

CORESO Engineers

NYAZIKA Paget
South: DECKERS Bram

Day Ahead report for

25 January 2018

Security Levels:

CWE: Critical constraint detected in Netherlands to be monitored and managed in real time with redispatching.

CEE: No critical constraint detected.

CSE: No critical constraints detected.

Key overall conditions

Outages table

Exchange program forecasts

ELIA expected flows & PSTs tap position

CEE Renewable Power Generation & Forecast

CWE, CSE & SWE Renewable Power Forecast (D-1 and D-2)

RTE flows on cross-border lines

N state flows at 10:30 and 19:30

Special topologies at 10:30 and 19:30

North analyses results

Constraints on Elia, RTE (North) and 50HzT 400kV grids and tie-lines

Constraints greater than 100% on NL + Amprion 400kV grids and greater than 120% on DE, CZ, PL and SK 400kV grids

0

50HzT DC loopflows sensitivity

South analyses results

N state flows Off-Peak & Peak

Special topologies

Sensitivity coefficients for the Pentalateral instruction

Constraints on APG, Eles, RTE (South), Swissgrid and Terna 400kV grids and tie-lines

Final PSTs settings

Conclusion



Key overall conditions

Load & Generatio	n margin	forecast		Main generating ur	nits conne	ted to the gri	id in DA	CF
				5 1		1000	1	4000
"	IA			Doel		450	2	1900
Peak load [MW]	10800	18:00	Elia	Tibongo	Pmax	1000	2	2900
Peak load [lvlvv]	10800	18:00	Elld	Tihange	(MW)	450	2	2900
Generation Margin	Suffi	cient		Coo		230	3	1170
Generation Margin	Sulli	cient		COO		160	3	1170
				Rostock		530	1	530
				Janschwalde		500	6	3000
			50HzT	Boxberg	Pmax	500	2	2800
			30021	ьохрегд	(MW)	900	2	2800
				Schw. Pumpe		800	2	1600
				Lippendorf		920	2	1840
R	ΓΕ			Gravelines		900	6	5400
Peak load [MW]	74000	19:00		Chooz		1500	2	3000
Generation Margin	Suffi	cient		Cattenom		1300	4	5200
				Fessenheim		900	1	900
NATIONAL G	RID (UK ti	me)		Penly	Pmax	1300	2	2600
Peak load [MW]	46600	17:30	RTE	Paluel	(MW)	1300	3	3900
Generation Margin	Suffi	cient		Nogent s/ Seine]	1300	2	2600
				Bugey]	900	4	3600
TEF	NA			St Alban]	1300	2	2600
Peak load [MW]	47948	18:30		Cruas		900	3	2700
Generation Margin	Suffi	cient		Tricastin		900	4	3600

Generation margin legend:

 ${\it Green: Sufficient margin available. No risk for need of inter-TSO solicitation due to margin issues.}$

Orange: Tight margin available. Low risk for need of inter-TSO solicitation due to margin issues.

Red: Insufficient margin available. High risk for need of inter-TSO solicitation due to margin issues.

Comments:

RTE agrees to implement 2 nodes at Chooz 400kV and to open standby transformer at Mazure if needed for Chooz-Monceau constraint.

Tennet NL requested Zandvliet PSTs to -12,-12 and implemented 2 nodes at Lelystad to manage flows on Ens-Lelystad circuit.

Due to merging issues, the ES DACF files have been replaced with files of BD 24/01/2017 for following timestamps: 10:30, 11:30, 12:30, 13:30,14:30. Please be aware that this can have an impact on the studies performed.

