FR-ES		ES-FR		FR-ES		ES-FR		FR-ES	
	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run
18-10-2021	900	1100	1600	2150	850	1050	1650	2150	350	450	2200	2300
19-10-2021	900	1050	1600	2300	800	1000	1650	2250	50	300	2250	2350
20-10-2021	950	1050	1750	2350	850	1150	1550	1400	150	400	2300	2400
21-10-2021	1150	1550	1400	2150	1350	1600	1400	2050	950	900	2000	2400
22-10-2021	1200	1350	1200	2100	1350	1400	1200	2100	700	800	1850	2350
23-10-2021	1100	1100	1450	1450	1150	1150	1500	1500	750	750	2050	2050
24-10-2021	1150	1100	1750	1700	1200	1250	1650	1500	900	1050	1950	1900

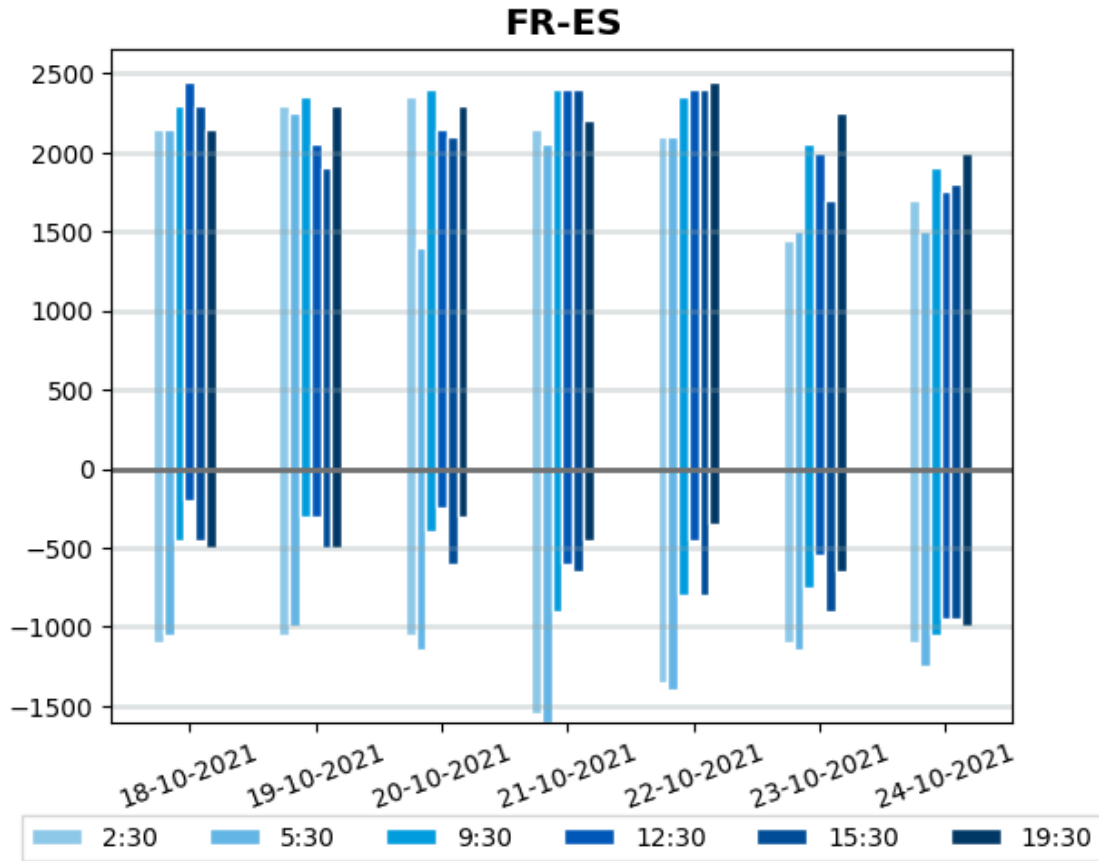
*Yellow cells represent IT issues for these borders and time stamps during the process.

	12:30				15:30				19:30			
	ES-FR		FR-ES		ES-FR		FR-ES		ES-FR		FR-ES	
	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run
18-10-2021	150	200	2450	2450	500	450	1950	2300	400	500	2150	2150
19-10-2021	50	300	2150	2050	500	500	1900	1900	150	500	2250	2300
20-10-2021	100	250	2250	2150	600	600	2100	2100	500	300	2200	2300
21-10-2021	550	600	1950	2400	350	650	1850	2400	550	450	2200	2200
22-10-2021	600	450	1750	2400	600	800	1800	2400	300	350	2450	2450
23-10-2021	550	550	2000	2000	900	900	1700	1700	650	650	2250	2250
24-10-2021	950	950	1900	1750	1100	950	1650	1800	550	1000	2200	2000

*Yellow cells represent IT issues for these borders and time stamps during the process.

