

# SWE Intraday Capacity Calculation

## external report

This document reports results of the external parallel run from the 31/01/2022 to the 06/02/2022.

### FR-ES NTCs

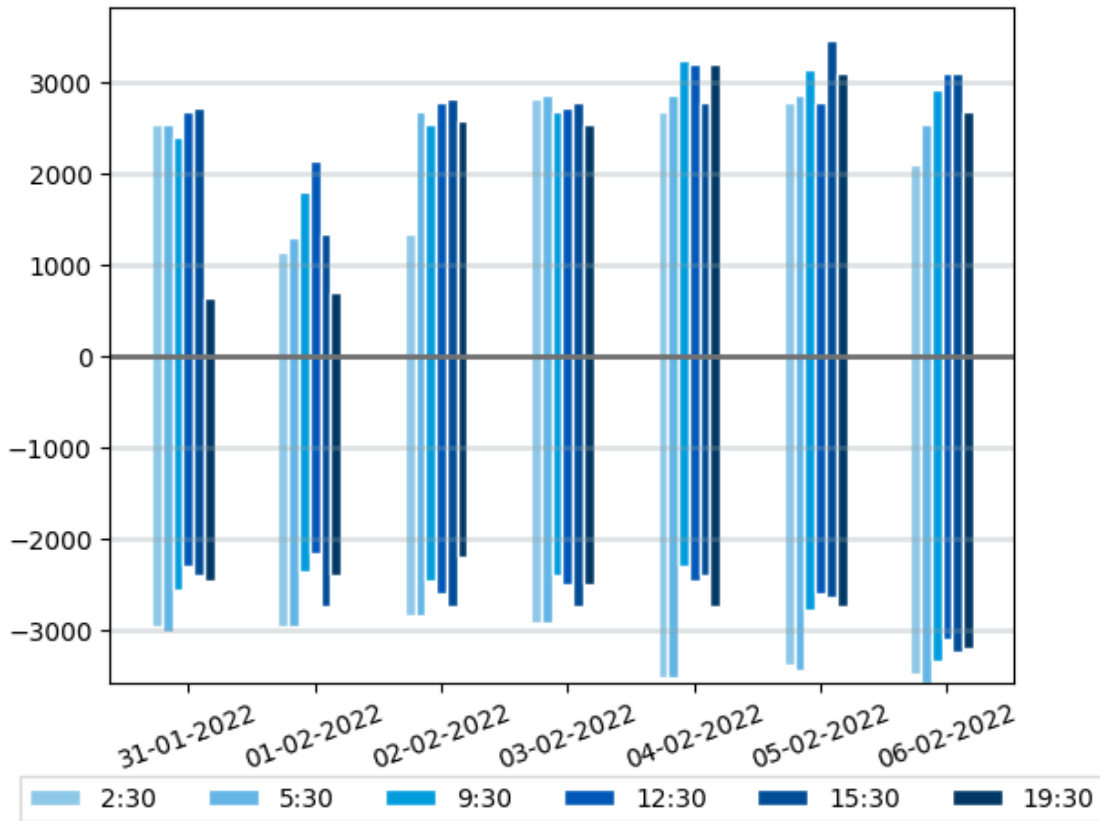
	2:30				5:30				9:30			
	ES-FR		FR-ES		ES-FR		FR-ES		ES-FR		FR-ES	
	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run	D-2	IDCC 1st run
31-01-2022	2960	2960	2543	2543	3006	3006	2543	2543	2543	2543	2728	2400
01-02-2022	2821	2960	2150	1150	2960	2960	2497	1300	2200	2350	2636	1800
02-02-2022	2913	2821	2400	1350	2913	2821	2590	2682	2300	2450	2590	2543
03-02-2022	2913	2913	2821	2821	2913	2913	2867	2867	2400	2400	2682	2682
04-02-2022	2775	3515	2682	2682	2821	3515	2728	2867	2497	2300	2590	3237
05-02-2022	2700	3376	2799	2775	3237	3422	2867	2867	2775	2775	3006	3145
06-02-2022	3468	3468	2100	2100	3515	3561	2543	2543	3145	3330	2775	2913

\*Blue cells represent IT issues that do not require IDCC value replacement. Yellow cells represent IT issues that require IDCC values replacement by D-2 values. Red cells represent IT issues that requires IDCC values replacement by LTCC values (D-2 values were not available).