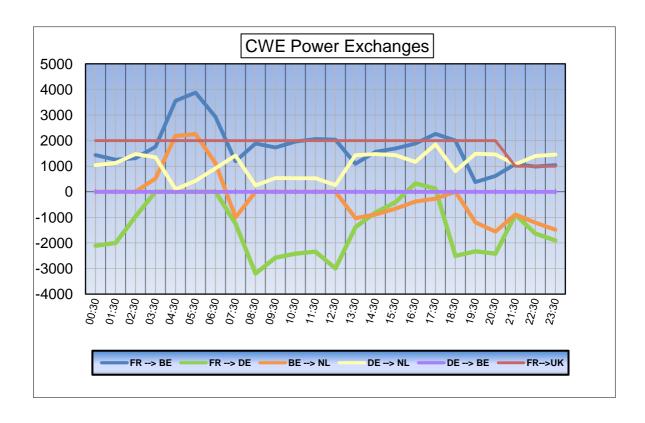


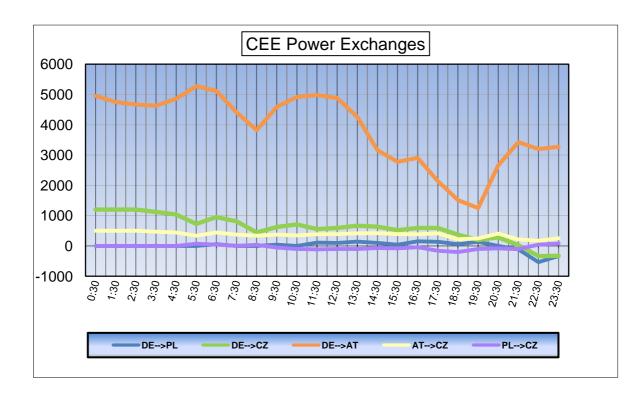
Outages table

		OUTAGES			
Owner	Type of element	Line name	start	end	Comments
50HzT	Fossil.Gen	BOXBERG _ Unit Q 400 kV	22/01/2018	25/01/2018	277 MW (reduced)
50HzT	Hydro.Gen	GOLDISTHAL Unit A 400 kV		26/01/2018	265 MW
50HzT	Hydro.Gen	MARKERSBACH Unit D 400 kV	28/09/2017	27/04/2018	160 MW
50HzT	Line	EULA _ Wolkramhausen 357 220 kV	06/10/2017	16/03/2018	
50HzT	Line	HAGENWERDER _ SCHMÖLLN 554 400 kV	22/01/2018	28/01/2018	
50HzT	Line	KRUMMEL _ HAMBURG Öst 991 400 kV	25/01/2018	25/01/2018	
50HzT	Line	LUBMIN _ WIKINGER 281 220 kV	26/09/2017	31/01/2018	
50HzT	Line	MARKERSBACH _ T connection ZWOENITZ 400 kV	24/01/2018	26/01/2018	daily
50HzT	Line	RAGOW _ WUSTERMARK 521 400 kV	22/01/2018	28/01/2018	
50HzT	Line	ROHRSDORF _ T connection ZWOENITZ 400 kV	24/01/2018	26/01/2018	daily
50HzT / PSE	Line	KRAJNIK_VIERRADEN 507 225 kV	22/06/2016	31/05/2018	Long term outage
50HzT / PSE	Line	KRAJNIK_VIERRADEN 508 225 kV	22/06/2017	31/05/2018	Long term outage
AMP / TEN DE	Line	NEHDEN _ TWISTETAL W 400 kV	08/01/2018	23/02/2018	daily
AMPRION	Line	NEHDEN _ ARPE Sud 400 kV	15/01/2018	02/02/2018	
AMPRION	Line	NEHDEN _ UENTROP Sauerland Nord 400 kV	15/01/2018	02/02/2018	daily
APG	Line	KAINACHTAL_SUDBURGENLAND 400 kV	24/01/2018	25/01/2018	daily
APG	Line	ST PETER _ Salzburg 455 220 kV	22/01/2018	26/01/2018	ALTERNATING WITH 456
APG	Line	ST PETER _ Salzburg 456 220 kV	22/01/2018	26/01/2018	ALTERNATING WITH 455
CEPS	Line	DASNY _ KOCIN 473 400 kV	08/01/2018	26/01/2018	
CEPS / SEPS	Line	NOSOVICE _ VARIN 404 400 kV	15/01/2018	02/03/2018	
CREOS	Line	BERTRANGE _ SCHIFFLANGE West 220 kV	08/01/2018	02/03/2018	
ELES	Line	BERICEVO _ KRSKO 2 400 kV	22/01/2018	25/01/2018	
ELES / HOPS	Line	KRSKO _ TUMBRI 1 400 kV	22/01/2018	02/03/2018	
ELIA	Line	GEZELLE _ MAERLANT 109 400 kV	25/01/2018	09/02/2018	
ELIA	Line	GEZELLE _ STEVIN 111 400 kV	19/09/2017	02/03/2018	
ELIA	Line	GEZELLE _ STEVIN 112 400 kV	19/09/2017	02/03/2018	
ELIA	Line	MAERLANT _ GEZELLE 110 400 kV	25/01/2018	09/02/2018	
ELIA	Nuc.Gen	DOEL _ Unit 3 (1000MW) 400 kV	23/09/2017	16/04/2018	Forced outage
HOPS	Line	BRINJE _ KONJSKO 220 kV		27/01/2018	
PSE	Line	DUNOWO _ SLUPSK 400 kV		28/01/2018	
PSE	Line	POLANIEC _ TARNOW 400 kV		26/01/2018	daily
PSE	Line	TUCZNAWA _ RZESZOW 400 kV		26/01/2018	daily
RTE	Line	CHEVALET _ ARGOEUVES 1 380 kV		23/02/2018	
RTE	Line	PLESSIS GASSOT _ PENCHARD 1 400 kV		25/01/2018	
RTE	Nuc.Gen	CRUAS _ Unit 2 (900MW) 400 kV		30/03/2018	
RTE	Nuc.Gen	FESSENHEIM _ Unit 2 (900MW) 400 kV		15/03/2018	
RTE	Nuc.Gen	PALUEL _ Unit 2 (1300MW) 400 kV		15/04/2018	
S.GRID	Line 	BICKIGEN METTLEN 220 kV		26/01/2018	No. 1 circuit Daily
S.GRID	Line	BICKIGEN METTLEN 220 kV		26/01/2018	No. 2 circuit Daily
S.GRID	Line 	CHAMOSON _ MUHLEBERG "Sanetsch 2" 220 kV		30/03/2018	
S.GRID	Line 	CHATELARD NANT DE DRANCE 400 kV		27/04/2018	
S.GRID	Line	LIMMERN _ TIERFEHD 1 400 kV		31/07/2018	402 8414
S.GRID	Nuc.Gen	BEZNAU BEZNAU G11 220 kV		28/02/2018	182 MW
S.GRID	Nuc.Gen	BEZNAU _ BEZNAU G12 220 kV	13/03/2015	28/02/2018	182 MW

