

ALL TSOS' SCENARIO DEFINITION AND SCENARIO DESCRIPTION FOR THE YEAR 2027 CGM CREATION IN ACCORDANCE WITH ARTICLE 65 OF THE COMMISSION REGULATION (EU) 2017/1485 OF 2 AUGUST 2017 ESTABLISHING A GUIDELINE ON ELECTRICITY TRANSMISSION SYSTEM OPERATION

Final | 15 July 2026

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All TSOs, taking into account the following,

WHEREAS

- (1) This document is a scenario definition for year 2027 and scenario description of All Transmission System Operators (hereafter referred to as “TSOs”).
- (2) Article 65 of Commission Regulation (EU) 2017/1485 establishing a guideline on electricity transmission system operation (hereafter referred to as “SOGI”). constitutes the legal basis for the scenario description.

Common list of 2027 year scenarios

All TSO's agreed on the following reference timestamp to create scenarios for 2027:

- Winter I Peak, 3rd Wednesday of January 2026, 18:30 CET,
- Spring Peak, 3rd Wednesday of April 2025, 19:30 CET,
- Summer Peak, 3rd Wednesday of July 2025, 12:30 CET,
- Autumn Peak, 3rd Wednesday of October 2025, 18:30 CET,
- Winter II Peak, 3rd Wednesday of December 2025, 18:30 CET.

The detailed description of scenarios is shown in the following paragraphs.

All elements which are foreseen to be in operation in any time of the scenario period are included in the scenarios. The planning horizon is based on available information till May 2026.

The net positions of scenarios, which are presented in the appendixes, shall be treated as preliminary and can be different in the final year ahead common grid model for dedicated scenarios due to implementation of re-dispatching as remedial actions for relieving of the congestions in n-1 situations.

Winter I peak scenario

The Winter peak scenario has been agreed by TSOs to meet the requirements for a year ahead model under SOGL and Forward Capacity Allocation (hereafter referred to as "FCA"). guidance notes. It covers the period from 1st January 2027 to 28th February 2027. The reference timestamp to represent this scenario is the third Wednesday in January 2026 at 18:30hrs (21st January 2026). It is the most probable representation of the Winter peak scenario.

TSOs have agreed this scenario will be based on an estimated demand and generation profile which is likely to be equivalent to a seasonal peak-load.

The generation pattern of renewable and conventional sources and the amount of power generated and consumed by facilities connected to the distribution grid will be modelled following the situation of the reference timestamp or using estimated information, ensuring the agreed net positions are matched. In general, the generation pattern will represent a fully available production park.

The net positions have been agreed between all TSOs. The scenario outline tables for each synchronous area can be found in Appendix 1.

TSOs will identify any known major system changes that are likely to change the system behaviour from 1st January 2027 to 28th February 2027. The changes identified are at: substation, branch,

generation or other significant plant level and are likely to influence system loading or cross border flows. These changes are listed in the scenario outline tables for each main plant or network item in Appendix 2.

Any major system outage(s), with a duration for the entire scenario period, will be included in this scenario model.

The real-life security limits of elements can vary around given thresholds in this scenario, depending on e.g.:

- load;
- temperature;
- infeed pattern;
- outage pattern;
- etc.

Spring peak scenario

The Spring peak scenario has been agreed by TSOs to meet the requirements for a year ahead model under SOGL and FCA guidance notes. It covers the period from 1st March 2027 to 31st May 2027. The reference timestamp to represent this scenario is the third Wednesday in April 2025 at 19:30hrs (16th April 2025). It is the most probable representation of the Spring peak scenario.

TSOs have agreed this scenario will be based on an estimated demand and generation profile which is likely to be equivalent to a seasonal peak-load.

The generation pattern of renewable and conventional sources and the amount of power generated and consumed by facilities connected to the distribution grid will be modelled following the situation of the reference timestamp or using estimated information, ensuring the agreed net positions are matched. In general, the generation pattern will represent a fully available production park.

The net positions have been agreed between all TSOs. The scenario outline tables for each synchronous area can be found in Appendix 3.

TSOs will identify any known major system changes that are likely to change the system behaviour from 1st March 2027 to 31st May 2027. The changes identified are at: substation, branch, generation or other significant plant level and are likely to influence system loading or cross border flows. These changes are listed in the scenario outline tables for each main plant or network item in Appendix 4.

Any major system outage(s), with a duration for the entire scenario period, will be included in this scenario model.

The real-life security limits of elements can vary around given thresholds in this scenario, depending on e.g.:

- load;
- temperature;
- infeed pattern;
- outage pattern;
- etc.

Summer peak scenario

The Summer peak scenario has been agreed by TSOs to meet the requirements for a year ahead model under SOGL and FCA guidance notes. It covers the period from 1st June 2027 to 31st August 2027. The reference timestamp to represent this scenario is the third Wednesday in July 2025 at 12:30hrs (16th July 2025). It is the most probable representation of the Summer peak scenario.

TSOs have agreed this scenario will be based on an estimated demand and generation profile which is likely to be equivalent to a seasonal peak-load.

The generation pattern of renewable and conventional sources and the amount of power generated and consumed by facilities connected to the distribution grid will be modelled following the situation of the reference timestamp or using estimated information, ensuring the agreed net positions are matched. In general, the generation pattern will represent a fully available production park.

The net positions have been agreed between all TSOs. The scenario outline tables for each synchronous area can be found in Appendix 5.

TSOs will identify any known major system changes that are likely to change the system behaviour from 1st June 2027 to 31st August 2027. The changes identified are at: substation, branch, generation or other significant plant level and are likely to influence system loading or cross border flows. These changes are listed in the scenario outline tables for each main plant or network item in Appendix 6.

Any major system outage(s), with a duration for the entire scenario period, will be included in this scenario model.

The real-life security limits of elements can vary around given thresholds in this scenario, depending on e.g.:

- load;
- temperature;
- infeed pattern;
- outage pattern;
- etc.

Autumn peak scenario

The Autumn peak scenario has been agreed by TSOs to meet the requirements for a year ahead model under SOGL and FCA guidance notes. It covers the period from 1st September 2027 to 30th November 2027. The reference timestamp to represent this scenario is the third Wednesday in October 2025 at 18:30hrs (15th October 2025). It is the most probable representation of the Autumn peak scenario.

TSOs have agreed this scenario will be based on an estimated demand and generation profile which is likely to be equivalent to a seasonal peak-load.

The generation pattern of renewable and conventional sources and the amount of power generated and consumed by facilities connected to the distribution grid will be modelled following the situation of the reference timestamp or using estimated information, ensuring the agreed net positions are matched. In general, the generation pattern will represent a fully available production park.

The net positions have been agreed between all TSOs. The scenario outline tables for each synchronous area can be found in Appendix 7.

TSOs will identify any known major system changes that are likely to change the system behaviour from 1st September 2027 to 30th November 2027. The changes identified are at: substation, branch, generation or other significant plant level and are likely to influence system loading or cross border flows. These changes are listed in the scenario outline tables for each main plant or network item in Appendix 8.

Any major system outage(s), with a duration for the entire scenario period, will be included in this scenario model.

The real-life security limits of elements can vary around given thresholds in this scenario, depending on e. g.:

- load;
- temperature;
- infeed pattern;
- outage pattern;
- etc.

Winter II peak scenario

The Winter peak scenario has been agreed by TSOs to meet the requirements for a year ahead model under SOGL and FCA guidance notes. It covers the period from 1st December 2027 to 31st December 2027. The reference timestamp to represent this scenario is the third Wednesday in December 2025 at 18:30hrs (17th December 2025). It is the most probable representation of the Winter peak scenario.

TSOs have agreed this scenario will be based on an estimated demand and generation profile which is likely to be equivalent to a seasonal peak-load.

The generation pattern of renewable and conventional sources and the amount of power generated and consumed by facilities connected to the distribution grid will be modelled following the situation of the reference timestamp or using estimated information, ensuring the agreed net positions are matched. In general, the generation pattern will represent a fully available production park.

The net positions have been agreed between all TSOs. The scenario outline tables for each synchronous area can be found in Appendix 9.

TSOs will identify any known major system changes that are likely to change the system behaviour from 1st December 2027 to 31st December 2027. The changes identified are at: substation, branch, generation or other significant plant level and are likely to influence system loading or cross border flows. These changes are listed in the scenario outline tables for each main plant or network item in Appendix 10.

Any major system outage(s), with a duration for the entire scenario period, will be included in this scenario model.

The real-life security limits of elements can vary around given thresholds in this scenario, depending on e.g.:

- load;
- temperature;
- infeed pattern;
- outage pattern;
- etc.

Language

The reference language for this common list of year-ahead scenarios shall be English.