	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
31-01-2022	2300	2300	2682	2682	2400	2400	2728	2728	2150	2450	2728	650
01-02-2022	2150	2150	3468	2150	2100	2728	2590	1350	2150	2400	2543	700
02-02-2022	2300	2590	2543	2775	2400	2728	2682	2821	2150	2200	2543	2590
03-02-2022	2250	2497	2543	2728	2250	2728	2728	2775	2100	2497	2497	2543
04-02-2022	2400	2450	2682	3191	2400	2400	2775	2775	2300	2728	2590	3191
05-02-2022	2590	2590	3330	2775	2775	2636	3468	3468	2636	2728	2775	3098
06-02-2022	2913	3098	2867	3098	3237	3237	3098	3098	2960	3191	2497	2682

\*Blue cells represent IT issues that do not require IDCC value replacement. Yellow cells represent IT issues that require IDCC values replacement by D-2 values. Red cells represent IT issues that requires IDCC values replacement by LTCC values (D-2 values were not available).

## FR-ES



### Comments

On FR-ES border, 39 computations failed during this week of external parallel run. 12 failed computations were replaced by D-2 values as fallback procedure. 8 failed computations were replaced by LTTC values as fallback procedure.

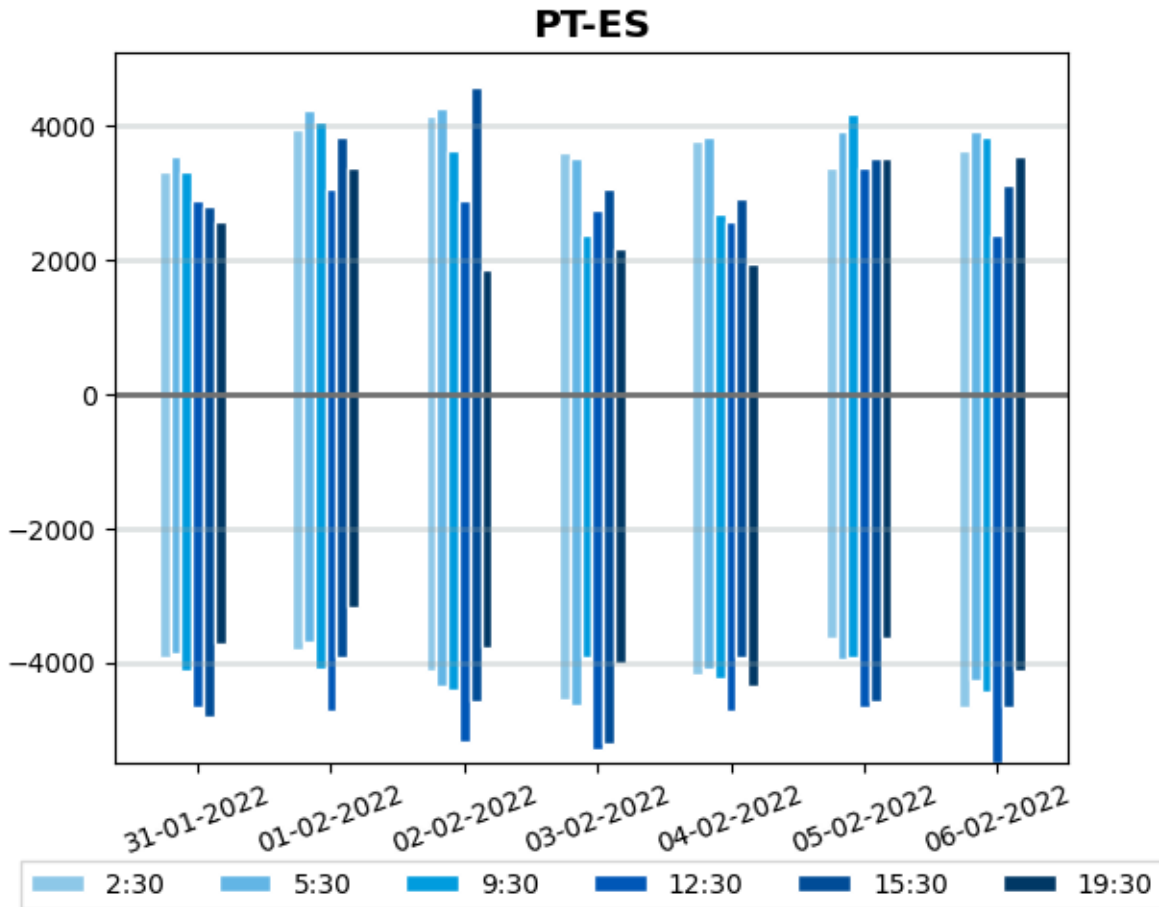
### PT-ES NTCs

	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
31-01-2022	3915	3915	3330	3330	3870	3870	3555	3555	4005	4140	3195	3330
01-02-2022	4095	3825	4050	3960	4050	3690	4095	4230	3195	4095	3960	4050
02-02-2022	4140	4140	3915	4140	4185	4365	4050	4275	4140	4410	3555	3645
03-02-2022	4545	4545	3600	3600	4635	4635	3510	3510	3915	3915	2385	2385
04-02-2022	4275	4185	3915	3780	4410	4095	3780	3825	3798	4230	2700	2700
05-02-2022	1999	3645	4300	3375	3555	3960	3915	3915	3645	3915	4095	4185
06-02-2022	4680	4680	3645	3645	4680	4275	3690	3915	4050	4455	4050	3825

\*Blue cells represent IT issues that do not require IDCC value replacement. Yellow cells represent IT issues that require IDCC values replacement by D-2 values. Red cells represent IT issues that requires IDCC values replacement by LTCC values (D-2 values were not available).