Comments

On FR-ES border, sixteen computations failed during this second week of external parallel run. All failed computations were replaced by D-2 values as fallback procedure.



PT-ES NTCs

	2:30				5:30				9:30			
	ES-PT		PT-ES		ES-PT		PT-ES		ES-PT		PT-ES	
	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run
18-10-2021	4320	4230	3420	4095	4320	4185	3510	4185	4815	4860	3150	3285
19-10-2021	4365	4365	3465	3510	4320	4320	3510	3645	4680	4950	3510	3510
20-10-2021	4050	3690	3285	3330	3960	3690	3465	3600	4230	4320	3105	3600
21-10-2021	4140	4005	3780	3735	4095	4095	3735	3780	4275	4275	3690	3735
22-10-2021	4275	4140	3870	4005	4320	4095	3915	4095	4140	4320	3735	3780
23-10-2021	4275	4275	3915	3915	4455	4455	4050	4050	4500	4500	3690	3690
24-10-2021	4545	4095	3780	3510	4410	3915	3825	3555	4185	4005	3600	3375

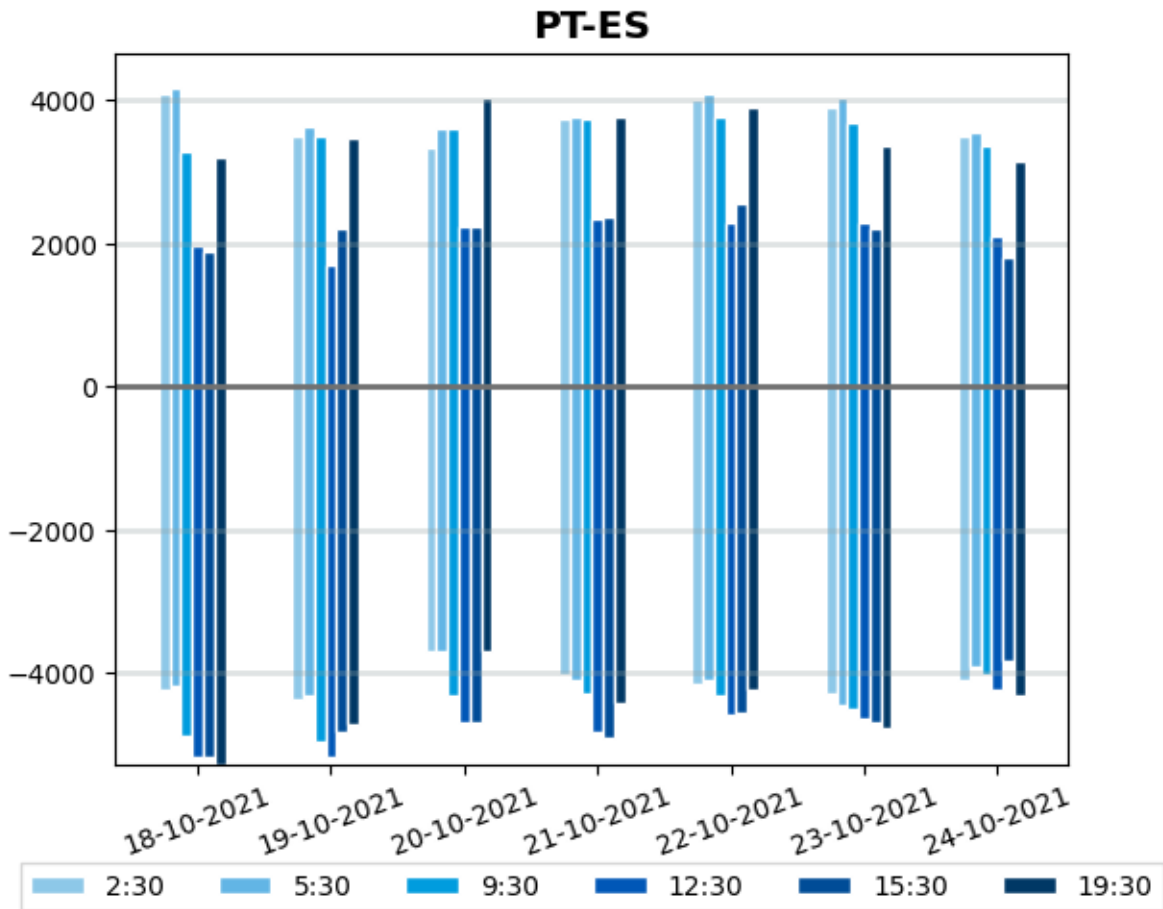
*Yellow cells represent IT issues for these borders and time stamps during the process. Blue cells represent the IT issues that do not imply replacement by D-2 values.