Appendix 1: Agreed forecast AC and DC exchanges for the Winter I peak scenario

Area Net Position

Code	TSO	AC+DC	AC	DC
AL	OST-ALBANIA	389.02	389.02	0
AT	APG	918.852	918.852	0
BA	NOSBIH	243.846	243.846	0
BE	ELIA	-2095.298	-2171.676	76.378
BG	ESO	-150.267	-150.267	0
CAKOSTT	KOSOVA-TSMO	-528.263	-528.263	0
CH	SWISSGRID	1932.157	1932.157	0
CZ	CEPS	1489.386	1489.386	0
DE-50HERTZ	50HERTZ	7988.32	8439.777	-451.457
DE-AMPRION-SCHED	AMPRION	-5278.553	-5278.553	0
DE-TENNET_DE	TENNETG	1683.55	3229.57	-1546.02
DE-TRANSNETBW	TRANSNETBW	-4058.236	-4058.236	0
DK1	ENERGINET	470.514	-391.373	861.887
DK2	ENERGINET	-985.164	-896.22	-88.944
EE	ELERING	-630.591	330.553	-961.144
ES	REE	-284.953	-284.953	0
FI	FINGRID	-1959.527	-1847.849	-111.678
FR	RTE	12244.657	8595.773	3648.884
GB	NGET	-3688.477	0	-3688.477
GR	IPTO	334.862	34.862	300
HR	HOPS	-315.901	-315.901	0
HU	MAVIR	-2441.883	-2441.883	0
IT	TERNA	-8302.872	-8002.872	-300
LT	LITGRID	-753.173	-211.195	-541.978
LU	CREOS	-639.007	-639.007	0
LV	AST	30.642	30.642	0
ME	CGES	245.925	245.925	0

MK	MEPSO	-410.308	-410.308	0
MOLDOVA	MOLDELECTRICA	-586.41	-586.41	0
MOROCCO	REE	0	0	0
NL	TENNETNL	3104.42	2592.274	512.146
NO	STATNETT	5049.096	2425.492	2623.604
PL	PSE	-561.858	-100.561	-461.297
PT	REN	-58.877	-58.877	0
RO	TRANSELECTRICA	-1058.806	-1058.806	0
RS	EMS	61.202	61.202	0
SE	SVK	1922.006	318.578	1603.428
SEM	EIRGRID	-1475.331	0	- 1475.331
SI	ELES	427.623	427.623	0
SK	SEPS	529.463	529.463	0
TEIAS_AREA	TEIAS	-301.783	-301.783	0
UA-IPS	UA_WPS	-2500	-2500	0

Note: that sign of the Net Position is as follow: - import / + export

DC Interconnector Exchanges (in the indicated direction)

Cable_name	Circuit	From_TSO	To_TSO	Gross flow	DC Net flow
Alegro	ALEGRO DC	ELIA	DE_Amprion	0	0
BalticCable	Herrenwyk-Kruseberg	DE_TenneT DE	Svenska kraftnat	-229.148	-225.241
BritNed	Maasvlakte-Isle of Grain	NG ESO	TenneT NL	-304.058	-301.017
COBRA	COBRACable	Energinet West	TenneT NL	-489.25	-478.434
ElecLink	ElecLink	RTE	NG ESO	1000	985
Estlink	Espoo-Harku (Estlink)	Elering	FINGRID	-340.871	-323.487
Estlink	Anttila-Pyssi (Estlink2)	Elering	FINGRID	-620.273	-606.627
EWIC	Woodland-Deeside	Eirgrid/SONI	NG ESO	-505.169	-500.117
FennoSkan	Dannebo-Rauma (Fenno-Skan 1)	Svenska kraftnat	FINGRID	357.898	348.593
FennoSkan	Finnböle-Rauma (Fenno-Skan 2)	Svenska kraftnat	FINGRID	714.924	697.051
GreenLink	GreenLink	Eirgrid/SONI	NG ESO	-474.351	-463.441
Grita	Arachthos-Galatina	IPTO	TERNA	300	297
IFA	Mandarins-Sellindge 1	RTE	NG ESO	824.442	814.549
IFA	Mandarins-Sellindge 2	RTE	NG ESO	824.442	814.549
IFA2	Tourbe-Daedulus	RTE	NG ESO	1000	985
Kontek	Bentwisch-Bjaeverskov	DE_50Hertz	Energinet East	-451.457	-443.167
KontiSkan	Vester Hassing-Lindome 1	Svenska kraftnat	Energinet West	-350.507	-341.334
KontiSkan	Vester Hassing-Lindome 2	Svenska kraftnat	Energinet West	-351.31	-341.334
Moyle	Ballycronamore-Auchencrosh	Eirgrid/SONI	NG ESO	-495.811	-490.853
NEMO	nemo Link	NG ESO	ELIA	-76.378	-75.614
NordBalt	Klaipeda-Nybro (Nordbalt)	Litgrid	Svenska kraftnat	-541.978	-522.083
NordLink	NordLink cable pole1	Statnett	DE_TenneT DE	658.436	644.893
NordLink	NordLink cable pole2	Statnett	DE_TenneT DE	658.436	644.893

NorNed	NorNed Cable	TenneT NL	Statnett	-281.162	-272.444
North Sea Link	NSN Link 1	Statnett	NG ESO	67.245	65.154
North Sea Link	NSN Link 2	Statnett	NG ESO	67.245	65.154
Skagerrak	Tjele-Kristiansand 1	Energinet West	Statnett	-130.032	-125.098
Skagerrak	Tjele-Kristiansand 2	Energinet West	Statnett	-130.032	-125.098
Skagerrak	Tjele-Kristiansand 3	Energinet West	Statnett	-262.964	-257.146
Skagerrak	Tjele-Kristiansand 4	Energinet West	Statnett	-368.053	-361.395
StoreBælt	FRAUGDE-HERSLEV	Energinet West	Energinet East	540.401	531.669
SwePol	Slupsk-Karlshamn	PSE	Svenska kraftnat	-461.297	-446.6
Viking Link	Viking link cable pole 2	Energinet West	NG ESO	500	500
Viking Link	Viking link cable pole 1	Energinet West	NG ESO	500	500

Appendix 2: System changes for the Winter I peak scenario

Substations

TSO	Name of Station	U [kV/kV]	Commissioning / Decommissioning
50Hertz	Eulenberg	380	Commissioning
Fingrid	Honkajoki	400	Commissioning
Fingrid	Vanhakaupunki	400	Commissioning
OST	Elbasan 3	380	Commissioning
OST	Tirana 3	380	Commissioning
RTE	HOQUINS	380	Commissioning
TenneT NL	Amaliahaven	380	Commissioning
TenneT NL	Tilburg	380	Commissioning

Lines

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
50Hertz	Wolmirstedt- Förderstedt 437	D8WOL_1*	D8FOE_1*	380	Decommissioning
50Hertz	Wolmirstedt- Förderstedt 438	D8WOL_1*	D8FOE_1*	380	Decommissioning
50Hertz	Wolmirstedt-Eulenberg 437	D8WOL_1*	D8EUB_1*	380	Commissioning
50Hertz	Wolmirstedt-Eulenberg 438	D8WOL_1*	D8EUB_1*	380	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
50Hertz	Eulenberg-Förderstedt 439	D8EUB_1*	D8FOE_1*	380	Commissioning
50Hertz	Eulenberg-Förderstedt 440	D8EUB_1*	D8FOE_1*	380	Commissioning
50Hertz	Güstrow-Parchim Süd	D8GUE_1*	D8PMS_1*	380	Commissioning
APG	Pongau - Weissenbach 221	OPONG 2*	OWEISS2*	220	Decommissioning
APG	Pongau - Weissenbach 222	OPONG 2*	OWEISS2*	220	Decommissioning
Fingrid	Länsisalmi-Vanhakaupunki	Länsisalmi	Vanhakaupunki	400	Commissioning
Fingrid	Nuojuankangas-Höyttikangas	Nuojuankangas	Höyttikangas	400	Commissioning
Fingrid	Höyttikangas-Alapitkä	Höyttikangas	Alapitkä	400	Commissioning
Fingrid	Alapitkä-Huutokoski	Alapitkä	Huutokoski	400	Commissioning
Moldelectrica	LN-lne_630300_6	7VULKA11	7CHISI11	400	Commissioning
OST	Zemblak-Elbasan 2	AZEMLA1	AELBS21	380	Decommissioning
OST	Zemblak-Elbasan 3	AZEMLA1	AELBS31	380	Commissioning
OST	Elbasan 2-Elbasan 3	AELBS21	AELBS31	380	Commissioning
OST	Elbasan 2-Elbasan 3	AELBS21	AELBS31	380	Commissioning
OST	Elbasan 2-Tirana 2	AELBS21	ATIRA21	380	Decommissioning
OST	Elbasan 3-Tirana 3	AELBS31	ATIRA31	380	Commissioning
OST	Tirana 2-Tirana 3	ATIRA21	ATIRA31	380	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
RTE	Lonny - Mastaing 3	Lonny	Mastaing	400	Decommissioning
RTE	Lonny - Hoquins	Lonny	Hoquins	400	Commissioning
RTE	Hoquins - Mastaing	Hoquins	Mastaing	400	Commissioning
Swissgrid	Giswil - Innertkirchen	Giswil	Innertkirchen	220	Decommissioning
Swissgrid	Giswil - Littau	Giswil	Littau	220	Decommissioning
TenneT NL	Geertruidenberg - Tilburg 380kV Wit	GT	TLB	380	Commissioning
TenneT NL	Geertruidenberg - Tilburg 380kV Grijs	GT	TLB	380	Commissioning
TenneT NL	Eindhoven - Tilburg 380kV Wit	EHV	TLB	380	Commissioning
TenneT NL	Eindhoven - Tilburg 380kV Grijs	EHV	TLB	380	Commissioning
TenneT DE	Landesbergen-Sottrum 1	D2LAND2*	D2SOTT2*	220	Decommissioning
TenneT DE	Landesbergen-Sottrum 2	D2LAND2*	D2SOTT2*	220	Decommissioning

Interconnections

No changes for interconnections planned for Winter I 2027.

