

# SWE Intraday Capacity Calculation

## external report

This document reports results of the external parallel run from the 10/01/2022 to the 16/01/2022.

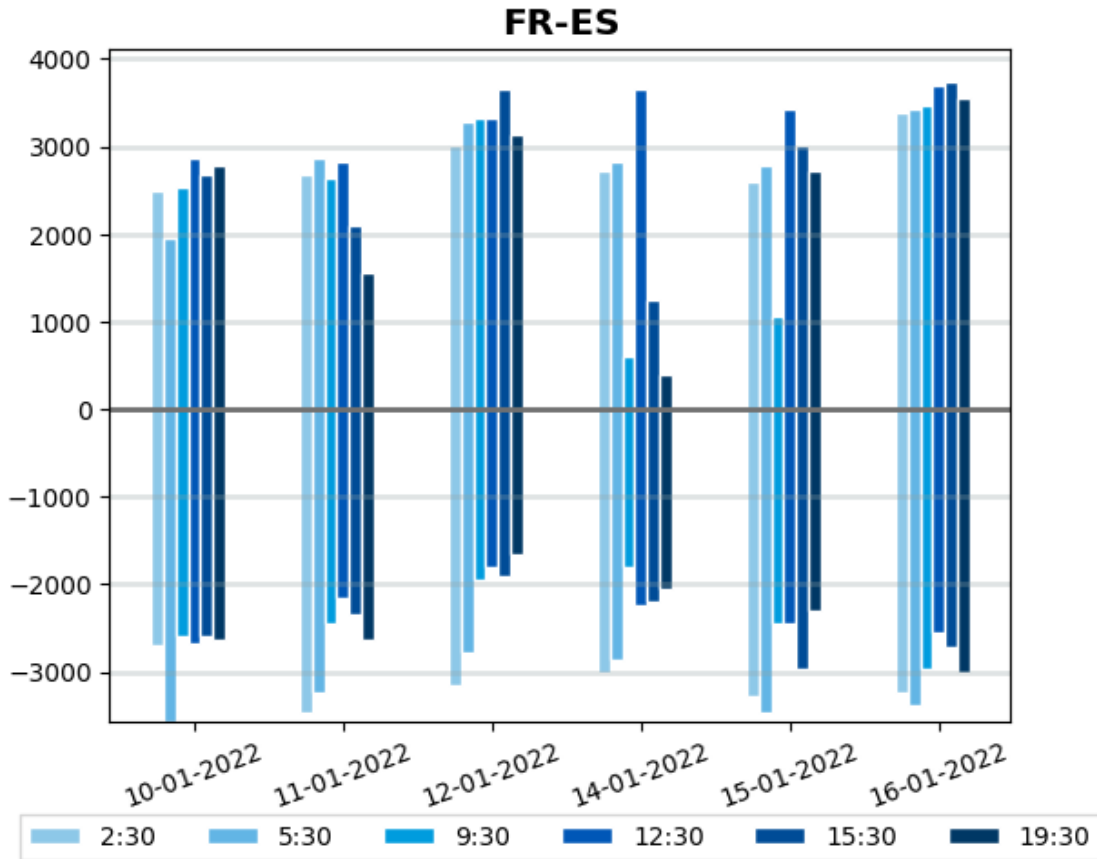
### FR-ES NTCs

	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
10-01-2022	2699	2699	2499	2499	2699	3561	2499	1950	3052	2590	2728	2543
11-01-2022	3607	3468	2682	2682	3515	3237	2913	2867	2543	2450	2728	2636
12-01-2022	2913	3145	3191	3006	2913	2775	3376	3283	2050	1950	3098	3330
13-01-2022	4450	4800	3400	3250	4450	4900	3300	3150	2850	4050	2850	3050
14-01-2022	3283	3006	2821	2728	3098	2867	2960	2821	2636	1800	2821	600
15-01-2022	3237	3283	2728	2590	3468	3468	2913	2775	2960	2450	2913	1050
16-01-2022	3237	3237	3376	3376	3376	3376	3422	3422	2960	2960	3468	3468

\*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 but D-2 values were not available hence LTCC values were used.