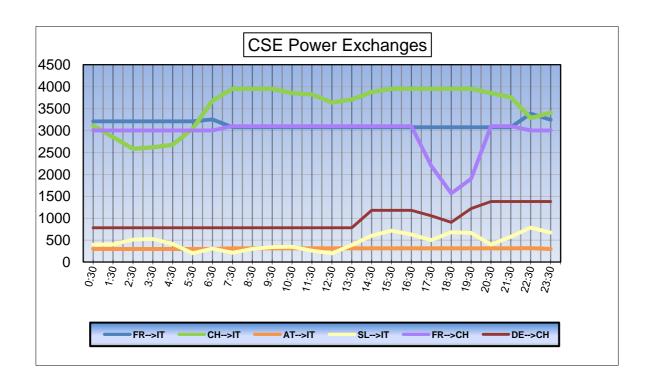


Exchange program forecasts











ELIA expected flows & PSTs tap position

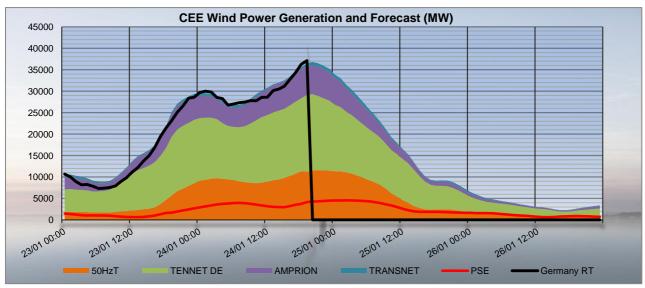
	ı			1			1						I			
		Node 1	Node 2	Order	00:30	03:30	04:30	07:30	09:30	10:30	12:30	15:30	17:30	19:30	22:30	23:30
BE	FR	ACHENE	LONNY	380.19	132	-92	-378	67	240	177	220	-45	-152	360	172	211
BE	FR	AUBANGE	MONT ST MARTIN	220.51	-30	-114	-173	-18	16	13	0	-71	-71	68	39	27
BE	FR	AUBANGE	MOULAINE	220.51	-31	-115	-165	-31	-3	0	-15	-82	-82	51	24	10
BE	FR	AVELGEM	AVELIN	380.80	41	-423	-697	-225	-115	-157	-70	-469	-661	119	-330	-365
BE	FR	AVELGEM	MASTAING	380.79	-140	-262	-420	-303	-283	-305	-256	-427	-553	-213	-324	-347
BE	FR	MONCEAU	CHOOZ	220.48	-114	-123	-173	-149	-139	-147	-135	-179	-223	-134	-149	-171
BE	NL	VAN EYCK 1	MAASBRACHT	380.27	-541	-288	-158	-567	-748	-757	-785	-665	-649	-812	-759	-835
BE	NL	VAN EYCK 2	MAASBRACHT	380.28	-278	15	262	-272	-394	-449	-546	-335	-182	-454	-529	-579
BE	NL	ZANDVLIET	BORSSELE	380.29	-324	-123	-56	-507	-492	-493	-549	-434	-346	-553	-375	-406
BE	NL	ZANDVLIET	GEERTRUIDENBERG	380.30	-179	204	399	-172	180	161	88	324	426	93	72	-10
BE	LU	BELVAL	SCHIFFLANGE	220.511	17	77	173	-16	3	-10	2	21	-36	-100	-38	-73
				•			-						,			
BE	FR	TOT	AL		-142	-1129	-2006	-659	-284	-419	-256	-1273	-1742	251	-568	-635
BE	NL	TOTAL			-1322	-192	447	-1518	-1454	-1538	-1792	-1110	-751	-1726	-1591	-1830
BE	LU	TOTAL			17	77	173	-16	3	-10	2	21	-36	-100	-38	-73
		TOTAL BELGIAN IMPOR	T/EXPORT		-1447	-1244	-1386	-2193	-1735	-1967	-2046	-2362	-2529	-1575	-2197	-2538