Transformers and PSTs

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
50Hertz	Tr 414	Malchow	380/110	0	Commissioning

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
50Hertz	Tr 413	Parchim Süd	380/110	0	Commissioning
Amprion	Schwelgern TR 211	D7SHWEL2*	220/110		Decommissioning
Amprion	Ensdorf TR 211	D7ENSD2*	220/110		Decommissioning
Amprion	Muehlenberg TR 421	D7MUEH1*	380/220		Commissioning
Amprion	Olefin TR 212	D7OLEF2*	220/110		Commissioning
Amprion	Kriftel TR 414	D7KRIF1*	380/110		Commissioning
ELES	POD220 TR221	Podlog	220/220	18°	Commissioning
Fingrid	TM_ACT3	Tammisto	400/110		Commissioning
Fingrid	VP_ACT1	Vanhakaupunki	400/110		Commissioning
Moldeletrica	TR-tr3_630300_6	7CHISI11	400/330		Commissioning
PSE	JAS-A4	ZJAS54	400/110		Commissioning
PSE	JAS-A1	ZJAS52	220/110		Decommissioning
RTE	Vigy 762	Vigy	400/225		Commissioning
RTE	Saint Avold 762	Saint Avold	400/225		Commissioning
RTE	Hoquins 761	Hoquins	400/225		Commissioning

Generation units

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/ Decommissioning
MAVIR	Sajószöged Dél Naperórmű	Sajószöged	220	Solar	Commissioning
PSE	Ostrołęka C	OSC_4-01	400	Thermal (gas)	Commissioning
PSE	Baltica II	BA2_4-01	400	Wind	Commissioning

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/Decommissioning
PSE	Bałyk Środkowy II	BS2_4-01	400	Wind	Commissioning
SEPS	Mochovce 4	Mochovce	400	Nuclear	Commissioning

Appendix 3: Agreed forecast AC and DC exchanges for the Spring peak scenario

Area Net Position

Code	TSO	AC+DC	AC	DC
AL	OST-ALBANIA	206.023	206.023	0
AT	APG	-1260.484	-1260.484	0
BA	NOSBIH	505.313	505.313	0
BE	ELIA	-2497.722	-2459.296	-38.426
BG	ESO	677.575	677.575	0
CAKOSTT	KOSOVA-TSMO	-75.467	-75.467	0
CH	SWISSGRID	2194.96	2194.96	0
CZ	CEPS	2048.737	2048.737	0
DE-50HERTZ	50HERTZ	2855.779	3213.263	-357.484
DE-AMPRION-SCHED	AMPRION	-4382.387	-4382.387	0
DE-TENNET_DE	TENNETG	-2823.244	-1523.244	-1300
DE-TRANSNETBW	TRANSNETBW	-1985.248	-1985.248	0
DK1	ENERGINET	-831.082	2207.404	-3038.486
DK2	ENERGINET	-1207.667	-1218.262	10.595
EE	ELERING	-107.438	66.806	-174.244
ES	REE	156.318	156.318	0
FI	FINGRID	-2713.829	-1688.073	-1025.756
FR	RTE	11259.505	7909.313	3350.192
GB	NGET	-2616.853	0	-2616.853
GR	IPTO	635.733	235.733	400
HR	HOPS	65.917	65.917	0
HU	MAVIR	-1827.024	-1827.024	0
IT	TERNA	-6722.515	-6322.515	-400
LT	LITGRID	-333.475	362.405	-695.88
LU	CREOS	-578.996	-578.996	0
LV	AST	-404.184	-404.184	0
ME	CGES	152.236	152.236	0

MK	MEPSO	5.655	5.655	0
MOLDOVA	MOLDELECTRICA	-376.484	-376.484	0
MOROCCO	REE	0	0	0
NL	TENNETNL	2593.633	2338.76	254.873
NO	STATNETT	6330.66	2178.867	4151.793
PL	PSE	-1511.209	-943.605	-567.604
PT	REN	32.298	32.298	0
RO	TRANSELECTRICA	232.26	232.26	0
RS	EMS	271.284	271.284	0
SE	SVK	4205.952	727.468	3478.484
SEM	EIRGRID	-1431.204	0	-1431.204
SI	ELES	570.286	570.286	0
SK	SEPS	374.204	374.204	0
TEIAS_AREA	TEIAS	207.74	207.74	0
UA-IPS	UA_WPS	-1895.556	-1895.556	0

Note: that sign of the Net Position is as follow: - import / + export

DC Interconnector Exchanges (in the indicated direction)

Cable_name	Circuit	From_TSO	To_TSO	Gross flow	DC	Net flow	DC
Alegro	ALEGRO DC	ELIA	DE_Amprion	0		0	
BalticCable	Herrenwyk-Kruseberg	DE_TenneT DE	Svenska kraftnat	-612.969		-600	
BritNed	Maasvlakte-Isle of Grain	NG ESO	TenneT NL	-449.226		-444.734	
COBRA	COBRACable	Energinet West	TenneT NL	-213.375		-209.359	
ElecLink	ElecLink	RTE	NG ESO	962.548		948.11	
Estlink	Espoo-Harku (Estlink)	Elering	FINGRID	-61.796		-58.644	
Estlink	Anttila-Pyssi (Estlink2)	Elering	FINGRID	-112.448		-109.974	
EWIC	Woodland-Deeside	Eirgrid/SONI	NG ESO	-495.571		-490.615	
FennoSkan	Dannebo-Rauma (Fenno-Skan 1)	Svenska kraftnat	FINGRID	400.325		389.917	
FennoSkan	Finnböle-Rauma (Fenno-Skan 2)	Svenska kraftnat	FINGRID	799.675		779.683	
GreenLink	GreenLink	Eirgrid/SONI	NG ESO	-477.02		-466.049	
Grita	Arachthos-Galatina	IPTO	TERNA	400		396	
IFA	Mandarins-Sellindge 1	RTE	NG ESO	712.548		703.997	
IFA	Mandarins-Sellindge 2	RTE	NG ESO	712.548		703.997	
IFA2	Tourbe-Daedulus	RTE	NG ESO	962.548		948.11	
Kontek	Bentwisch-Bjaeverskov	DE_50Hertz	Energinet East	-357.484		-351.341	
KontiSkan	Vester Hassing-Lindome 1	Svenska kraftnat	Energinet West	199.781		195.789	
KontiSkan	Vester Hassing-Lindome 2	Svenska kraftnat	Energinet West	200.219		195.789	
Moyle	Ballycronanmore-Auchencrosh	Eirgrid/SONI	NG ESO	-458.612		-454.026	
NEMO	nemo Link	NG ESO	ELIA	38.426		38.042	
NordBalt	Klaipeda-Nybro (Nordbalt)	Litgrid	Svenska kraftnat	-695.88		-665.547	
NordLink	NordLink cable pole1	Statnett	DE_TenneT DE	342.5		336.622	
NordLink	NordLink cable pole2	Statnett	DE_TenneT DE	342.5		336.622	

NorNed	NorNed Cable	TenneT NL	Statnett	-407.728	-395.085
North Sea Link	NSN Link 1	Statnett	NG ESO	693.533	677.687
North Sea Link	NSN Link 2	Statnett	NG ESO	693.533	677.687
Skagerrak	Tjele-Kristiansand 1	Energinet West	Statnett	-246.075	-232.579
Skagerrak	Tjele-Kristiansand 2	Energinet West	Statnett	-246.075	-232.579
Skagerrak	Tjele-Kristiansand 3	Energinet West	Statnett	-491.989	-478.08
Skagerrak	Tjele-Kristiansand 4	Energinet West	Statnett	-687.862	-671.896
StoreBælt	FRAUGDE-HERSLEV	Energinet West	Energinet East	346.889	341.907
SwePol	Slupsk-Karlshamn	PSE	Svenska kraftnat	-567.604	-546.39
Viking Link	Viking link cable pole 2	Energinet West	NG ESO	-550	-550
Viking Link	Viking link cable pole 1	Energinet West	NG ESO	-550	-550

Appendix 4: System changes for the Spring peak scenario

Substations

TSO	Name of Station	U [kV/kV]	Commissioning / Decommissioning
NOSBiH	Stolac	220	Commissioning
OST	Fier	380	Commissioning
TEIAS	Akkuyu	400	Commissioning
TransnetBW	Bühl	380	Commissioning
TransnetBW	Bühl	220	Decommissioning
TransnetBW	Rheinau	380	Commissioning
TenneT DE	Ulzburg	380	Commissioning

