

# SWE Intraday Capacity Calculation external report

This document reports results of the external parallel run from the 07/02/2022 to the 13/02/2022.

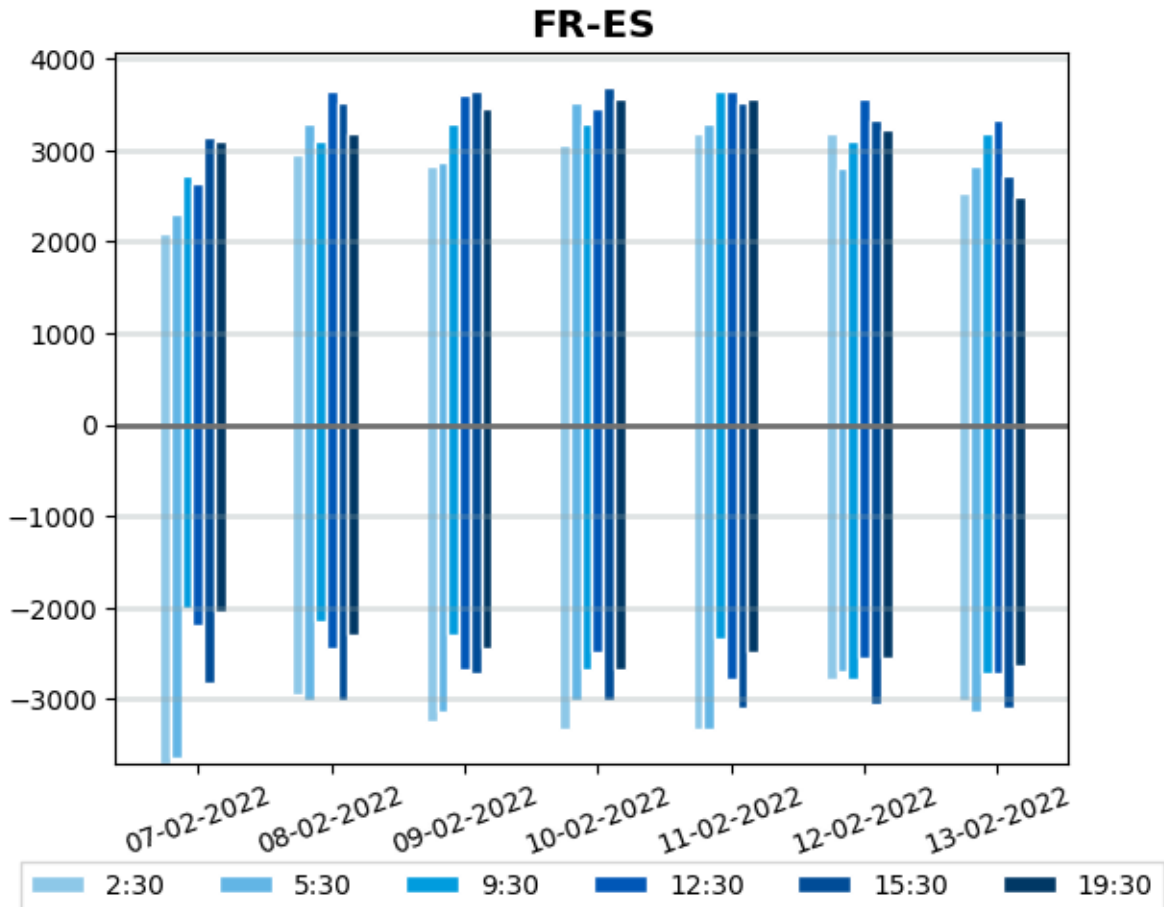
## FR-ES NTCs

	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
07-02-2022	3561	3700	2150	2100	3653	3653	2590	2300	2200	2000	3237	2728
08-02-2022	2821	2960	3283	2960	2821	3006	3422	3283	2210	2150	3561	3098
09-02-2022	2821	3237	3098	2821	2821	3145	3330	2867	2150	2300	3422	3283
10-02-2022	2700	3330	2799	3052	3006	3006	3515	3515	2400	2682	2799	3283
11-02-2022	2913	3330	3422	3191	2913	3330	3422	3283	2200	2350	3561	3653
12-02-2022	2775	2775	3191	3191	2700	2700	2799	2799	2867	2775	3515	3098
13-02-2022	3006	3006	2543	2543	3145	3145	2821	2821	2728	2728	3191	3191

\*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.