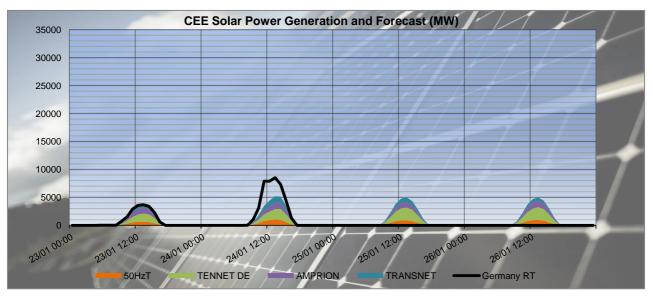
	Zandvliet 1	12	12	12	12	6	6	6	6	6	6	6	6
PST tans in DACE	Zandvliet 2	12	12	12	12	6	6	6	6	6	6	6	6
PST taps in DACF	Van Eyck 1	15	15	15	15	15	15	15	15	15	15	15	15
	Van Eyck 2	15	15	15	15	15	15	15	15	15	15	15	15
	Average	14	14	14	14	11	11	11	11	11	11	11	11
		-											
CREOS PST in DACF	Schifflange	17	17	17	17	17	17	17	17	17	17	17	17

	Proposal for real time after D-1 studies																								
Time	stamps	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PSTs																									
Zandvliet PST 1	[1;35]	12	12	12	12	12	12	12	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Zandvliet PST 2	[1;35]	12	12	12	12	12	12	12	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Van Eyck PST 1	[1;35]	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Van Eyck PST 2	[1;35]	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Schifflange PST 1	[1;35]	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17



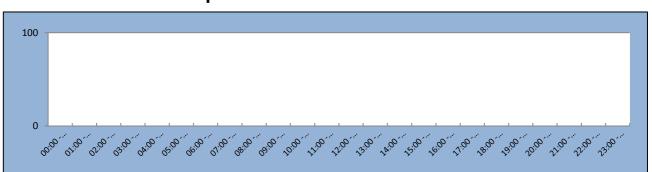
CEE Renewable Power Generation & Forecast





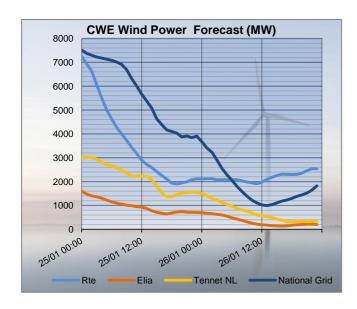
The charts above show the wind and solar generation forecasts for the TSOs in CEE (most significant) from D+1 until D-2 and the realised generation in Germany in real time. Source: Meteologica and 50HzT (RT)

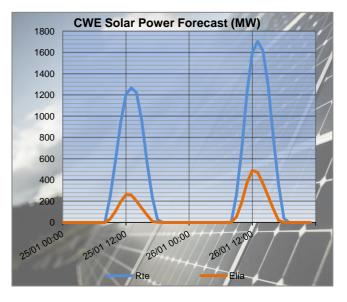
50HzT Preventive Redispatch

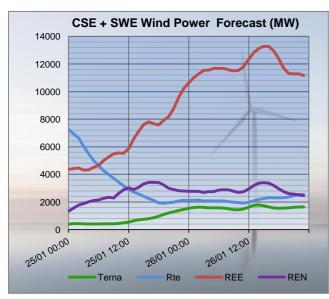


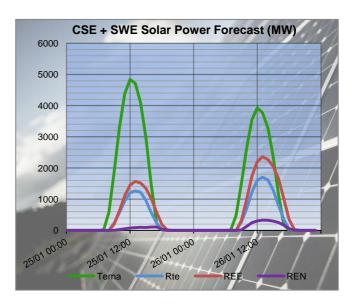


CWE, CSE & SWE Renewable Power Forecast (D-1 and D-2)









The charts above show the latest wind and solar generation forecasts for D-1 and D-2 for all the European TSOs in CWE, CSE and SWE with a significant installed capacity. Source: Meteologica



RTE flows on cross-border lines

With last provided tap position on Belgian PSTs:

Node 1 Node 2 DACF Merge Delta DACF Merge Delta DACF Merge FR BE LONNY ACHENE 209 92 -117 46 -67 -113 -73 -177 FR BE MONT ST MARTIN AUBANGE 174 114 -60 -16 18 34 -25 -13 FR BE MOULAINE AUBANGE 172 115 -57 -2 31 33 -11 0 FR BE AVELIN AVELGEM 466 423 -43 338 225 -113 157 157 FR BE MASTAING AVELGEM 295 262 -33 396 303 -93 324 305			12:30	
FR BE MONT ST MARTIN AUBANGE 174 114 -60 -16 18 34 -25 -13 FR BE MOULAINE AUBANGE 172 115 -57 -2 31 33 -11 0 FR BE AVELIN AVELGEM 466 423 -43 338 225 -113 157 157	Delta	DACF	Merge	Delta
FR BE MOULAINE AUBANGE 172 115 -57 -2 31 33 -11 0 FR BE AVELIN AVELGEM 466 423 -43 338 225 -113 157 157	-104	-30	-220	-190
FR BE AVELIN AVELGEM 466 423 -43 338 225 -113 157 157	12	6	0	-6
FR BE AVELIN AVELGEM 466 423 -43 338 225 -113 157 157	11	21	15	-6
FD DE MACTAING AVELCENA 205 202 20 202 202 204 205	0	82	70	-12
FR BE MASTAING AVELGEM 295 262 -33 396 303 -93 324 305	-19	278	256	-22
FR BE CHOOZ MONCEAU 137 123 -14 158 149 -9 124 147	23	140	135	-5
FR DE MUHLBACH EICHSTETTEN 329 616 287 322 575 253 141 394	253	34	364	330
FR DE VOGELGRUN EICHSTETTEN 49 109 60 17 99 82 25 91	66	-2	77	79
FR DE STAVOLD ENSDORF 0 0 0 0 0 0 0	0	0	0	0
FR DE VIGY ENSDORF 1 534 504 -30 295 325 30 244 236	-8	204	208	4
FR DE VIGY ENSDORF 2 590 586 -4 234 309 75 170 199	29	116	165	49
17:30 19:30 23:30				
Node 1 Node 2 DACF Merge Delta DACF Merge Delta DACF Merge	Delta	1		
FR BE LONNY ACHENE 343 152 -191 -166 -360 -194 -78 -211	-133	1		
FR BE MONT ST MARTIN AUBANGE 81 71 -10 -28 -68 -40 -28 -27	1	1		
FR BE MOULAINE AUBANGE 91 82 -9 -13 -51 -38 -12 -10	2	1		
FR BE AVELIN AVELGEM 691 661 -30 -219 -119 100 280 365	85	1		
FR BE MASTAING AVELGEM 585 553 -32 154 213 59 300 347	47	1		
FR BE CHOOZ MONCEAU 228 223 -5 140 134 -6 181 171	-10	1		
FR DE MUHLBACH EICHSTETTEN 150 462 312 -220 96 316 108 283	175	1		
FR DE VOGELGRUN EICHSTETTEN 62 122 60 -57 33 90 4 44	40	1		
FR DE STAVOLD ENSDORF 0 0 0 0 0 0 0 0	0	ł		
FR DE VIGY ENSDORF 1 523 418 -105 39 -16 -55 75 41	-34	1		
FR DE VIGY ENSDORF 2 473 395 -78 -87 -115 -28 -12 -33	-21	1		
11/ DE VIGI ENSBONI 2 473 333 -70 07 113 20 12 33	-21	1		
03:30 07:30 10:30			12:30	
Node 1 Node 2 DACF Merge Delta DACF Merge Delta DACF Merge	Delta	DACF	Merge	Delta
FR CH SIERENTZ ASPHARD 449 386 -63 351 436 85 294 315	21	264	297	33
FR CH MAMBELIN BASSECOURT 16 165 149 -124 32 156 -94 24	118	-136	15	151
FR CH SIERENTZ BASSECOURT 294 395 101 317 390 73 280 322	42	298	342	44
FR CH BOIS TOLLOT ROMANEL 292 165 -127 24 -139 -163 19 -97	-116	130	-97	
TH CH BOISTOLLOT HOWARDLE 232 103 127 24 133 103 13	78			
FR CH SIERENTZ LAUFENBURG 375 494 119 265 298 33 187 265				-227 108
FR CH SIERENTZ LAUFENBURG 375 494 119 265 298 33 187 265 FR CH CORNIER RIDDES 35 60 25 45 25 20 23 21		169	277	108
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1	22	169 -34	277 -9	108 25
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6	22 6	169 -34 -26	277 -9 -25	108 25 1
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117	22 6 58	169 -34 -26 -136	277 -9 -25 -138	108 25 1 -2
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256	22 6 58 -3	169 -34 -26 -136 239	277 -9 -25 -138 247	108 25 1 -2 8
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164	22 6 58 -3 -23	169 -34 -26 -136 239 192	277 -9 -25 -138 247 156	108 25 1 -2 8 -36
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164	22 6 58 -3 -23 -23	169 -34 -26 -136 239 192 192	277 -9 -25 -138 247 156 156	108 25 1 -2 8 -36 -36
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986	22 6 58 -3 -23 -23 -88	169 -34 -26 -136 239 192 192 1038	277 -9 -25 -138 247 156 156 931	108 25 1 -2 8 -36 -36
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1075 985	22 6 58 -3 -23 -23 -88 -90	169 -34 -26 -136 239 192 192 1038 1038	277 -9 -25 -138 247 156 156 931 931	108 25 1 -2 8 -36 -36 -107 -107
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT MENTON CAMPOROSSO 252 194 -58 151 206 55 156 206	22 6 58 -3 -23 -23 -88 -90 50	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT MENTON CAMPOROSSO<	22 6 58 -3 -23 -23 -88 -90	169 -34 -26 -136 239 192 192 1038 1038	277 -9 -25 -138 247 156 156 931 931	108 25 1 -2 8 -36 -36 -107 -107
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT MENTON CAMPOROSSO<	22 6 58 -3 -23 -23 -88 -90 50	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT MENTON CAMPOROSSO<	22 6 58 -3 -23 -23 -88 -90 50 -1	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT MENTON CAMPOROSSO<	22 6 58 -3 -23 -23 -88 -90 50 -1	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT MENTON CAMPOROSSO<	22 6 58 -3 -23 -23 -88 -90 50 -1	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE	22 6 58 -3 -23 -23 -88 -90 50 -1	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE	22 6 58 -3 -23 -23 -88 -90 50 -1 Delta -58 80 50 -137	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE	22 6 58 -3 -23 -23 -88 -90 50 -1 Delta -58 80 50 -137	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE	22 6 58 -3 -23 -23 -88 -90 50 -1 Delta -58 80 50 -137 49	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE	22 6 58 -3 -23 -88 -90 50 -1 Delta -58 80 50 -137 49 16	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE	22 6 58 -3 -23 -88 -90 50 -1 Delta -58 80 50 -137 49 16 3	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS	22 6 58 -3 -23 -88 -90 50 -1 Delta -58 80 50 -137 49 16 3 16	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS	22 6 58 -3 -23 -88 -90 -1 Delta -58 80 50 -137 49 16 3 16 12 -21	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
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FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1074 986 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1075 985 FR IT MENTON CAMPOROSSO 252 194 -58 151 206 55 156 206 FR IT VILLARODIN VENAUS 634 686 52 784 805 21 854 853 NOde 1 Node 2 DACF Merge Delta DACF Merge Delta DACF Merge Delta DACF Merge FR CH SIERENTZ ASPHARD 253 251 251 251 251 251 251 251 251 251 251	22 6 58 -3 -23 -88 -90 -1 -1 Delta -58 80 50 -137 49 16 3 16 12 -21 -21	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42
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FR CH CORNIER RIDDES 35 60 25 -45 -25 20 -23 -1 FR CH CORNIER ST TRIPHON 6 12 6 -52 -34 18 -12 -6 FR CH PRESSY VALLORCINES -49 -44 5 -209 -178 31 -175 -117 FR CH BOIS TOLLOT VERBOIS 128 158 30 182 203 21 259 256 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR CH GENISSIAT VERBOIS 218 211 -7 159 139 -20 187 164 FR IT ALBERTVILLE RONDISSONE 1012 916 -96 1006 899 -107 1075 985 FR IT MENTON CAMPOROSSO<	22 6 58 -3 -23 -88 -90 -1 -1 Delta -58 80 50 -137 49 16 3 16 12 -21 -21	169 -34 -26 -136 239 192 192 1038 1038 153	277 -9 -25 -138 247 156 156 931 931 195	108 25 1 -2 8 -36 -36 -107 -107 42