Lines

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
Amprion	Provisorium Hamaland - Salzbergen West 1	D7GRON1*	D7KLUE1*	380	Decommissioning
Amprion	Prov. Hochlarmark O/Cappenberg N	D7POEP2*	D7YPOE2*	220	Decommissioning
Amprion	Prov. Hochlarmark O/Cappenberg N	D7KUSE2*	D7YPOE2*	220	Decommissioning
Amprion	Prov. Hochlarmark O/Cappenberg N	D7RUHR2*	D7YPOE2*	220	Decommissioning
Amprion	Hamaland	D7GRON1*	D7KUSE1*	380	Commissioning
NOSBiH	Mostar 3 - Hodovo	Mostar 3	Hodovo	220	Decommissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
NOSBiH	Mostar 3 - Trebinje (I)	Mostar 3	Trebinje	220	Decommissioning
NOSBiH	Mostar 3 - Stolac (I)	Mostar 3	Stolac	220	Commissioning
NOSBiH	Mostar 3 - Stolac (II)	Mostar 3	Stolac	220	Commissioning
NOSBiH	Stolac - Hodovo	Stolac	Hodovo	220	Commissioning
OST	Fier-Elbasan 3	AFIER 1	AELBS31	380	Commissioning
PSE	N011	ZDUN54	ZZDK54	400	Commissioning
PSE	6007	ZDUN52	ZZDK52	220	Decommissioning
PSE	431	ZDUN54	ZPKW44	400	Commissioning
PSE	219	ZPKW42	ZZDK52	220	Decommissioning
Swissgrid	Breite - Schlattigen	Breite	Schlattigen	220	Commissioning
Swissgrid	Giswil - Innertkirchen	Giswil	Innertkirchen	220	Commissioning
Swissgrid	Giswil - Littau	Giswil	Littau	220	Commissioning
TEIAS	AkkuyuNGS-Ermenek	TAKKYN11	TERMEN11	400	Commissioning
TEIAS	AkkuyuNGS-Mersin	TAKKYN11	TMER3811	400	Commissioning
TEIAS	AkkuyuNGS-Karatay	TAKKYN11	TKONY411	400	Commissioning
TEIAS	AkkuyuNGS-Seydisehir	TAKKYN11	TSYDSY11	400	Commissioning
TEIAS	AkkuyuNGS-Kizilot	TAKKYN11	TKZLOT11	400	Commissioning
TEIAS	Gölbaşı-Ada2	TGOLBS11	TADA2D11	400	Commissioning
Transnet BW	Daxlanden- Eichstetten_C1 green	Daxlanden	Eichstetten_C1	380	Decommissioning
Transnet BW	Bühl-Weier green	Bühl	Weier	220	Decommissioning
Transnet BW	Bühl-Y_Bühl red	Bühl	Y_Bühl	220	Decommissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
Transnet BW	Daxlanden-Y_Bühl red	Daxlanden	Y_Bühl	220	Decommissioning
Transnet BW	Kuppenheim-Y_Bühl red	Kuppenheim	Y_Bühl	220	Decommissioning
Transnet BW	Daxlanden-Kuppenheim red	Daxlanden	Kuppenheim	220	Commissioning
Transnet BW	Bühl-Daxlanden brown	Bühl	Daxlanden	380	Commissioning
Transnet BW	Bühl-Eichstetten_C1 green	Bühl	Eichstetten_C1	380	Commissioning
Transnet BW	Metzingen-Wendlingen yellow	Metzingen	Wendlingen	380	Decommissioning
Transnet BW	Endersbach-Wendlingen blue	Endersbach	Wendlingen	380	Decommissioning
Transnet BW	Endersbach-Y_Endersbach blue/yellow	Endersbach	Y_Endersbach	380	Commissioning
Transnet BW	Metzingen-Y_Endersbach blue/yellow	Metzingen	Y_Endersbach	380	Commissioning
Transnet BW	Wendlingen-Y_Endersbach blue/yellow	Wendlingen	Y_Endersbach	380	Commissioning
Transnet BW	Großgartach_C1-Heilbronn red	Großgartach_C1	Heilbronn	380	Decommissioning
Transnet BW	Rheinau-Rheinau_C1 red	Rheinau	Rheinau	380	Commissioning
TenneT DE	Altheim - Simbach - Sankt Peter/APG 233/230	D2AHM 2*	D2YSI 2*	220	Decommissioning
TenneT DE	Altheim - Simbach - Sankt Peter/APG 233/230	XPE_AH21	D2YSI 2*	220	Decommissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
TenneT DE	Altheim - Simbach - Sankt Peter/APG 233/230	D2SI 2*	D2YSI 2*	220	Decommissioning
TenneT DE	Altheim - Sankt Peter/APG 233	D2AHM 2*	XPE_AH21	220	Commissioning
TenneT DE	Simbach - Sankt Peter/APG 481	D2SI 1*	XPE_SI11	380	Commissioning
TenneT DE	Altheim - Simbach - Sankt Peter/APG 234/230	D2AHM 2*	D2YSI 2*	220	Decommissioning
TenneT DE	Altheim - Simbach - Sankt Peter/APG 234/230	XPE_SI21	D2YSI 2*	220	Decommissioning
TenneT DE	Altheim - Simbach - Sankt Peter/APG 234/230	D2SI 2*	D2YSI 2*	220	Decommissioning
TenneT DE	Altheim - Sankt Peter/APG 234/230	D2AHM 2*	XPE_SI21	220	Commissioning
TenneT DE	Simbach - Sankt Peter/APG 482	D2SI 1*	XPE_OH11	380	Commissioning
TenneT DE	Audorf/S - Kummerfeld schwarz	D2AUDS1*	D2KUMM1*	380	Decommissioning
TenneT DE	Audorf/S - Hamburg/N/50Hertz weiss	D2AUDS1*	XNO_AU1*	380	Decommissioning
TenneT DE	Audorf/S - Ulzburg schwarz	D2AUDS1*	D2ULBG1*	380	Commissioning
TenneT DE	Ulzburg - Kummerfeld schwarz	D2ULBG1*	D2KUMM1*	380	Commissioning
TenneT DE	Audorf/S - Ulzburg weiss	D2AUDS1*	D2ULBG1*	380	Commissioning
TenneT DE	Ulzburg - Hamburg/N/50Hertz weiss	D2ULBG1*	XNO_AU1*	380	Commissioning

Interconnections

X-node	TSO	To-Node	U [kV]	Commissioning/ Decommissioning
XHD_RH51	Amprion	Rheinau	110	Decommissioning
XHD_RH51	TransnetBW	Heidelberg	110	Decommissioning
XPE_OH11	TenneT DE	D2SI 1*	380	Commissioning
XPE_OH11	APG	OPETER1*	380	Commissioning
XPE_SI11	TenneT DE	D2SI 1*	380	Commissioning
XPE_SI11	APG	OPETER1*	380	Commissioning
XRH_RH11	TransnetBW	Rheinau	380	Commissioning
XRH_RH11	Amprion	Rheinau	380	Commissioning

Transformers and PSTs

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
Amprion	Kriftel TR 411	D7KRIF1*	380/110		Decommissioning
Amprion	Buerstadt TR 211	D7BUER2*	220/110		Decommissioning
Amprion	Schwelgern TR 211	D7SHWEL2*	220/110		Commissioning
Amprion	Kriftel TR 411	D7KRIF1*	380/110		Commissioning
OST	-	Tirana 3 400	400/110		Commissioning
OST	-	Tirana 3 400	400/110		Commissioning
OST	-	Fier 400	400/220		Commissioning
PSE	ZDK-A3	ZZDK54	400/110		Commissioning
PSE	PKW-A4	ZPKW44	400/110		Commissioning
PSE	PKW-A3	ZPKW44	400/110		Commissioning
PSE	PKW-A2	ZPKW42	220/110		Decommissioning
PSE	PKW-A1	ZPKW42	220/110		Decommissioning
PSE	TCN-A3	ZTCN34	400/110		Commissioning
PSE	DUN-A1	ZDUN54	400/220	+/- 7.99	Decommissioning
TransnetBW	BmT201	Bühl	220/110	0	Decommissioning

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
TransnetBW	BmT411	Bühl	380/110	0	Commissioning
TransnetBW	BmT202	Eichstetten	220/110	0	Decommissioning
TransnetBW	BmT413	Eichstetten	380/110	0	Commissioning
TransnetBW	BmT412	Rheinau	380/110	0	Commissioning
TenneT DE	T425	D2BECH1*	380/220	0	Commissioning

Generation units

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/ Decommissioning
NOSBiH	HZHB 1	Stolac	220	Solar	Commissioning
PSE	Bałtyk Środkowy	BS3_4-01	400	Wind	Commissioning
TransnetBW	Heilbronn 8	Heilbronn	380	Thermal (gas)	Commissioning
TransnetBW	Altbach HKW3	Altbach	380	Thermal (gas)	Commissioning
TransnetBW	Altbach HKW1	Altbach	380	Coal	Decommissioning

Appendix 5: Agreed forecast AC and DC exchanges for the Summer peak scenario

Area Net Position

Code	TSO	AC+DC	AC	DC
AL	OST-ALBANIA	-165.087	-165.087	0
AT	APG	1637	1637	0
BA	NOSBIH	240	240	0
BE	ELIA	-2164.897	-2292.129	127.232
BG	ESO	802.035	802.035	0
CAKOSTT	KOSOVA-TSMO	-348.983	-348.983	0
CH	SWISSGRID	-597	-597	0
CZ	CEPS	-1210	-1210	0
DE-50HERTZ	50HERTZ	3157.276	3123.289	33.987
DE-AMPRION-SCHED	AMPRION	-2404	-2404	0
DE-TENNET_DE	TENNETG	-3336.978	-2071.887	-1265.091
DE-TRANSNETBW	TRANSNETBW	-1432.492	-1432.492	0
DK1	ENERGINET	-1269.878	92.31	-1362.188
DK2	ENERGINET	-639.238	-889.938	250.7
EE	ELERING	-180.3	565.428	-745.728
ES	REE	-405	-405	0
FI	FINGRID	-502.034	-1090.078	588.044
FR	RTE	15000	12127.978	2872.022
GB	NGET	-4475.95	0	-4475.95
GR	IPTO	200	100	100
HR	HOPS	-1597	-1597	0
HU	MAVIR	1301.731	1301.731	0
IT	TERNA	-7659	-7559	-100
LT	LITGRID	-817.6	-242.133	-575.467
LU	CREOS	-467.042	-467.042	0
LV	AST	-256.8	-256.8	0
ME	CGES	-124.156	-124.156	0