	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
31-01-2022	4680	4680	2880	2880	4815	4815	2790	2790	3690	3735	2790	2565
01-02-2022	3690	4725	3330	3060	3825	3915	3150	3825	3195	3195	3330	3375
02-02-2022	4590	5175	2925	2880	4590	4590	2970	4590	4230	3780	1710	1845
03-02-2022	4410	5310	2565	2745	4230	5220	3021	3060	3589	4005	1845	2160
04-02-2022	4140	4725	2520	2565	3915	3915	2925	2925	3525	4365	1980	1935
05-02-2022	4275	4680	3420	3375	4365	4590	3420	3510	3510	3645	3555	3510
06-02-2022	4860	5490	3163	2385	4680	4680	3125	3125	3915	4140	3555	3555

\*Blue cells represent IT issues that do not require IDCC value replacement. Yellow cells represent IT issues that require IDCC values replacement by D-2 values. Red cells represent IT issues that requires IDCC values replacement by LTCC values (D-2 values were not available).



#### Comments

On PT-ES border, 21 computations failed during this week of external parallel run. 12 failed computations were replaced by D-2 values as fallback procedure. 9 failed computations were replaced by LTCC 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 (%)
<b>#1</b>	<b>Tie Line 400 kV</b>	<b>FR-ES</b>	<b>31.8 %</b>
	Contingency [ES]		31.8 %
<b>#2</b>	<b>IT Issue</b>		<b>22.7 %</b>
	Base Case		22.7 %
<b>#3</b>	<b>Branch 225 kV</b>	<b>FR</b>	<b>18.2 %</b>
	N-1 Contingency 400 kV [ES-FR]		18.2 %
<b>#4</b>	<b>Tie Line 225 kV</b>	<b>FR-ES</b>	<b>13.6 %</b>
	N-1 Contingency 400 kV [FR-ES]		13.6 %
<b>#5</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>9.1 %</b>
	N-1 Contingency 400 kV [ES-FR]		9.1 %
<b>#6</b>	<b>Tie Line 220kV</b>	<b>FR-ES</b>	<b>4.6 %</b>
	N-1 Contingency 400 kV [FR-ES]		4.6 %

## Limiting elements ES-FR

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

	CNEs and associated Contingencies	CNE Location	Frequency (%)
<b>#1</b>	<b>Tie Line 220 kV</b>	<b>FR-ES</b>	<b>39.0 %</b>
	N-1 Contingency 400 kV [ES-FR]		34.3 %
	N-1 Contingency [FR]		4.7 %
<b>#2</b>	<b>Tie Line 225 kV</b>	<b>FR-ES</b>	<b>39.1 %</b>
	Base Case		1.6 %
	Contingency 400 kV [ES]		1.6 %
	N-1 Contingency 400 kV [FR]		28.1 %
	N-1 Contingency 400 kV [ES-FR]		1.6 %
	N-1 Contingency 400 kV [ES-FR]		6.2 %
<b>#3</b>	<b>Branch 225 kV</b>	<b>FR</b>	<b>9.4 %</b>
	N-1 Contingency 400 kV [FR]		9.4 %
<b>#4</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>9.4 %</b>
	Base Case		9.4 %
<b>#5</b>	<b>Tie Line 400 kV</b>	<b>FR-ES</b>	<b>3.1 %</b>
	N-1 Contingency 400 kV [ES-FR]		3.1 %

## Limiting elements PT-ES

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

	CNEs and associated Contingencies	CNE Location	Frequency (%)
<b>#1</b>	<b>Tie Line 400 kV</b>	<b>ES-PT</b>	<b>47.2 %</b>
	N-2 Contingency 400 kV [PT-ES]		47.2 %
<b>#2</b>	<b>GLSK limitation</b>		<b>38.0 %</b>
	Base Case		38.0 %
<b>#3</b>	<b>Angle Limitation</b>	<b>PT</b>	<b>14.8 %</b>
	N-2 Contingency 400 kV [PT-ES]		14.8 %

\*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 (%)
<b>#1</b>	<b>Angle Limitation</b>	<b>PT</b>	<b>54.8 %</b>
	N-2 Contingency 400 kV [ES-PT]		54.8 %
<b>#2</b>	<b>Branch 400 kV</b>	<b>PT</b>	<b>45.2 %</b>
	N-2 Contingency 400 kV [ES-PT]		45.2 %

\*GLSK limitation row includes GLSK limitations and flow divergences divisions