	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
10-01-2022	2728	2682	2913	2867	2636	2590	3653	2682	2682	2636	3330	2775
11-01-2022	2450	2150	2682	2821	2497	2350	2775	2100	2636	2636	3006	1550
12-01-2022	2350	1800	3653	3330	2682	1900	3653	3653	2450	1650	2590	3145
13-01-2022	2450	2150	3700	2850	2550	2400	3700	2350	3050	1850	2500	2000
14-01-2022	2250	2250	3653	3653	2636	2200	3746	1250	2728	2050	3052	400
15-01-2022	2775	2450	3515	3422	2821	2960	3561	3006	3006	2300	3145	2728
16-01-2022	2543	2543	3700	3700	2728	2728	3746	3746	3006	3006	3561	3561

\*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 but D-2 values were not available hence LTCC values were used.



#### Comments

On FR-ES border, 28 computations failed during this week of external parallel run.  
18 failed computations were replaced by D-2 values as fallback procedure.

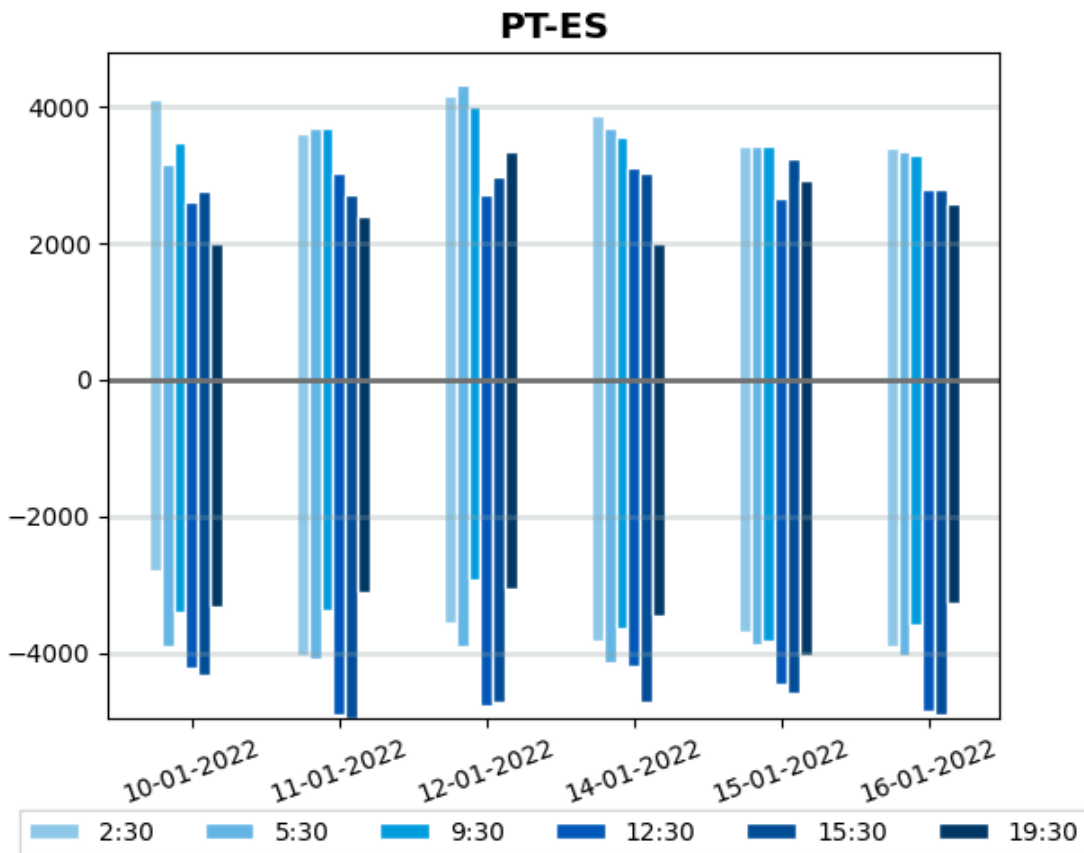
#### PT-ES NTCs

	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
10-01-2022	2799	2799	4099	4099	2799	3915	4099	3150	3330	3420	3780	3465
11-01-2022	3555	4050	3375	3600	3870	4095	3240	3690	3375	3375	3690	3690
12-01-2022	3330	3555	3330	4140	3555	3915	3195	4320	2790	2925	3960	4005
13-01-2022	3400	3400	4350	4350	4150	4200	4250	4050	3800	4100	3900	3800
14-01-2022	3915	3825	3825	3870	4140	4140	3915	3690	3510	3645	3600	3555
15-01-2022	3645	3690	3105	3420	3960	3870	3060	3420	3870	3825	2970	3420
16-01-2022	3915	3915	3375	3375	4050	4050	3330	3330	3600	3600	3285	3285

\*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 but D-2 values were not available hence LTCC values were used.

	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
10-01-2022	3690	4230	2970	2610	3780	4320	2880	2745	2925	3330	2205	1980
11-01-2022	4275	4905	3015	3015	4230	4950	2790	2700	3375	3105	2475	2385
12-01-2022	4140	4770	3375	2700	4185	4725	3195	2970	2880	3060	3105	3330
13-01-2022	3150	3150	2700	2700	3050	2950	3150	3100	2650	2150	2750	1950
