

SWE Intraday Capacity Calculation

external report

This document reports results of the external parallel run from the 25/10/2021 to the 31/10/2021.

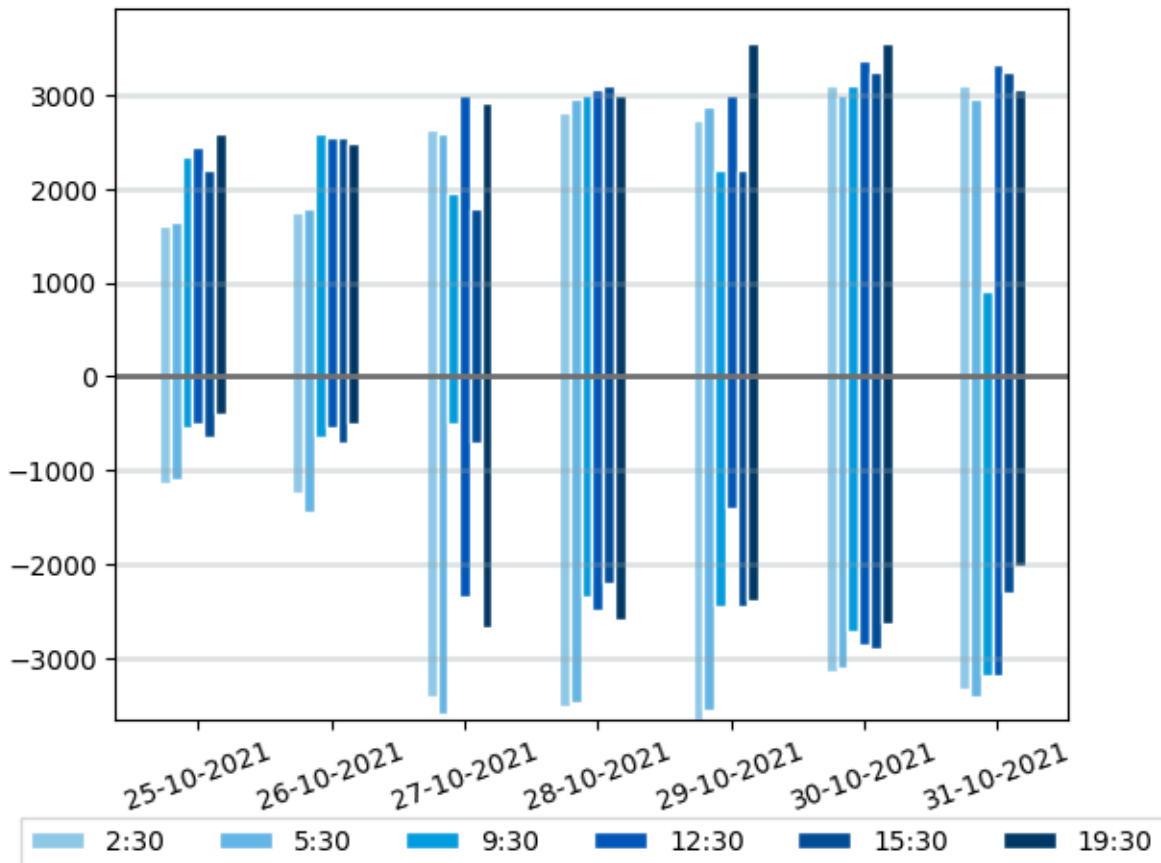
FR-ES NTCs

	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
25-10-2021	1050	1150	1600	1600	1250	1100	1500	1650	700	550	2200	2350
26-10-2021	850	1250	1650	1750	900	1450	1750	1800	300	650	2590	2590
27-10-2021	1100	3422	1750	2636	1200	3607	1650	2590	500	500	2497	1950
28-10-2021	3098	3515	2728	2821	3237	3468	2913	2960	2590	2350	2960	3006
29-10-2021	3376	3653	2867	2728	3376	3561	2960	2867	2450	2450	2200	2200
30-10-2021	3376	3145	2867	3098	3376	3098	2775	3006	2913	2728	3006	3098
31-10-2021	3422	3330	3098	3098	2300	3422	2960	2960	3376	3191	3330	911

	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
25-10-2021	350	500	2450	2450	450	650	2300	2200	300	400	2590	2590
26-10-2021	50	550	2636	2543	200	700	2450	2543	250	500	2728	2497
27-10-2021	400	2350	2543	3006	500	700	2350	1800	500	2682	2497	2913
28-10-2021	2150	2497	3006	3052	2300	2200	3006	3098	2400	2590	2913	3006
29-10-2021	1450	1400	2960	3006	2450	2450	2200	2200	2400	2400	3561	3561
30-10-2021	2728	2867	3237	3376	3006	2913	3052	3237	2960	2636	3006	3561
31-10-2021	3145	3191	3191	3330	3237	2300	3098	3237	2775	2022	3006	3052

* 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. Red cells represent errors when applying the D-2 values.

