
All TSOs' scenario definition and scenario description for the year 2020 (in accordance with Article 65 of the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation).

Date 11 July 2019

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Legal basis

- (1) This document is a scenario definition for year 2020 and scenario description of All Transmission System Operators (hereafter referred to as “TSOs”).
- (2) Article 65 of Commission Regulation (EU) 2017/1485 constitutes the legal basis for the scenario description.
- (3) Article 19 of of Commission Regulation (EU) 2016/1719 constitutes the legal basis for the common scenarios to be used for each long-term capacity calculation time frame.

1. Common list of 2020 year scenarios

All TSO's agreed on the following reference timestamp to create scenarios for 2020:

- Winter Peak, based on the 3rd Wednesday of January year 2019, 10:30 CET;
- Spring Peak, based on the 3rd Wednesday of April year 2019 10:30 CET;
- Summer Peak, based on the 3rd Wednesday of July year 2018, 10:30 CET;
- Autumn Peak, based on the 3rd Wednesday of October year 2018, 10:30 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 scenario period are included in the scenarios.

2. Winter 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 1 January 2020 to 31 March 2020. The reference timestamp to represent this scenario is 3rd Wednesday at 10:30 in January 2019 (16 January 2019). It is the most probable representation of winter peak scenario.

TSOs have agreed that 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 spreadsheets 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 behavior from 1 January 2020 to 31 March 2020 and consecutive scenarios. The changes identified will be at a level of substation, branch, generation or other significant plant level which is likely to influence system loading or cross border flows. These changes will be listed in the scenario outline spreadsheets for each synchronous area presented in Appendix 2.

Any major system outage(s), which will last for the entire considered 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 constellations,
- etc.

3. 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 1 April 2020 to 30 June 2020. The reference

timestamp to represent this scenario is 3rd Wednesday at 10:30 in April 2019 (17 April 2019). It is the most probable representation of spring peak scenario.

TSOs have agreed that 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 spreadsheets 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 behavior from 1 April 2020 to 30 June 2020 and consecutive scenarios. The changes identified will be at a level of substation, branch, generation or other significant plant level which is likely to influence system loading or cross border flows. These changes will be listed in the scenario outline spreadsheets for each synchronous area presented in Appendix 4.

Any major system outage(s), which will last for the entire considered 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 constellations,
- etc.

4. 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 1 July 2020 to 30 September 2020. The reference timestamp to represent this scenario is 3rd Wednesday at 10:30 in July 2018 (18 July 2018). It is the most probable representation of the summer peak scenario.

TSOs have agreed that 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 spreadsheets 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 behavior from 1 July 2020 to 30 September 2020 and consecutive scenarios. The changes identified will be at a level of substation, branch, generation or other significant plant level which is likely to influence system loading or cross border flows. These changes will be listed in the scenario outline spreadsheets for each synchronous area presented in Appendix 6.

Any major system outage(s), which will last for the entire considered 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 constellations,
- etc.

5. 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 1 October 2020 to 31 December 2020. The reference timestamp to represent this scenario is 3rd Wednesday at 10:30 in October 2018 (17 October 2018). It is the most probable representation of autumn peak scenario.

TSOs have agreed that 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 spreadsheets 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 behavior from 1 October 2020 to 31 December 2020 and consecutive scenarios. The changes identified will be at a level of substation, branch, generation or other significant plant level which is likely to influence system loading or cross border flows. These changes will be listed in the scenario outline spreadsheets for each synchronous area presented in Appendix 8.

Any major system outage(s), which will last for the entire considered 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 constellations,
- etc.

6. Language

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

Appendix 1: Agreed net positions and DC link flows for the winter peak scenario

RG CE

	to	DKw	DKe	GB	SE	NO	LT	Net Positions
from	AL							-270
	AT							147
	BA							286
	BE			1000				804
	BG							750
	CH							834
	RS							-477
	ME							43
	CZ							1141
	DE		600		0			10047
	DKw		599		727	1025		2954
	MA							0
	ES							-1694
	FR			-471				-1647
	GR							-730
	HR							-836
	HU							-1884
	IT							-3702
	KS							0
	LU							-608
	MK							-289
	NL	-700		1000		-700		-1129
	PL				0		0	-104
	PT							260
	RO							-100
	SI							327
	SK							-643
	UA							450
	TR							-150
	IR			-200				-200

Note: 1. that sign of the Net Position is as follow: - import / + export.