	12:30				15:30				19:30			
	ES-PT		PT-ES		ES-PT		PT-ES		ES-PT		PT-ES	
	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run
18-10-2021	5130	5175	2790	1980	4905	5175	2250	1890	5355	5265	3015	3195
19-10-2021	5040	5175	2565	1710	4815	4815	2205	2205	4815	4725	3195	3465
20-10-2021	4410	4680	2880	2250	4680	4680	2250	2250	4140	3690	3465	4050
21-10-2021	4815	4815	2520	2340	4770	4905	2295	2385	4140	4410	3825	3780
22-10-2021	4770	4590	2475	2295	4680	4545	2250	2565	4410	4230	3645	3915
23-10-2021	4635	4635	2295	2295	4680	4680	2205	2205	4770	4770	3375	3375
24-10-2021	4320	4230	2475	2115	4905	3825	2115	1800	4950	4320	3735	3150

*Yellow cells represent IT issues for these borders and time stamps during the process. Blue cells represent the IT issues that do not imply replacement by D-2 values.

Comments

On ES-PT border, twenty-seven computations failed during this second week of external parallel run. Sixteen of them were replaced by D-2 values as fallback procedure.



Limiting elements FR->ES

Please find below the 3 limiting elements appearing more often over the period:

CNEs and associated Contingencies		CNE Location	Frequency (%)
#1	Tie Line 220 kV	FR-ES	74.1 %
	N-1 Contingency 400 kV [FR]		8.0 %
	N-1 Contingency 400 kV [FR-ES]		59.8 %
	N-1 Contingency 220 kV [FR]		6.2 %
#2	Tie Line 220 kV	FR-ES	24.1 %
	N-1 Contingency [ES]		0.9 %
	N-1 Contingency [ES]		6.2 %
	N-1 Contingency 400 kV [FR]		7.1 %
	N-1 Contingency 400 kV [FR]		9.8 %
#3	Branch 220 kV	ES	1.8 %
	Base Case		0.9 %
	N-1 Contingency 400 kV [FR]		0.9 %

Limiting elements ES->FR

Please find below the 2 limiting elements appearing more often over the period:

CNEs and associated Contingencies		CNE Location	Frequency (%)
#1	Tie Line 220 kV	FR-ES	76.8 %
	N-1 Contingency 400 kV [FR]		8.9 %
	N-1 Contingency 400 kV [FR-ES]		67.9 %
#2	Tie Line 220 kV	FR-ES	23.2 %
	N-1 Contingency 400 kV [ES]		3.6 %
	N-1 Contingency 400 kV [FR]		9.8 %
	N-1 Contingency 220 kV [FR-ES]		0.9 %
	N-1 Contingency 400 kV [FR-ES]		6.2 %
	N-2 Contingency 400 kV [ES]		2.7 %

Limiting elements PT->ES

Please find below the 2 limiting elements appearing more often over the period:

CNEs and associated Contingencies		CNE Location	Frequency (%)
#1	Tie Line 400 kV	ES-PT	69.1 %
	N-2 Contingency 400 kV [ES-PT]		69.1 %
#2	Angle Limitation	PT	30.9 %
	N-2 Contingency 400 kV [ES-PT]		30.9 %

Limiting elements ES->PT

Please find below the 5 limiting elements appearing more often over the period:

CNEs and associated Contingencies	CNE Location	Frequency (%)
#1 Tie Line 400 kV	ES-PT	59.2 %
N-2 Contingency 400 kV [ES-PT]		59.2 %
#2 Angle Limitation	PT	18.4 %
N-2 Contingency 400 kV [ES-PT]		19.4 %
#3 Branch 400 kV	PT	10.2 %
N-2 Contingency 400 kV [ES-PT]		10.2 %
#4 GLSK limitation		4.1 %
Base Case		4.1 %
#5 Branch 400 kV	ES	3.1 %
N-1 Contingency 400 kV [ES-PT]		3.1 %

*GLSK limitation row includes GLSK limitations and flow divergences divisions