	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
07-02-2022	2200	2200	3422	2636	2400	2821	3376	3145	1950	2050	2450	3098
08-02-2022	2000	2450	3746	3653	2300	3006	3746	3515	2400	2300	3376	3191
09-02-2022	2150	2682	3700	3607	2250	2728	3700	3653	2400	2450	3330	3468
10-02-2022	2400	2497	3746	3468	2400	3006	3746	3700	2400	2682	3700	3561
11-02-2022	2150	2775	3700	3653	2350	3098	3700	3515	2549	2497	3653	3561
12-02-2022	2728	2543	3607	3561	3006	3052	3515	3330	2636	2543	3653	3237
13-02-2022	2728	2728	3330	3330	2913	3098	3283	2728	2590	2636	2821	2497

\*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.



#### Comments

On FR-ES border, 26 computations failed during this week of external parallel run.  
 14 failed computations were replaced by D-2 values as fallback procedure.

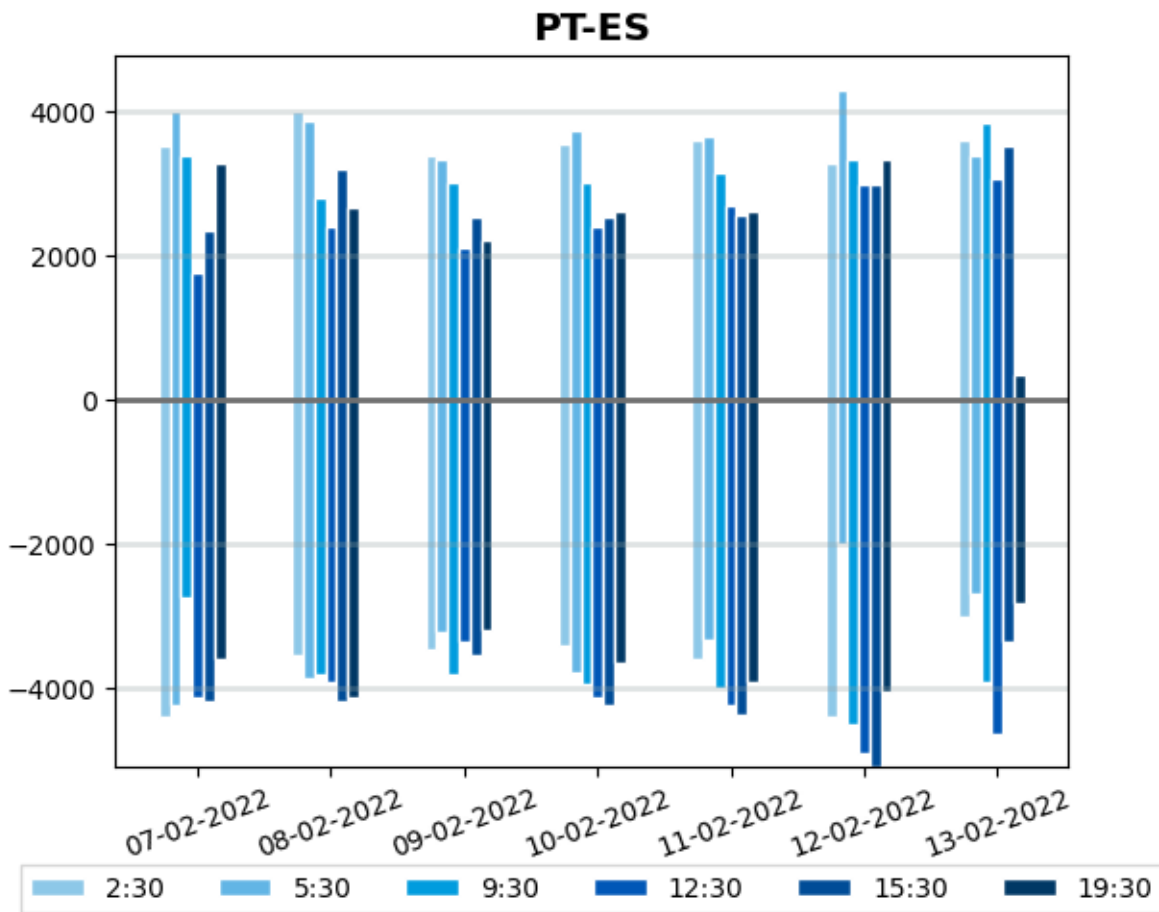
#### PT-ES NTCs

	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
07-02-2022	4230	4410	3825	3510	4140	4230	3915	4005	3375	2745	3420	3375
08-02-2022	3735	3555	3915	4005	3960	3870	3690	3870	3420	3825	2880	2790
09-02-2022	3960	3465	3870	3375	3915	3240	3735	3330	3375	3825	2925	3015
10-02-2022	1999	3420	4300	3555	3780	3780	3735	3735	1800	3960	2500	3015
11-02-2022	3510	3600	4140	3600	3420	3330	4050	3645	3600	4005	3330	3150
12-02-2022	4410	4410	3285	3285	1999	1999	4300	4300	4185	4500	3510	3330
13-02-2022	3015	3015	3600	3600	2700	2700	3375	3375	3915	3915	3825	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.

	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
07-02-2022	3825	4140	2205	1755	3915	4185	2250	2340	3044	3600	3060	3285
08-02-2022	4140	3915	1935	2385	4185	4185	1935	3195	4635	4140	2655	2655
09-02-2022	4050	3375	2385	2115	4230	3555	2340	2520	4815	3195	2070	2205
10-02-2022	3915	4140	2793	2385	3960	4230	2817	2520	4320	3645	2475	2610
11-02-2022	3780	4230	2709	2700	3915	4365	2668	2565	4185	3915	2565	2610
12-02-2022	4590	4905	3150	2970	4635	5085	3240	2970	3735	4050	3510	3330
13-02-2022	4635	4635	3060	3060	4545	3375	3510	3510	3285	2835	4095	350

\*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.