2. Terna import is affected by the fault on the line 380kV Pradella – Sils – Robbia (CH) which occurred at the end of October 2018

RG Baltic

	to	PL	SE	FI	Net Positions
from	EE			-227	82
	LV				13
	LT	0	-731		-1674

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

RG Nordic

	to	DKw	DE	EE	LT	NL	PL	RU	Net Positions
from	DKe	-599	-600						1872
	FI			227				-682	-2795
	NO	-1025				700		-32	1431
	SE	-727	0		731		0		-1579

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

Appendix 2: System changes for the winter peak scenario

Substations

TSO	Name of Station	Name (code)	U [kV/kV]	Commissioning/Decommissioning
TTN	Rilland	RLL	380	Commissioning
National Grid ESO	Bicker Fenn	BICF4	400	Commissioning
PSE	Reclaw	ZREC	220	Commissioning
PSE	Pelplin	ZPLP	220	Decommissioning
PSE	Pelplin	ZPLP	400	Commissioning
PSE	Praga	ZPRG	220/110	Commissioning
PSE	Jasiniec	ZJAS	400	Commissioning

Lines

TSO	Name	From	To	U [kV]	Commissioning/Decommissioning
TTN-Elia	Rilland - Zandvliet G (Elia)	Rilland	Zandvliet (Elia)	380	Restructuring line Borssele - Zandvliet
TTN- Elia	Rilland - Zandvliet W (Elia)	Rilland	Zandvliet (Elia)	380	Restructuring line Geertruidenberg - Zandvliet
TTN- Elia	Rilland - Borssele G	Rilland	Borssele	380	Restructuring line Borssele - Zandvliet
TTN- Elia	Rilland - Geertruidenberg W	Rilland	Geertruidenberg	380	Restructuring line Geertruidenberg - Zandvliet
RTE- National Grid	ELECLink	Mandarins (RTE)	Sellindge B (National Grid)	400	Commissioning
PSE	4531	Morzyczyn	Reclaw	220	Commissioning
PSE	4532	Glinki	Reclaw	220	Commissioning
PSE	6005	Jasiniec	Pelplin	220	Decommissioning
PSE	6401	Gdańsk	Pelplin	220	Decommissioning
PSE	N007	Grudziądz	Pelplin	400	Commissioning
PSE	N008	Grudziądz	Pelplin	400	Commissioning
PSE	N407	Gdańsk Przyjaźń	Pelplin	400	Commissioning
PSE	N408	Gdańsk Przyjaźń	Pelplin	400	Commissioning
PSE	1012	Ołtarzew	Mory	220	Decommissioning
PSE	1014	Ołtarzew	Warszawa Towarowa	220	Commissioning
PSE	H008	Ostrów	Kromolice	400	Commissioning
PSE	N005	Jasiniec	Grudziądz	400	Commissioning

Transformers and PSTs

TSO	Name	From	To	U [kV/kV]	Commissioning/Decommissioning
Elia	PST Monceau	Chooz (FR)	Monceau (BE)	220/150	Commissioning
TTG	T411	Schwandorf	Schwandorf	380/110	Commissioning
PSE	REC-A1	Reclaw	Reclaw	220/110	Commissioning
PSE	REC-A2	Reclaw	Reclaw	220/110	Commissioning
PSE	PLP-A2	Pelplin	Pelplin	220/110	Decommissioning

TSO	Name	From	To	U [kV/kV]	Commissioning/Decommissioning
PSE	PLP-A4	Pelplin	Pelplin	400/110	Commissioning
PSE	PRG-A1	Praga	Praga	220/110	Commissioning
PSE	PRG-A2	Praga	Praga	220/110	Commissioning
PSE	JAS-A2	Jasiniec	Jasiniec	220/110	Decommissioning
PSE	JAS-A3	Jasiniec	Jasiniec	400/110	Commissioning
APG	RHU43	Tauern	Tauern	380/220	Commissioning

Generation units:

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/Decommissioning
PSE	Stalowa Wola gen.7	Stalowa Wola	220	Thermal (coal)	Decommissioning
PSE	Stalowa Wola gen.8	Stalowa Wola	220	Thermal (coal)	Decommissioning
PSE	Rybnik gen.1	Wielopole	110	Thermal (coal)	Decommissioning
PSE	Rybnik gen.2	Wielopole	110	Thermal (coal)	Decommissioning
PSE	Żerań	Praga	220	Thermal (gas)	Commissioning
Fingrid	Olkiluoto 3	Olkiluoto B	400	Nuclear	Commissioning