14-01-2022	4185	4185	3105	3105	4185	4725	3195	3015	3015	3465	1980	1980
15-01-2022	4140	4455	2790	2655	4320	4590	2970	3240	3735	4050	3285	2925
16-01-2022	4860	4860	2790	2790	4905	4905	2790	2790	3285	3285	2565	2565

\*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 but D-2 values were not available hence LTCC values were used.



### Comments

On PT-ES border, 19 computations failed during this week of external parallel run. 18 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>IT Issue</b>		<b>58.0 %</b>
	Base Case		58.0 %
<b>#2</b>	<b>Tie Line 225 kV</b>	<b>FR-ES</b>	<b>20.3 %</b>
	N-1 Contingency 400 kV [FR-ES]		5.8 %
	N-1 Contingency 400 kV [FR-ES]		14.5 %
<b>#3</b>	<b>Branch</b>	<b>FR</b>	<b>8.7 %</b>
	N-1 Contingency 400 kV [FR-ES]		8.7 %
<b>#4</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>8.7 %</b>
	Base Case		8.7 %
<b>#5</b>	<b>Tie Line 220 kV</b>	<b>FR-ES</b>	<b>4.3 %</b>
	N-1 Contingency 400 kV [FR-ES]		4.3 %

## 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>49.5 %</b>
	N-1 Contingency 400 kV [ES-FR]		49.5 %
<b>#2</b>	<b>Branch</b>	<b>FR</b>	<b>36.9 %</b>
	N-1 Contingency [FR]		36.9 %
<b>#3</b>	<b>Tie Line</b>	<b>FR-ES</b>	<b>7.8 %</b>
	Base Case		6.8 %
	N-1 Contingency 400 kV [FR]		1.0 %
<b>#4</b>	<b>Branch 220 kV</b>	<b>ES</b>	<b>5.8 %</b>
	Base Case		5.8 %

## 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>50.4 %</b>
	N-2 Contingency 400 kV [PT-ES]		50.4 %
<b>#2</b>	<b>GLSK limitation</b>		<b>44.8 %</b>
	Base Case		44.8 %
<b>#3</b>	<b>Angle Limitation</b>	<b>PT</b>	<b>4.8 %</b>
	N-2 Contingency 400 kV [PT-ES]		4.8 %

\*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>65.4 %</b>
	N-2 Contingency 400 kV [ES-PT]		65.4 %
<b>#2</b>	<b>Branch 400 kV</b>	<b>PT</b>	<b>28.6 %</b>
	N-2 Contingency 400 kV [ES-PT]		28.6 %
<b>#3</b>	<b>GLSK limitation</b>		<b>6.0 %</b>
	Base Case		6.0 %

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