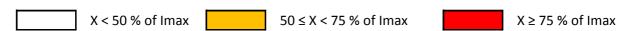
N state flows at 10:30 and 19:30

The Imax and load values in the table below are extracted from the merged TSOs' DACF.

TCO	Lina (200 la/)	10	:30	19	:30
TSO	Line (380 kV)	Imax (A)	% of Imax	Imax (A)	% of Imax
	Champion - Gramme (32)	2448	47	2448	51
	Doel - Mercator (51)	2239	30	2239	32
	Doel - Mercator (52)	2239	30	2239	32
5110	Doel - Mercator (54)	2448	30	2448	32
ELIA	Doel - Zandvliet (25)	2237	6	2349	5
	Mercator - Horta (73)	2569	19	2569	27
	Courcelles - Gramme (31)	2273	54	2349	56
	Mercator - Rodenhuize/Horta (74)	2288	24	2349	31
	Attaques - Warande 2	3780	54	3780	57
	Avelin - Gavrelle	2622	24	2622	39
	Avelin - Warande	3458	14	3458	10
DTE	Lonny - Seuil	4149	18	4149	24
RTE	Mandarins - Warande 1	3780	51	3780	54
	Muhlbach - Scheer	2598	22	2598	15
	Revigny - Vigy	2596	24	2596	35
	Warande - Weppes	3458	20	3458	16

X < 50 % of I	max	50 ≤ X < 75 % of Imax	X ≥ 75 % of Imax
· · · · · · · · · · · · · · · · · · ·		•	 *