Appendix 3: Agreed net positions and DC link flows for the spring peak scenario

RG CE

	to	DKw	DKe	GB	SE	NO	LT	Net Positions
from	AL							-524
	AT							-651
	BA							164
	BE			1000				-565
	BG							600
	CH							1156
	RS							257
	ME							-256
	CZ							2408
	DE		0		462			8200
	DKw		600		48	0		1079
	MA							0
	ES							-1767
	FR			1000				4690
	GR							-1096
	HR							-791
	HU							-2621
	IT							-4841
	KS							0
	LU							-552
	MK							-251
	NL	-700		1000		-700		-1347
	PL				0		0	-400
	PT							-533
	RO							500
	SI							-20
	SK							159
	UA							413
	TR							0
	IR			150				150

Note: 1. that sign of the Net Position is as follow: - import / + export.

2. Terna import is affected by the fault on the line 380kV Pradella – Sils – Robbia (CH) which occurred at the end of October 2018

RG Baltic

	to	PL	SE	FI	Net Positions
from	EE			-357	-258
	LV				146
	LT	0	-732		-1015

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

RG Nordic

	to	DKw	DE	EE	LT	NL	PL	RU	Net Positions
from	DKe	-600	270						1013
	FI			357				-300	-2413
	NO	0				700		0	2933
	SE	-48	-462		732		0		602

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

Appendix 4: System changes for the spring peak scenario

Substations

TSO	Name of Station	Name (code)	U [kV/kV]	Commissioning/Decommissioning
Elia	Lillo	LILLO	380	Commissioning
TTG	Wilster West	WILW	380	Commissioning
TTG	Fedderwarden	FEDD	220	Commissioning
TTG	Wilster West	WILW	380	Commissioning
SVK	Stenkullen	FT11	400	Commissioning
SVK	Järva	ÅT58	200	Commissioning

Lines

TSO	Name	From	To	U [kV]	Commissioning/Decommissioning
Amprion	TBD	Niederstedem (Amprion)	Blooren (Creos)	220	Commissioning
Amprion	Blooren-Trier S	Trier (Amprion)	Blooren (Creos)	220	Decommissioning
Amprion	TBD	Ensdorf	Dieffeln	220	Commissioning
Amprion	Ensdorf Nord	Point Fraulautern	Ensdorf	220	Decommissioning
Amprion	Saar Nord	Trier	Dieffeln	220	Decommissioning
Amprion	Niederstedem West	Niederstedem	Trier	220	Decommissioning
Elia	380.51	Doel	Mercator	380	Commissioning third connection to Lillo
Elia	380.52	Doel	Mercator	380	Commissioning third connection to Lillo
Elia	380.80	Avelgem	Avelin (RTE)	380	Capacity upgrade
TTG	blau	Conneforde	Maade	220	Decommissioning
TTG	rot	Conneforde	Maade	220	Decommissioning
TTG	blau	Conneforde	Fedderwarden	220	Commissioning
TTG	rot	Conneforde	Fedderwarden	220	Commissioning
TTG	blau	Maade	Fedderwarden	220	Commissioning
TTG	rot	Maade	Fedderwarden	220	Commissioning
PSE	H014	Kromolice	Pątnów	400	Commissioning

Transformers and PSTs

TSO	Name	From	To	U [kV/kV]	Commissioning/Decommissioning
Amprion	TR211	Trier	Trier	220/110	Decommissioning
SVK	Nysäter	Nysäter	400	Wind	Commissioning

Generation units:

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/Decommissioning
PSE	Turów gen.11	Mikułowa	400	Thermal (coal)	Commissioning
HOPS	VE Senj	Brinje	220	Wind	Commissioning

Appendix 5: Agreed net positions and DC link flows for the summer peak scenario

RG CE

	to	DKw	DKe	GB	SE	NO	LT	Net Positions
from	AL							-300
	AT							-2306
	BA							814
	BE			1000				-1121
	BG							229
	CH							2645
	RS							294
	ME							110
	CZ							2213
	DE		-602		0			8822
	DKw		0		0	0		-760
	MA							0
	ES							-4044
	FR			0				4506
	GR							-859
	HR							-1173
	HU							-1898
	IT							-5792
	KS							0
	LU							-560
	MK							-245
	NL	-700		1000		-700		-2247
	PL				0		0	-400
	PT							1244
	RO							700
	SI							50
	SK							-160
	UA							565
	TR							371
	IR			-50				-50

Note: 1. that sign of the Net Position is as follow: - import / + export.