FR-ES



Comments

On FR-ES border, 4 computations failed during this week of external parallel run. 3 of them were replaced by D-2 values as fallback procedure.

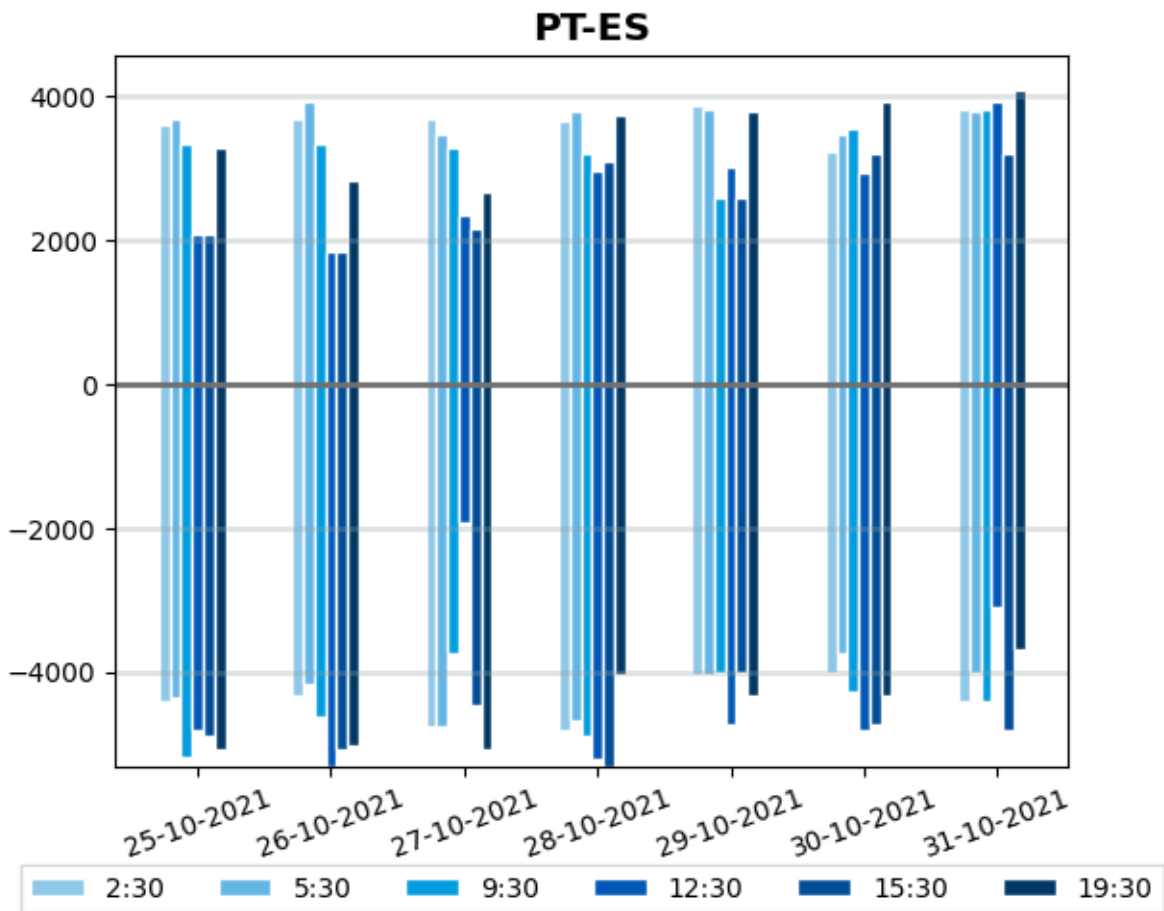
PT-ES NTCs

	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
25-10-2021	4590	4410	3735	3600	4545	4365	3825	3690	5040	5175	3105	3330
26-10-2021	4230	4320	3645	3690	4095	4185	3735	3915	4815	4635	3420	3330
27-10-2021	4590	4770	3285	3690	4545	4770	3420	3465	5220	3735	3195	3285
28-10-2021	4680	4815	3555	3645	4455	4680	3780	3780	4635	4905	3195	3195
29-10-2021	4185	4050	4095	3870	4230	4050	4185	3825	3999	3999	2600	2600
30-10-2021	3960	4005	3825	3240	3735	3735	3690	3465	4140	4275	3150	3555
31-10-2021	4500	4410	3690	3825	4500	4005	3915	3780	3150	4410	3600	3825