MK	MEPSO	38.897	38.897	0
MOLDOVA	MOLDELECTRICA	-197.995	-197.995	0
MOROCCO	REE	0	0	0
NL	TENNETNL	2050	1173.499	876.501
NO	STATNETT	3506.998	-180.207	3687.205
PL	PSE	1100	1284.562	-184.562
PT	REN	-86.18	-86.18	0
RO	MOLDELECTRICA	-600	-600	0
RS	EMS	-600	-600	0
SE	SVK	3858.518	2160.223	1698.295
SEM	EIRGRID	-1525	0	-1525
SI	ELES	92	92	0
SK	SEPS	183.911	183.911	0
TEIAS_AREA	TEIAS	-557.74	-557.74	0
UA-IPS	UA_WPS	451.982	451.982	0

Note: that sign of the Net Position is as follow: - import / + export

DC Interconnector Exchanges (in the indicated direction)

Cable_name	Circuit	From_TSO	To_TSO	Gross flow	DC	Net flow	DC
Alegro	ALEGRO DC	ELIA	DE_Amprion	0		0	
BalticCable	Herrenwyk-Kruseberg	DE_TenneT DE	Svenska kraftnat	-598.597		-586.095	
BritNed	Maasvlakte-Isle of Grain	NG ESO	TenneT NL	-601.696		-595.679	
COBRA	COBRACable	Energinet West	TenneT NL	-279.94		-274.669	
ElecLink	ElecLink	RTE	NG ESO	1000		985	
Estlink	Espoo-Harku (Estlink)	Elering	FINGRID	-264.473		-250.985	
Estlink	Anttila-Pyssi (Estlink2)	Elering	FINGRID	-481.255		-470.667	
EWIC	Woodland-Deeside	Eirgrid/SONI	NG ESO	-525		-519.75	
FennoSkan	Dannebo-Rauma (Fenno-Skan 1)	Svenska kraftnat	FINGRID	0		0	
FennoSkan	Finnböle-Rauma (Fenno-Skan 2)	Svenska kraftnat	FINGRID	157.684		155.6	
GreenLink	GreenLink	Eirgrid/SONI	NG ESO	-500		-488.5	
Grita	Arachthos-Galatina	IPTO	TERNA	100		99	
IFA	Mandarins-Sellindge 1	RTE	NG ESO	624.008		616.52	
IFA	Mandarins-Sellindge 2	RTE	NG ESO	624.007		616.519	
IFA2	Tourbe-Daedulus	RTE	NG ESO	624.007		614.647	
Kontek	Bentwisch-Bjaeverskov	DE_50Hertz	Energinet East	33.987		31.897	
KontiSkan	Vester Hassing-Lindome 1	Svenska kraftnat	Energinet West	90.907		89.068	
KontiSkan	Vester Hassing-Lindome 2	Svenska kraftnat	Energinet West	91.078		89.068	
Moyle	Ballycronanmore-Auchencrosh	Eirgrid/SONI	NG ESO	-500		-495	
NEMO	nemo Link	NG ESO	ELIA	-127.232		-125.96	
NordBalt	Klaipeda-Nybro (Nordbalt)	Litgrid	Svenska kraftnat	-575.467		-553.498	
NordLink	NordLink cable pole1	Statnett	DE_TenneT DE	333.247		327.541	
NordLink	NordLink cable pole2	Statnett	DE_TenneT DE	333.247		327.541	

NorNed	NorNed Cable	TenneT NL	Statnett	-5.135	-4.976
North Sea Link	NSN Link 1	Statnett	NG ESO	700	683.937
North Sea Link	NSN Link 2	Statnett	NG ESO	700	683.937
Skagerrak	Tjele-Kristiansand 1	Energinet West	Statnett	-237.621	-224.902
Skagerrak	Tjele-Kristiansand 2	Energinet West	Statnett	-237.621	-224.902
Skagerrak	Tjele-Kristiansand 3	Energinet West	Statnett	-475.481	-462.299
Skagerrak	Tjele-Kristiansand 4	Energinet West	Statnett	-664.852	-649.717
StoreBælt	FRAUGDE-HERSLEV	Energinet West	Energinet East	-284.687	-280.562
SwePol	Slupsk-Karlshamn	PSE	Svenska kraftnat	-184.562	-180.874
Viking Link	Viking link cable pole 2	Energinet West	NG ESO	500	500
Viking Link	Viking link cable pole 1	Energinet West	NG ESO	500	500

Appendix 6: System changes for the Summer peak scenario

Substations

TSO	Name of Station	U [kV/kV]	Commissioning / Decommissioning
Amprion	Zensenbusch	380	Commissioning
Litgrid	Latvenu	330	Commissioning
Statnett	Langerud	420	Commissioning
Statnett	Dalekvam	300	Commissioning
Statnett	Skyberg	300	Commissioning
TransnetBW	Beuren	220	Decommissioning
TransnetBW	Beuren_C1	220	Commissioning

Lines

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
Amprion	Gersteinwerk Ost	D7GERS1*	D7YGER1*	380	Decommissioning
Amprion	Gersteinwerk Ost	D7GUET1*	D7YGER1*	380	Decommissioning
Amprion	Gersteinwerk Ost	D7UENT1*	D7YGER1*	380	Decommissioning
Amprion	Uentrop Nord	D7UENT1*	D7YGER1*	380	Decommissioning
Amprion	Uentrop Nord	D7GERS1*	D7YGER1*	380	Decommissioning
Amprion	Uentrop Nord	D7HANE1*	D7YGER1*	380	Decommissioning
Amprion	Lamsheim West	D7LAMB1*	D7WEIN1*	380	Decommissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
Amprion	Weinstraße West	D7WEIN1*	D7MAXA1*	380	Decommissioning
Amprion	Getterbach Ost	D7GERS1*	D7YROX1*	380	Commissioning
Amprion	Getterbach Ost	D7UENT1*	D7YROX1*	380	Commissioning
Amprion	Getterbach Ost	D7ROXE1*	D7YROX1*	380	Commissioning
Amprion	Getterbach West	D7GERS1*	D7YUEN1*	380	Commissioning
Amprion	Getterbach West	D7ROXE1*	D7YUEN1*	380	Commissioning
Amprion	Getterbach West	D7HANE1*	D7YUEN1*	380	Commissioning
Amprion	Guetersloh Nord	D7UENT1*	D7GUET1*	380	Commissioning
Amprion	Zensenbusch Süd	D7NRHE1*	D7YZEN1*	380	Commissioning
Amprion	Zensenbusch Süd	D7UTFO1*	D7YZEN1*	380	Commissioning
Amprion	Zensenbusch Süd	D7ZENS*	D7YZEN1*	380	Commissioning
Amprion	Niederrhein West	D7NRHE1*	D7YZEN1*	380	Commissioning
Amprion	Niederrhein West	D7WALS1*	D7YZEN1*	380	Commissioning
Amprion	Niederrhein West	D7ZENS1*	D7YZEN1*	380	Commissioning
Amprion	Roehe Süd	D7VERL1*	D7ZKUN1*	380	Commissioning
APG	Ernsthofen - Klaus 201B	OERNST2*	OKLAUS2*	220	Decommissioning
APG	Klaus - Pyhrn 201B.	OKLAUS2*	OPYHRN2*	220	Decommissioning
APG	Klaus - Phyrn 201B	OKLAUS2*	OPYHRN2*	220	Commissioning
APG	Klaus - Ernsthofen 201C	OKLAUS2*	OERNST2*	220	Commissioning
Satnett	300 Dale-Evanger	Dale	Evanger	300	Decommissioning
Statnett	300 Dalekvam-Evanger	Dalekvam	Evanger	300	Commissioning
Statnett	420 Follo-Tegneby	Follo	Tegneby	420	Decommissioning
Statnett	420 Follo-Langerud	Follo	Langerud	420	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
Statnett	420 Sylling-Tegneby	Sylling	Tegneby	420	Decommissioning
Statnett	420 Sylling-Langerud	Sylling	Langerud	420	Commissioning
Statnett	420 Tegneby-Hasle	Tegneby	Hasle	420	Decommissioning
Statnett	420 Langerud-Hasle	Langerud	Hasle	420	Commissioning
Statnett	300 Arna-Dale	Arna	Dale	300	Decommissioning
Statnett	300 Arna-Dalekvam	Arna	Dalekvam	300	Commissioning
Statnett	300 Fåberg-Røykås	Fåberg	Røykås	300	Decommissioning
Statnett	300 Fåberg-Skyberg	Fåberg	Skyberg	300	Commissioning
Statnett	300 Skyberg-Røykås	Skyberg	Røykås	300	Commissioning
TransnetBW	Beuren-Gurtweil yellow	Beuren	Gurtweil	220	Decommissioning
TransnetBW	Beuren-Stockach blue	Beuren	Stockach	220	Decommissioning
TransnetBW	Beuren_C1-Gurtweil yellow	Beuren_C1	Gurtweil	220	Commissioning
TransnetBW	Beuren_C1-Stockach blue	Beuren_C1	Stockach	220	Commissioning

Interconnections

No changes for interconnections planned for Summer 2027.