2. Terna import is affected by the fault on the line 380kV Pradella – Sils – Robbia (CH) which occurred at the end of October 2018

RG Baltic

	to	PL	SE	FI	Net Positions
from	EE			26	352
	LV				-47
	LT	0	-707		-1305

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

RG Nordic

	to	DKw	DE	EE	LT	NL	PL	RU	Net Positions
from	DKe	0	602						783
	FI			-26				-469	-2991
	NO	0				700		0	2677
	SE	0	0		707		0		1045

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

Appendix 6: System changes for the summer peak scenario

Substations

TSO	Name of Station	Name (code)	U [kV/kV]	Commissioning/Decommissioning
TTG	Goetzdorf	GOEZ	220	Decommissioning
TTG	Stade West	STAW	220	Commissioning
TTG	Stade West	STAW	380	Commissioning
TTG	Schuby West	SHUW	380	Commissioning
PSE	Wyszków	ZWYS	220	Commissioning
PSE	Żydowo	ZZYD	220	Decommissioning
SVK	Hedenlunda	CT35	400	Commissioning
SVK	Trolltjärn	-	400	Commissioning

Lines

TSO	Name	From	To	U [kV]	Commissioning/Decommissioning
ELIA	380.66	Lillo	Zandvliet	380	Commissioning
National Grid	TOTT2-SJOW2-1	Tottenham	St John's Wood	275	De-Commissioning
National Grid	TOTT2-SJOW2-2	Tottenham	St John's Wood	275	De-Commissioning
TTG	gruen	Dollern	Sottrum/Goetzdorf	220	Decommissioning
TTG	blau	Dollern	Goetzdorf	220	Decommissioning
TTG	rot	Dollern	Wilster	380	Decommissioning
TTG	gelb	Dollern	Wilster	380	Decommissioning
TTG	rot	Dollern	Stade West	380	Commissioning
TTG	gelb	Dollern	Stade West	380	Commissioning
TTG	rot	Wilster	Stade West	380	Commissioning
TTG	gelb	Wilster	Stade West	380	Commissioning
PSE	218	Piła Krzewina	Żydowo	220	Decommissioning
PSE	219	Piła Krzewina	Żydowo Kierzkowo	220	Commissioning
PSE	6601	Dunowo	Żydowo	220	Decommissioning
PSE	6007	Dunowo	Żydowo Kierzkowo	220	Commissioning
PSE	6301	Żydowo	Żydowo Kierzkowo	220	Decommissioning
PSE	1004	Miłosna	Ostrołęka	220	Decommissioning
PSE	1202	Miłosna	Wyszków	220	Commissioning
PSE	1203	Wyszków	Ostrołęka	220	Commissioning
SVK	-	Kristinelund	Görlöse	400	Commissioning
SVK	-	Kristinelund	Hovegaard	400	Commissioning
SVK	CL26 S1	Strofinnforsen	Midskog	400	Commissioning
TTN	GT-BSL380 Z	Geertruidenberg	Borssele	380	Decommissioning
TTN	GT-RLL380 Z	Geertruidenberg	Rilland	380	Commissioning
TTN	BSL-RLL 380 Z	Borssele	Rilland	380	Commissioning

Transformers and PSTs

TSO	Name	From	To	U [kV/kV]	Commissioning/Decommissioning
Amprion	TR214	Urberach	Urberach	220/110	Decommissioning
Amprion	TR211	Urberach	Urberach	220/110	Decommissioning
Amprion	TR412	Urberach	Urberach	380/110	Commissioning
Amprion	TR413	Urberach	Urberach	380/110	Commissioning
TTG	T421	Dollern	Dollern	380/220	Decommissioning
TTG	T422	Dollern	Dollern	380/220	Decommissioning
TTG	T421	Stade West	Dollern	380/220	Commissioning
TTG	T422	Stade West	Dollern	380/220	Commissioning
TTG	T412	Schwandorf	SD	380/110	Commissioning
PSE	ZYD-A1	Żydowo	Żydowo	220/110	Decommissioning
PSE	ZYD-A2	Żydowo	Żydowo	220/110	Decommissioning