TCO	Valtaga	Line (280 la)()	10	:30	19	:30
TSO	Voltage	Line (380 kV)	Imax (A)	% of Imax	Imax (A)	% of Imax
		Eisenach - Mecklar (450-2)	2520	9	2520	12
		Hagenwerder - Mikulowa (567)	2520	26	2520	13
		Hagenwerder - Mikulowa (568)	2520	26	2520	13
		Remptendorf - Redwitz (413)	3370	48	3370	44
	380 kV	Remptendorf - Redwitz (414)	3370	48	3370	44
FO U-T		Röhrsdorf - Hradec (445)	2520	47	2520	29
50 HzT		Röhrsdorf - Hradec (446)	2520	47	2520	29
		Vieselbach - Mecklar (449-1)	2520	10	2520	16
		Wolmirstedt - Helmstedt (491-1)	2400	24	2400	13
		Wolmirstedt - Helmstedt (492-2)	2400	24	2400	13
	220 114	Vierraden - Krajnik (507)	1307	0	1307	0
	220 kV	Vierraden - Krajnik (508)	1307	0	1307	0





Special topologies at 10:30 and 19:30

		Nodes in North area		
			10:30	19:30
	Elia	Doel	1	1
	Ella	Avelgem	1	1
		Warande	1	1
		Cergy	2	2
		Terrier	1	1
	Rte	Plessis Gassot	1	1
		Mery/Seine	2	2
380 kV		Muhlbach	2	2
		Vigy	2	2
	Transnet bw	Eichstetten	1	1
	Amprion	Uchtelfangen	1	1
	Tennet DE	Redwitz	1	1
	50 HzT	Remptendorf	1	1
	SU HZI	Wolmirstedt	1	1
	CEPS	Hradec Vychod	1	1
220 kV	50 HzT	Pasewalk	1	1



North analyses results

Security analyses have been performed for 24 timestamps.

All remedial actions have been agreed with concerned TSO during the day ahead process.

Constraints on Elia, RTE (North) and 50HzT 400kV grids and tie-lines

TSO	Validity		Cont	ingency				Constra	int		Timestamps of
130	validity	U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code	max
		400	Hradec	Röhrsdorf	N-1	104%	400	Röhrsdorf	PST		16:30
50HzT	16-17			Curative	e Action: D	ecrease 4 t	aps on R	öhrsdof PSTs - 99	9% remaining		

<u>Constraints greater than 100% on NL + Amprion 400kV grids and greater than 120% on DE, CZ, PL and SK 400kV grids</u>

TSO	Validity		Cont	ingency				Constra	int		Timestamps of
130	validity	U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code	max
Tennet		400	Diele	Meeden	axis	115%	400	Diele	Meeden	remaining	05:30
NL	3-6			Preventi	ve Action:	Decrease 2	taps on	Meeden PSTs - 9	91% remaining		
Amprion		400	Hanekenfarh	Meppen	N-1	124%	400	Hanekenfahr	Dorpen West		23:30
/ Tennet DE	7-15				<u>Pre</u>	ventive Ac	tion: Wi	nd curtailment			
T		400	Ens	Lelystad	axis	115%	400	Ens	Lelystad	remaining	10:30
Tennet NL	8-15	Prevent	ive Action: Lelys	tad in 2 nodes,	Tennet NL	confirms no			le for this constra	aint and they	will manage it in

				Comments					
U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code	Comments
	No constraint detected								

50HzT DC loopflows sensitivity

Vierraden-Krajnik 220kV axis in long term outage till 2018.



South analyses results

Security analyses have been performed for these 2 timestamps:

• Off-peak period (23:00 – 07:00): **06:30**

• Peak period (07:00 – 23:00): **16:30**

Adaptations made on merged DACFs:

Off-peak:

SI → IT physical flow adapted to the target flow : 800 MW

• Mendrisio-Cagno flow adapted to the schedule : 195 MW

• PST of Lienz adapted to 120 MW

• PST of Camporosso adapted to 200 MW

• PST of Rondissone on max. tap position

Peak:

• SI → IT physical flow adapted to the target flow : 800 MW

• Mendrisio-Cagno flow adapted to the schedule : 200 MW

• PST of Lienz adapted to 120 MW

• PST of Camporosso adapted to 200 MW

• PST of Rondissone on max. tap position

Special topologies

Nodes in South area									
		Off Peak	Peak						
	Swissgrid	Sils	1	1					
		Robbia	2	2					
	Rte	Génissiat	1	1					
		Albertville	1	1					
380 kV		Grande Ile	2	2					
		Turbigo	1	1					
	Terna	Baggio	1	1					
	Terna	Bovisio	1	1					
		Ostiglia	1	1					



N state flows Off-Peak & Peak

The Imax and load values in the table below are extracted from the adapted merged TSOs' DACF.