#### Comments

On PT-ES border, 33 computations failed during this week of external parallel run. 14 failed computations 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 (%)
<b>#1</b>	<b>Tie Line 400 kV</b>	<b>FR-ES</b>	<b>32.5 %</b>
	Contingency [ES]		20.0 %
	Contingency [ES]		10.0 %
	N-1 Contingency 400 kV [FR-ES]		2.5 %
<b>#2</b>	<b>Tie Line 225 kV</b>	<b>FR-ES</b>	<b>30.0 %</b>
	N-1 Contingency 400 kV [FR-ES]		7.5 %
	N-1 Contingency 400 kV [FR-ES]		22.5 %
<b>#3</b>	<b>Branch</b>	<b>FR</b>	<b>20.0 %</b>
	N-1 Contingency 400 kV [FR-ES]		20.0 %
<b>#4</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>12.5 %</b>
	Base Case		12.5 %
<b>#5</b>	<b>Branch 225 kV</b>	<b>FR</b>	<b>5.0 %</b>
	Base Case		5.0 %

## 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>Branch</b>	<b>FR</b>	<b>36.5 %</b>
	N-1 Contingency 400 kV [FR]		36.5 %
<b>#2</b>	<b>Tie Line 225 kV</b>	<b>FR-ES</b>	<b>32.9 %</b>
	Base Case		8.2 %
	N-1 Contingency 400 kV [FR]		24.7 %
<b>#3</b>	<b>Tie Line 220 kV</b>	<b>FR-ES</b>	<b>22.4 %</b>
	N-1 Contingency 400 kV [ES-FR]		21.2 %
	N-1 Contingency [FR]		1.2 %
<b>#4</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>4.7 %</b>
	Base Case		4.7 %
<b>#5</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>3.5 %</b>
	N-1 Contingency 400 kV [FR]		3.5 %

## 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>41.0 %</b>
	N-2 Contingency 400 kV [PT-ES]		41.0 %
<b>#2</b>	<b>GLSK limitation</b>	<b>PT</b>	<b>34.9 %</b>
	Base Case		34.9 %
<b>#3</b>	<b>Angle Limitation</b>	<b>PT</b>	<b>15.7 %</b>
	N-2 Contingency 400 kV [PT-ES]		15.7 %

<b>#4</b>	<b>Branch 400 kV</b>	<b>ES</b>	<b>8.4 %</b>
	N-2 Contingency 400 kV [PT-ES]		8.4 %

\*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>Branch 400 kV</b>	<b>PT</b>	<b>48.0 %</b>
	N-2 Contingency 400 kV [ES-PT]		48.0 %
<b>#2</b>	<b>Angle Limitation</b>	<b>PT</b>	<b>45.0 %</b>
	N-2 Contingency 400 kV [ES-PT]		45.0 %
<b>#3</b>	<b>Branch 400 kV</b>	<b>PT</b>	<b>7.0 %</b>
	N-1 Contingency 400 kV [ES-PT]		7.0 %

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