*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. Red cells represent errors when applying the 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
25-10-2021	4815	4815	1935	2070	5130	4905	2115	2070	4950	5085	3600	3285
26-10-2021	5040	5310	2205	1845	5220	5085	2250	1845	4590	5040	3150	2835
27-10-2021	5175	1935	2160	2340	5175	4455	2160	2160	4950	5085	3150	2655
28-10-2021	5040	5220	2790	2970	5265	5310	2520	3105	4050	4050	3825	3735
29-10-2021	4680	4725	3420	3015	3999	3999	2600	2600	4320	4320	3780	3780
30-10-2021	4635	4815	2925	2925	4455	4725	3555	3195	3510	4320	4095	3915
31-10-2021	3150	3105	3105	3915	4860	4815	2970	3195	4140	3690	3960	4095

*Yellow cells represent IT issues for these borders and time stamps during the process. Red cells represent errors when applying the D-2 values.



Comments

On PT-ES border, 10 computations failed during this week of external parallel run. 9 of them were replaced by D-2 values as fallback procedure.

Limiting elements FR->ES

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

	CNEs and associated Contingencies	CNE Location	Frequency (%)
#1	Tie Line 220 kV	FR-ES	41.1 %
	Contingency [ES]		0.9 %
	N-1 Contingency 400 kV [FR-ES]		40.2 %
#2	Tie Line 400 kV	FR-ES	17.9 %
	N-1 Contingency [FR]		17.9 %
#3	Tie Line 400 kV	FR-ES	16.1 %
	Contingency [ES]		9.8 %
	N-1 Contingency 400 kV [FR-ES]		6.2 %
#4	Branch 400 kV	FR	8.9 %
	Base Case		8.9 %
#5	Branch 220 kV	ES	4.5 %
	Base Case		4.5 %

Limiting elements ES->FR

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

	CNEs and associated Contingencies	CNE Location	Frequency (%)
#1	Tie Line 220 kV	FR-ES	45.5 %
	N-1 Contingency 400 kV [ES-FR]		45.5 %
#2	Tie Line 225 kV	FR-ES	29.5 %
	Contingency 400 kV [ES]		1.8 %
	N-1 Contingency 400 kV [FR]		17.9 %
	N-1 Contingency 400 kV [FR-ES]		9.8 %
#3	Tie Line 400 kV	FR-ES	16.1 %
	Base Case		16.1 %
#4	Branch	FR	2.7 %
	N-1 Contingency 400kV [FR]		2.7 %
#5	Branch 400 kV	ES	2.7 %
	Base Case		2.7 %

Limiting elements PT->ES

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

	CNEs and associated Contingencies	CNE Location	Frequency (%)
#1	Angle Limitation	PT	66.2 %
	N-2 Contingency 400 kV [PT-ES]		60.9 %
	N-1 Contingency 400 kV [PT-ES]		5.3 %
#2	Tie Line 400 kV	ES-PT	19.5 %
	N-2 Contingency 400 kV [PT-ES]		19.5 %
#3	GLSK limitation		12.8 %
	Base Case		12.8 %

*GLSK limitation row includes GLSK limitations and flow divergences divisions

Limiting elements ES->PT

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

	CNEs and associated Contingencies	CNE Location	Frequency (%)
#1	GLSK limitation		36.1 %
	Base Case		36.1 %
#2	Tie Line 400 kV	ES-PT	24.1 %
	N-2 Contingency 400 kV [ES-PT]		24.1 %
#3	Branch	PT	21.1 %
	N-2 Contingency 400 kV [PT]		21.1 %
#4	Angle Limitation	PT	12.0 %
	N-2 Contingency 400 kV [ES-PT]		12.0 %
#5	Tie Line 400 kV	ES-PT	3.8 %
	N-1 Contingency 400 kV [ES-PT]		3.8 %

*GLSK limitation row includes GLSK limitations and flow divergences divisions