Transformers and PSTs

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
Amprion	Bollenacker TR 211	D7BOLA2*	220/110		Decommissioning
Amprion	Muehlenberg TR 401	D7MUEH1*	380/110		Commissioning
Amprion	Verlautenheide TR 412	D7VERL1*	380/110		Commissioning
Amprion	Olefin TR 211	D7OLEF2*	220/110		Commissioning
Amprion	Ensdorf TR 413	D7ENSD1*	380/110		Commissioning
Amprion	Buerstadt TR 211	D7BUER2*	220/110		Commissioning
Elia	Aubange PST 2	Aubange	220/220		Commissioning
Litgrid	-	Madlinavos	330/110		Commissioning
PSE	ROK-A1	ZROK34	400/110		Commissioning
PSE	ROK-T1	ZROK34	400/110		Decommissioning
PSE	ZZAM-A2	ZZAM24	220/110		Commissioning
PSE	TEL-A3	ZTEL52	220/110		Commissioning
TransnetBW	BmT202	Gurtweil	220/110	0	Decommissioning
TransnetBW	BmT212	Gurtweil	220/110	0	Commissioning
TransnetBW	BmT201	Beuren	220/110	0	Decommissioning
TransnetBW	BmT202	Beuren	220/110	0	Decommissioning
TransnetBW	BmT211	Beuren_C1	220/110	0	Commissioning
TenneT DE	T422	D2SOTT1*	380/220		Commissioning

Generation units

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/ Decommissioning
PSE	Rybnik B6	RYB 2-06	220	Thermal (coal)	Decommissioning

Appendix 7: Agreed forecast AC and DC exchanges for the Autumn peak scenario

Area Net Position

Code	TSO	AC+DC	AC	DC
AL	OST-ALBANIA	201.237	201.237	0
AT	APG	419.142	419.142	0
BA	NOSBIH	348.707	348.707	0
BE	ELIA	-1989.264	-1982.496	-6.768
BG	ESO	305.663	305.663	0
CAKOSTT	KOSOVA-TSMO	-389.069	-389.069	0
CH	SWISSGRID	2158.206	2158.206	0
CZ	CEPS	907.955	907.955	0
DE-50HERTZ	50HERTZ	4051.455	4391.372	-339.917
DE-AMPRION-SCHED	AMPRION	-4990.07	-4990.07	0
DE-TENNET_DE	TENNETG	-3839.853	-2565.157	-1274.696
DE-TRANSNETBW	TRANSNETBW	-4022.89	-4022.89	0
DK1	ENERGINET	201.97	2208.239	-2006.269
DK2	ENERGINET	-877.77	-884.805	7.035
EE	ELERING	-568.958	447.042	-1016
ES	REE	32.101	32.101	0
FI	FINGRID	1268.197	-524.354	1792.551
FR	RTE	15673.828	12200.216	3473.612
GB	NGET	-3080.224	0	-3080.224
GR	IPTO	607.338	347.338	260
HR	HOPS	-603.758	-603.758	0
HU	MAVIR	-1745.282	-1745.282	0
IT	TERNA	-8199.98	-7939.98	-260
LT	LITGRID	-805.658	-105.658	-700
LU	CREOS	-597.999	-597.999	0
LV	AST	-264.629	-264.629	0
ME	CGES	400.459	400.459	0

MK	MEPSO	-48.839	-48.839	0
MOLDOVA	MOLDELECTRICA	-669.278	-669.278	0
MOROCCO	REE	0	0	0
NL	TENNETNL	1635.711	1777.636	-141.925
NO	STATNETT	3246.366	-1042.732	4289.098
PL	PSE	-781.766	-253.993	-527.773
PT	REN	6.633	6.633	0
RO	TRANSELECTRICA	206.625	206.625	0
RS	EMS	184.371	184.371	0
SE	SVK	3422.254	2451.89	970.364
SEM	EIRGRID	-1439.09	0	-1439.09
SI	ELES	948.415	948.415	0
SK	SEPS	726.328	726.328	0
TEIAS_AREA	TEIAS	-139.495	-139.495	0
UA-IPS	UA_WPS	-1899.087	-1899.087	0

Note that sign of the Net Position is as follow: - import / + export

DC Interconnector Exchanges (in the indicated direction)

Cable_name	Circuit	From_TSO	To_TSO	Gross flow	DC	Net flow	DC
Alegro	ALEGRO DC	ELIA	DE_Amprion	0		0	
BalticCable	Herrenwyk-Kruseberg	DE_TenneT DE	Svenska kraftnat	-219.142		-215.375	
BritNed	Maasvlakte-Isle of Grain	NG ESO	TenneT NL	-86.994		-86.124	
COBRA	COBRACable	Energinet West	TenneT NL	67.375		65.253	
ElecLink	ElecLink	RTE	NG ESO	993.403		978.502	
Estlink	Espoo-Harku (Estlink)	Elering	FINGRID	-360.326		-341.949	
Estlink	Anttila-Pyssi (Estlink2)	Elering	FINGRID	-655.674		-641.249	
EWIC	Woodland-Deeside	Eirgrid/SONI	NG ESO	-515.054		-509.903	
FennoSkan	Dannebo-Rauma (Fenno-Skan 1)	Svenska kraftnat	FINGRID	0		0	
FennoSkan	Finnböle-Rauma (Fenno-Skan 2)	Svenska kraftnat	FINGRID	-776.551		-759	
GreenLink	GreenLink	Eirgrid/SONI	NG ESO	-471.147		-460.311	
Grita	Arachthos-Galatina	IPTO	TERNA	260		257.4	
IFA	Mandarins-Sellindge 1	RTE	NG ESO	743.403		734.482	
IFA	Mandarins-Sellindge 2	RTE	NG ESO	743.403		734.482	
IFA2	Tourbe-Daedulus	RTE	NG ESO	993.403		978.502	
Kontek	Bentwisch-Bjaeverskov	DE_50Hertz	Energinet East	-339.917		-334.128	
KontiSkan	Vester Hassing-Lindome 1	Svenska kraftnat	Energinet West	149.842		147.007	
KontiSkan	Vester Hassing-Lindome 2	Svenska kraftnat	Energinet West	150.158		147.007	
Moyle	Ballycronanmore-Auchencrosh	Eirgrid/SONI	NG ESO	-452.888		-448.359	
NEMO	nemo Link	NG ESO	ELIA	6.768		6.7	
NordBalt	Klaipeda-Nybro (Nordbalt)	Litgrid	Svenska kraftnat	-700		-669.356	
NordLink	NordLink cable pole1	Statnett	DE_TenneT DE	527.777		517.821	
NordLink	NordLink cable pole2	Statnett	DE_TenneT DE	527.777		517.821	

NorNed	NorNed Cable	TenneT NL	Statnett	-161.544	-156.535
North Sea Link	NSN Link 1	Statnett	NG ESO	700	683.937
North Sea Link	NSN Link 2	Statnett	NG ESO	700	683.937
Skagerrak	Tjele-Kristiansand 1	Energinet West	Statnett	-246.075	-232.579
Skagerrak	Tjele-Kristiansand 2	Energinet West	Statnett	-246.075	-232.579
Skagerrak	Tjele-Kristiansand 3	Energinet West	Statnett	-491.989	-478.08
Skagerrak	Tjele-Kristiansand 4	Energinet West	Statnett	-687.862	-671.896
StoreBælt	FRAUGDE-HERSLEV	Energinet West	Energinet East	332.882	328.118
SwePol	Slupsk-Karlshamn	PSE	Svenska kraftnat	-527.773	-509.144
Viking Link	Viking link cable pole 2	Energinet West	NG ESO	-217.263	-217.263
Viking Link	Viking link cable pole 1	Energinet West	NG ESO	-217.263	-217.263

Appendix 8: System changes for the Autumn peak scenario

Substations

TSO	Name of Station	U [kV/kV]	Commissioning / Decommissioning
50Hertz	Berlin Süd-Ost	220	Commissioning
50Hertz	Gnewitz	380	Commissioning
50Hertz	Gnewitz	220	Commissioning
APG	Pichling	220	Commissioning
ČEPS	Praha Sever	400	Commissioning
Elering	Uniküla	330	Commissioning
HOPS	Promina	400	Commissioning
NOSBiH	Stolac solar	220	Commissioning
TenneT DE	Lübeck/West	380	Commissioning