TCO	Valtage	Line (200 h))	Off I	Peak	Pe	ak
TSO	Voltage	Line (380 kV)	Imax (A)	% of Imax	Imax (A)	% of Imax
		Albertville - Rondissone 1	2370	66	2370	68
		Albertville - Rondissone 2	2370	66	2370	68
		Bulciago - Soazza	2300	28	2300	31
		Cagno - Mendrisio	855	39	855	39
	380 kV	Musignano - Lavorgo	2270	44	2270	42
		Redipuglia - Divaca	2700	34	2700	34
		Robbia - San Fiorano	2530	43	2530	46
		Robbia - Gorlago	2530	42	2530	49
Terna		Venaus - Villarodin	2715	45	2715	60
		Airolo - Ponte	900	0	900	0
		Lienz - Soverzene	750	42	750	39
		Menton - Campo Rosso	1165	43	1165	42
	220 kV	Padriciano - Divaca	960	56	960	41
		Riddes - Avise	1010	27	1010	39
		Riddes - Valpelline	1010	47	1010	45
		Serra - Pallanzeno	900	50	900	40

For Terna:			
	X < 50 % of Imax	50 ≤ X < 75 % of Imax	X ≥ 75% of Imax

Sensitivity coefficients for the Pentalateral instruction

The amount of the control program curtailment on peak and off-peak can be calculated thanks to the sensitivities in the table below:

		FR → IT	CH → IT	AT → IT	SI → IT
	Initial physical flows on adapted base case	3106	3402	128	862
Off Peak	Compensation ratio (calculated from NTC)	40%	48%	4%	9%
	Pentalateral impact on physical flows	-25%	-56%	-4%	-15%
	Initial physical flows on adapted base case	3436	3572	118	806
Peak	Compensation ratio (calculated from NTC)	39%	48%	4%	9%
	Pentalateral impact on physical flows	-26%	-56%	-4%	-15%



OFF PEAK Off Peak constraints on APG, Eles, RTE (South), Swissgrid and Terna 400kV grids and tie-lines

	TSO	Contingency					Constraint				
	130	U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code	
		380	Albertville	Grand Ile	N-2	100%(1')	380	Albertville	Grand Ile	3	
Off- Peak	Rte			113% (2 Curative action: 2 93% 100	O') remaini -node topo remaining O% (20') on Increase 4 remaining	ng on Albe	rtville - G ertville (Ile - Grar Longefa Praz PST Ile - Grar	Isolate busbar 1A) nd Ile n 1			

Security analysis restarted with preventive actions mentioned above

			Cont	ingency		Constraint				
	TSO	U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code
		380	Albertville	Rondissone	N-2	100%(10'	380	La Praz	PST	
Off- Peak	Rte / Terna			Incre	3% (20') rei ease 5 extra	hanger to r maining on a taps on th ng on the L	La Praz F e La Praz	PST PST	rST	

PEAK Peak constraints on APG, Eles, RTE (South), Swissgrid and Terna 400kV grids and tie-lines

	TC0	Contingency					Constraint					
	TSO	U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code		
		380	Albertville	Grand Ile	N-2	102%(1')	380	Albertville	Grand Ile	3		
Pea	k Rte			Curative action: 2	0') remaini !-node topo	ng on Albei	rtville - G ertville (I	Grand Ile Isolate busbar 1A)				

Security analysis restarted with preventive actions mentioned above

	TSO	Contingency					Constraint					
	130	U (kV)	Substation 1	Substation 2	Code	Overload	U (kV)	Substation 1	Substation 2	Code		
		380	Albertville	Rondissone	N-2	104%(10'	380	La Praz	PST			
Peak	Rte / Terna			Incre	9% (20') rei ease 7 extra	changer to r maining on a taps on th ining on La	La Praz F e La Praz	PST 2 PST	PST			



Final PSTs settings

The tables below present the tap positions and the physical flows on different PSTs with the adaptations described at the top of the page (IT-SI target flow...) and preventive actions (before Pentalateral reduction).

PST		Off Peak
	Tap position	Physical flow to Italy (MW)
La Praz (1/33)	1	839
Rondissone 1 (1/33)	33	1024
Rondissone 2 (1/33)	33	1025
Camporosso (-32/32)	0	203
Lienz (-32/32)	6	130
Padriciano (1/33)	1	215
Divaca (-32/32 each)	20	650

PST		Peak					
FSI	Tap position	Physical flow to Italy (MW)					
La Praz (1/33)	1	884					
Rondissone 1 (1/33)	33	1054					
Rondissone 2 (1/33)	33	1054					
Camporosso (-32/32)	6	199					
Lienz (-32/32)	-12	119					
Padriciano (1/33)	13	158					
Divaca (-32/32 each)	6	649					

Conclusion

CWE: Critical constraint detected in Netherlands to be monitored and managed in real time with redispatching.

CEE: No critical constraint detected. CSE: No critical constraints detected.