Lines

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
50Hertz	Wuhlheide-Berlin Süd-Ost 291	D8WUH_2*	D8BNS_2*	220	Commissioning
50Hertz	Wuhlheide- Thyrow 291	D8WUH_2*	D8THY_2*	220	Decommissioning
50Hertz	Berlin Süd-Ost- Thyrow 297	D8BNS_2*	D8THY_2*	220	Commissioning
50Hertz	Berlin Süd-Ost- Thyrow 298	D8BNS_2*	D8THY_2*	220	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
50Hertz	Marzahn- Wuhlheide 301	D8MZA_2*	D8WUH_2*	220	Commissioning
50Hertz	Marzahn- Wuhlheide-Berlin Süd-Ost 302	D8MZA_2*	D8BNS_2*	220	Commissioning
50Hertz	Marzahn- Wuhlheide- Thyrow 302	D8MZA_2*	D8THY_2*	220	Decommissioning
50Hertz	Gnewitz- Lüdershagen 317	D8GNW_2*	D8LHG_2*	220	Commissioning
50Hertz	Gnewitz- Lüdershagen 318	D8GNW_2*	D8LHG_2*	220	Commissioning
50Hertz	Bentwisch - Lüdershagen 318	D8BW__2*	D8LHG_2*	220	Decommissioning
50Hertz	Güstrow- Lüdershagen 317- 276	D8GUE_2*	D8LHG_2*	220	Decommissioning
50Hertz	Güstrow- Bentwisch 276	D8GUE_2*	D8BW__2*	220	Commissioning
50Hertz	Gnewitz- Bentwisch 607	D8GNW_1*	D8BW__1*	380	Commissioning
50Hertz	Gnewitz- Bentwisch 608	D8GNW_1*	D8BW__1*	380	Commissioning
50Hertz	Mitte- Charlottenburg 917	D8MIT_1*	D8CH__1*	380	Commissioning
50Hertz	Charlottenburg- Reuter 904	D8CH__1*	D8REU_1*	380	Decommissioning
Amprion	Muenster Ost	D7AMEL2*	D7MUES2*	220	Decommissioning
Amprion	Wiehengebirge Ost	D7WEHR2*	D7WEST2*	220	Decommissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
Amprion	Eller Ost	D7ELLE2*	D7OPLA2*	220	Decommissioning
Amprion	Itterbach West	D7EIBE2*	D7PETE2*	220	Decommissioning
Amprion	Weinstraße Ost	D7LAMB1*	D7MAXA1*	380	Decommissioning
Amprion	Prov. Eller-Eiberg	D7ELLE2*	D7EIBE2*	220	Commissioning
Amprion	Weinstraße West	D7LAMB1*	D7MAXA1*	380	Commissioning
Amprion	Weinstraße Ost	D7WEIN1*	D7LAMB1*	380	Commissioning
Amprion	Rehbach Ost	D7WEIN1*	D7MAXA1*	380	Commissioning
APG	Ernstshofen - Hütte Süd 291/292	OERNST2*	OHUETS2*	220	Decommissioning
APG	Ernstshofen - Pichling 291	OERNST2*	OPICHL2*	220	Commissioning
APG	Ernstshofen - Pichling 292	OERNST2*	OPICHL2*	220	Commissioning
APG	Pichling - Hütte Süd 293A	OPICHL2*	OHULIS2*	220	Commissioning
APG	Pichling - Hütte Süd 294A	OPICHL2*	OHULIS2*	220	Commissioning
ČEPS	V419	Výškov	Čechy Střed	400	Decommissioning
ČEPS	V419	Výškov	Praha Sever	400	Commissioning
ČEPS	V409	Čechy Střed	Praha Sever	400	Commissioning
Elering	Tartu-Uniküla	Tartu	Uniküla	330	Commissioning
HOPS	Konjsko - Velebit	Konjsko	Velebit	400	Decommissioning
HOPS	Konjsko - Promina	Konjsko	Promina	400	Commissioning
HOPS	Promina - Velebit	Promina	Velebit	400	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
NOSBiH	Stolac - Stolac solar	Stolac	Stolac solar	220	Commissioning
NOSBiH	Stolac solar - Trebinje	Stolac solar	Trebinje	220	Commissioning
Swissgrid	Breite - Schlattingen	Breite	Schlattingen	220	Decommissioning
TransnetBW	Metzingen-Y-Herbertingen black (Herbertingen-West)	Metzingen	Y-Herbertingen	380	Decommissioning
TransnetBW	Metzingen-Herbertingen	Metzingen	Herbertingen	380	Commissioning
TransnetBW	Bünzwangen-Laichingen green	Bünzwangen	Laichingen	380	Decommissioning
TransnetBW	Oberjettingen-Pulverdingen white	Oberjettingen	Pulverdingen	380	Decommissioning
TransnetBW	Oberjettingen_C1-Pulverdingen white	Oberjettingen_C1	Pulverdingen	380	Commissioning
TransnetBW	Daxlanden-Oberwald	Daxlanden	Oberwald	220	Commissioning
TenneT DE	Ulzburg - Lübeck/West rot	D2ULBG1*	D2LBEW1*	380	Commissioning
TenneT DE	Ulzburg - Lübeck/West gelb	D2ULBG1*	D2LBEW1*	380	Commissioning
TenneT DE	Ottenhofen - Isar - Pleinting 444/452	D2OH 1*	D2YIS 1*	380	Decommissioning
TenneT DE	Ottenhofen - Isar - Pleinting 444/452	D2IS 1*	D2YIS 1*	380	Decommissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
TenneT DE	Ottenhofen - Isar - Pleinting 444/452	D2PT 1*	D2YIS 1*	380	Decommissioning
TenneT DE	Isar - Pleinting 452	D2IS 1*	D2PT 1*	380	Commissioning
TenneT DE	Isar - Ottenhofen 444	D2OH 1*	D2IS 1*	380	Commissioning
TenneT DE	Isar - Ottenhofen 443	D2OH 1*	D2IS 1*	380	Decommissioning
TenneT DE	Ottenhofen - Pleinting 446/451	D2OH 1*	D2IS 1*	380	Decommissioning
TenneT DE	Altheim - Sankt Peter/APG 233	D2AHM 2*	XPE_AH21	220	Decommissioning
TenneT DE	Altheim - Sankt Peter/APG 234/230	D2AHM 2*	XPE_SI21	220	Decommissioning
TenneT DE	Simbach - Sankt Peter/APG 482	D2SI 1*	XPE_OH11	380	Decommissioning
TenneT DE	Simbach - Isar - Pleinting 449/451	D2SI 1*	D2YIS 1*	380	Commissioning
TenneT DE	Simbach - Isar - Pleinting 449/451	D2IS 1*	D2YIS 1*	380	Commissioning
TenneT DE	Simbach - Isar - Pleinting 449/451	D2PT 1*	D2YIS 1*	380	Commissioning
TenneT DE	Altheim - Isar 447	D2AHM 1*	D2IS 1*	380	Commissioning
TenneT DE	Ottenhofen - Sankt Peter/APG 482	D2OH 1*	XPE_OH11	380	Commissioning
TenneT DE	Ottenhofen - Altheim 443	D2OH 1*	D2AHM 1*	380	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
TenneT DE	Bergrheinfeld W- Grafenrheinfeld 486	D2GR 1	D2BRFW1	380	Commissioning

Interconnections

X-node	TSO	To-Node	U [kV]	Commissioning/ Decommissioning
XDO_NR11	Amprion	D7NRHE1*	380	Commissioning
XDO_NR11	TenneT DE	D2DOEW1*	380	Commissioning
XDO_NR12	TenneT DE	D2DOEW1*	380	Commissioning
XDO_NR12	Amprion	D7NRHE1*	380	Commissioning
XHR_HR12	TransnetBW	Herbertingen	380	Decommissioning
XHR_HR12	Amprion	Herbertingen	380	Decommissioning
XME_HO11	TransnetBW	Metzingen	380	Decommissioning
XME_HO11	Amprion	Herbertingen	380	Decommissioning
XPE_AH21	TenneT DE	D2AHM 2*	220	Decommissioning
XPE_AH21	APG	OPETER2*	220	Decommissioning
XPE_OH11	TenneT DE	D2SI 1*	380	Decommissioning
XPE_OH11	TenneT DE	D2OH 1*	380	Commissioning
XPE_SI21	TenneT DE	D2AHM 2*	220	Decommissioning
XPE_SI21	APG	OPETER2*	220	Decommissioning

Transformers and PSTs

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
50Hertz	Tr 202	Berlin Süd- Ost	220/110	0	Commissioning
50Hertz	Tr 203	Berlin Süd- Ost	220/111	0	Commissioning
50Hertz	Tr 403	Gnewitz	380/220	0	Commissioning
50Hertz	Tr 404	Gnewitz	380/220	0	Commissioning
50Hertz	Tr 405	Gnewitz	380/220	0	Commissioning

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
50Hertz	Tr 406	Gnewitz	380/220	0	Commissioning
ČEPS	T401	Praha Sever	400/110		Commissioning
ČEPS	T402	Praha Sever	400/110		Commissioning
Elering	-	Uniküla	330/110		Commissioning
TenneT DE	T411	D2LBEW1*	380/110		Commissioning
TenneT DE	T412	D2LBEW1*	380/110		Commissioning
TenneT DE	T426	D2OH 1*	380/220		Decommissioning
TenneT DE	T425	D2OH 1*	380/220		Commissioning

Generation units

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/ Decommissioning
Fingrid	Rajamäenkylä	Rajamäenkylä	400	Wind	Commissioning
HOPS	Promina	Promina	400	Solar	Commissioning
NOSBiH	Stolac solar	Stolac solar	220	Solar	Commissioning

Appendix 9: Agreed forecast AC and DC exchanges for the Winter II peak scenario

Area Net Position

Code	TSO	AC+DC	AC	DC
AL	OST-ALBANIA	357.234	357.234	0
AT	APG	1384.461	1384.461	0
BA	NOSBIH	449.984	449.984	0
BE	ELIA	-1537.217	-1479.029	-58.188
BG	ESO	-766.884	-766.884	0
CAKOSTT	KOSOVA-TSMO	-674.556	-674.556	0
CH	SWISSGRID	-295.011	-295.011	0
CZ	CEPS	1056.521	1056.521	0
DE-50HERTZ	50HERTZ	6996.988	7032.777	-35.789
DE-AMPRION-SCHED	AMPRION	-4782.121	-4782.121	0
DE-TENNET_DE	TENNETG	-4001.423	-2514.865	-1486.558
DE-TRANSNETBW	TRANSNETBW	-3927.269	-3927.269	0
DK1	ENERGINET	-1768.19	1287.349	-3055.539
DK2	ENERGINET	-1474.983	-1350	-124.983
EE	ELERING	-442.321	573.679	-1016
ES	REE	187.73	187.73	0
FI	FINGRID	-1054.013	-870.239	-183.774
FR	RTE	16431.747	13158.599	3273.148
GB	NGET	-1717.193	0	-1717.193
GR	IPTO	442.914	292.914	150
HR	HOPS	-742.889	-742.889	0
HU	MAVIR	-2272.407	-2272.407	0
IT	TERNA	-7895.419	-7745.419	-150
LT	LITGRID	-1060.964	-360.964	-700
LU	CREOS	-591.995	-591.995	0
LV	AST	-204.836	-204.836	0
ME	CGES	352.685	352.685	0

MK	MEPSO	-293.209	-293.209	0
MOLDOVA	MOLDELECTRICA	-575.777	-575.777	0
MOROCCO	REE	0	0	0
NL	TENNETNL	2004.028	2349.132	-345.104
NO	STATNETT	6834.122	2115.162	4718.96
PL	PSE	-293.366	306.634	-600
PT	REN	38.789	38.789	0
RO	TRANSELECTRICA	-461.258	-461.258	0
RS	EMS	178.561	178.561	0
SE	SVK	2867.594	105.076	2762.518
SEM	EIRGRID	-1431.497	0	-1431.497
SI	ELES	523.247	523.247	0
SK	SEPS	642.46	642.46	0
TEIAS_AREA	TEIAS	10.394	10.394	0
UA-IPS	UA_WPS	-2494.662	-2494.662	0

Note: that sign of the Net Position is as follow: - import / + export

DC Interconnector Exchanges (in the indicated direction)

Cable_name	Circuit	From_TSO	To_TSO	Gross flow	DC	Net flow	DC
Alegro	ALEGRO DC	ELIA	DE_Amprion	0		0	
BalticCable	Herrenwyk-Kruseberg	DE_TenneT DE	Svenska kraftnat	-86.558		-84.175	
BritNed	Maasvlakte-Isle of Grain	NG ESO	TenneT NL	-6.771		-6.703	
COBRA	COBRACable	Energinet West	TenneT NL	-268.125		-263.095	
ElecLink	ElecLink	RTE	NG ESO	943.287		929.138	
Estlink	Espoo-Harku (Estlink)	Elering	FINGRID	-360.326		-341.949	
Estlink	Anttila-Pyssi (Estlink2)	Elering	FINGRID	-655.674		-641.249	
EWIC	Woodland-Deeside	Eirgrid/SONI	NG ESO	-500.706		-495.699	
FennoSkan	Dannebo-Rauma (Fenno-Skan 1)	Svenska kraftnat	FINGRID	400.25		389.844	
FennoSkan	Finnböle-Rauma (Fenno-Skan 2)	Svenska kraftnat	FINGRID	799.524		779.536	
GreenLink	GreenLink	Eirgrid/SONI	NG ESO	-450.244		-439.888	
Grita	Arachthos-Galatina	IPTO	TERNA	150		148.5	
IFA	Mandarins-Sellindge 1	RTE	NG ESO	693.287		684.968	
IFA	Mandarins-Sellindge 2	RTE	NG ESO	693.287		684.968	
IFA2	Tourbe-Daedulus	RTE	NG ESO	943.287		929.138	
Kontek	Bentwisch-Bjaeverskov	DE_50Hertz	Energinet East	-35.789		-33.7	
KontiSkan	Vester Hassing-Lindome 1	Svenska kraftnat	Energinet West	88.011		86.211	
KontiSkan	Vester Hassing-Lindome 2	Svenska kraftnat	Energinet West	88.175		86.211	
Moyle	Ballycronanmore-Auchencrosh	Eirgrid/SONI	NG ESO	-480.547		-475.742	
NEMO	nemo Link	NG ESO	ELIA	58.188		57.606	
NordBalt	Klaipeda-Nybro (Nordbalt)	Litgrid	Svenska kraftnat	-700		-669.356	
NordLink	NordLink cable pole1	Statnett	DE_TenneT DE	700		685.193	
NordLink	NordLink cable pole2	Statnett	DE_TenneT DE	700		685.193	

NorNed	NorNed Cable	TenneT NL	Statnett	-620	-600.775
North Sea Link	NSN Link 1	Statnett	NG ESO	513.48	503.085
North Sea Link	NSN Link 2	Statnett	NG ESO	513.48	503.085
Skagerrak	Tjele-Kristiansand 1	Energinet West	Statnett	-246.075	-232.579
Skagerrak	Tjele-Kristiansand 2	Energinet West	Statnett	-246.075	-232.579
Skagerrak	Tjele-Kristiansand 3	Energinet West	Statnett	-491.989	-478.08
Skagerrak	Tjele-Kristiansand 4	Energinet West	Statnett	-687.862	-671.896
StoreBælt	FRAUGDE-HERSLEV	Energinet West	Energinet East	160.772	158.088
SwePol	Slupsk-Karlshamn	PSE	Svenska kraftnat	-600	-576.56
Viking Link	Viking link cable pole 2	Energinet West	NG ESO	-550	-550
Viking Link	Viking link cable pole 1	Energinet West	NG ESO	-550	-550

Appendix 10: System changes for the Winter II peak scenario

Substations

TSO	Name of Station	U [kV/kV]	Commissioning / Decommissioning
50Hertz	Wustermark/Ost	380	Commissioning
APG	Leoben	220	Commissioning
Fingrid	Halsua	400	Commissioning
Fingrid	Kukonkylä	400	Commissioning
Fingrid	Herva	400	Commissioning
Fingrid	Ullava	400	Commissioning
MAVIR	Törökfái	400	Commissioning

Lines

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
50Hertz	Neuenhagen-Heinersdorf 443	D8NHG_1*	D8HND_1*	380	Commissioning
50Hertz	Neuenhagen-Eisenhüttenstadt-Preilack 547	D8NHG_1*	D8PRL_1*	380	Decommissioning
50Hertz	Heinersdorf-Eisenhüttenstadt-Preilack 547	D8HND_1*	D8PRL_1*	380	Commissioning
50Hertz	Wustermark – Wustermark/Ost 947	D8WU__1*	D8WUO_1*	380	Commissioning
50Hertz	Wustermark – Wustermark/Ost 948	D8WU__1*	D8WUO_1*	380	Commissioning
Amprion	Fichtenhain Ost	D7DUEL2*	D7YEDE2*	220	Decommissioning
Amprion	Osterath West	D7OSTR1*	D7EDEL1*	380	Commissioning
APG	Leoben - Hessenberg 289	OLEOB 2*	OHESSE2*	220	Commissioning
APG	Leoben - Hessenberg 290	OLEOB 2*	OHESSE2*	220	Commissioning
Fingrid	Jylkkä-Kukonkylä 400 Läntinen	Jylkkä	Kukonkylä	400	Commissioning
Fingrid	Jylkkä-Kukonkylä 400 Itäinen	Jylkkä	Kukonkylä	400	Commissioning
Fingrid	Kukonkylä-Ullava 400 Läntinen	Kukonkylä	Ullava	400	Commissioning
Fingrid	Kukonkylä-Ullava 400 Itäinen	Kukonkylä	Ullava	400	Commissioning
Fingrid	Ullava-Halsua	Ullava	Halsua	400	Commissioning
Fingrid	Herva-(Vuotto)-Nuojuankangas	Herva	Nuojuankangas	400	Commissioning

TSO	Name	From (Name of the Station)	To (Name of the Station)	U [kV]	Commissioning / Decommissioning
MAVIR	Albertirsa-Szolnok	Albertirsa	Szolnok	400	Decommissioning
MAVIR	Albertirsa-Törökfái	Albertirsa	Törökfái	400	Comissioning
MAVIR	Szolnok-Törökfái	Szolnok	Törökfái	400	Comissioning
PSE	N005	ZJAS54	ZGRU54	400	Commissioning
PSE	6004	ZJAS52	ZGRU52	220	Decommissioning
PSE	E209	ZOST14	ZWYS14	400	Commissioning
PSE	E208	ZWYS14	ZSTN14	400	Commissioning
PSE	1003	ZOST12	ZWYS12	220	Decommissioning
PSE	1002	ZWYS12	ZSTN12	200	Decommissioning
TenneT DE	Lübeck/West - Siems weiss	D2LBEW1*	D2SIEMS1*	380	Commissioning

Interconnections

No changes for interconnections planned for Winter 2 2027.

Transformers and PSTs

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
50Hertz	Tr 411	Heinersdorf	380/110	0	Commissioning
50Hertz	Tr 412	Heinersdorf	380/110	0	Commissioning
Fingrid	LI_ACT3	Lieto	400/110		Commissioning
Fingrid	HV_ACT1	Herva	400/110		Commissioning
MAVIR	Törökfái transformer No. I.	MTORF 1*	400/132/ 18		Commissioning

TSO	Name	Name of the Station	U [kV/kV]	Max angle	Commissioning / Decommissioning
MAVIR	Törökfai transformer No. II.	MTORF 1*	400/132/18		Commissioning
PSE	WYS-A2	ZWYS14	400/110		Commissioning
PSE	WYS-A1	ZWYS12	22/110		Decommissioning
TenneT DE	T413	D2HELO1*	380/110		Commissioning

Generation units

No changes for generation units planned for Winter 2 2027.