Appendix 7: Agreed net positions and DC link flows for the autumn peak scenario

RG CE

	to	DKw	DKe	GB	SE	NO	LT	Net Positions
from	AL							-453
	AT							-2428
	BA							296
	BE			1000				-2729
	BG							554
	CH							-598
	RS							-156
	ME							81
	CZ							2529
	DE		497		-346			6326
	DKw		0		0	0		1413
	MA							0
	ES							1731
	FR			2000				6542
	GR							14
	HR							-1160
	HU							-1878
	IT							-7048
	KS							0
	LU							-594
	MK							-257
	NL	-700		1000		-700		62
	PL				0		0	-101
	PT							-181
	RO							750
	SI							160
	SK							-508
	UA							650
	TR							434
	IR			150				150

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

RG Baltic

	to	PL	SE	FI	Net Positions
from	EE			-575	94
	LV				202
	LT	0	0		-1577

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

RG Nordic

	to	DKw	DE	EE	LT	NL	PL	RU	Net Positions
from	DKe	0	-497						247
	FI			575				-371	-2497
	NO	0				700		0	2475
	SE	0	346		0		0		1022

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

Appendix 8: System changes for the autumn peak scenario

Substations

TSO	Name of Station	Name (code)	U [kV/kV]	Commissioning/Decommissioning
SEPS	Bystricany	QBYST_1	400	Commissioning
ČEPS	Vítkov	VIT	400	Commissioning
National Grid	Blyth	BLYTH4	400	Commissioning
TTG	Conneforde (Reconstruction)	CONN	380	Commissioning
TTG	Fedderwarden	FEDD	380	Commissioning
TTG	Lamspringe	LAMS	380	Commissioning
TTG	Hardeggen	HARD	380	Commissioning
TTG	Hardeggen	HARD	220	Decommissioning
TTG	Godenau	GODE	220	Decommissioning
TTG	Handewitt	HAND	380	Commissioning

Lines

TSO	Name	From	To	U [kV]	Commissioning/Decommissioning
SEPS	V483	Krizovany	Bystricany	400	Commissioning
ELIA	380.65	Lillo	Zandvliet	380	Commissioning
ELIA	380.101	Avelgem	Horta	380	Capacity upgrade
ČEPS	V490	Vítkov	Přeštice	400	Commissioning
Amprion-Elia	ALEGRO	Oberziet (Amprion)	Lixhe (Elia)	320 DC	Commissioning
TTG	gruen	Conneforde	Fedderwarden	380	Commissioning
TTG	gelb	Conneforde	Fedderwarden	380	Commissioning
TTG	1	Maade	Fedderwarden	380	Commissioning
TTG	2	Maade	Fedderwarden	380	Commissioning
TTG	1	Audorff	Schuby West	380	Commissioning
TTG	2	Audorff	Schuby West	380	Commissioning
TTG	1	Handewitt	Schuby West	380	Commissioning
TTG	2	Handewitt	Schuby West	380	Commissioning
TTG	rot	Flensburg	Audorff	220	Decommissioning
TTG	gelb	Flensburg	Audorff	220	Decommissioning
TTG	1	Wahle	Lamspringe	380	Commissioning
TTG	2	Wahle	Lamspringe	380	Commissioning
TTG	1	Hardeggen	Lamspringe	380	Commissioning
TTG	2	Hardeggen	Lamspringe	380	Commissioning
TTG	2	Hardeggen	Goetzdorf	220	Decommissioning
TTG	3	Hardeggen	Goetzdorf	220	Decommissioning
TTG	1	Hardeggen	Godenau/Lehrte	220	Decommissioning
TTG	2	Hardeggen	Godenau/Lehrte	220	Decommissioning
TTG	3	Hardeggen	Godenau/Lehrte	220	Decommissioning
TTG	Nordlink	Tonstad	Wilster	380	Commissioning
TTG	1	Handewitt	Kasso	380	Commissioning

TSO	Name	From	To	U [kV]	Commissioning/Decommissioning
TTG	2	Handewitt	Kasso	380	Commissioning
TTG	rot	Flensburg	Kasso	220	Decommissioning
TTG	gelb	Flensburg	Ensted	220	Decommissioning
PSE	216	Pątnów	Jasiniec	220	Decommissioning
PSE	429	Pątnów	Jasiniec	400	Commissioning
RTE-National Grid	IFA2	Tourbe	Chilling	400	Commissioning
AST	---	Riga CHP2	Riga CHP2	330	Commissioning
AST*	---	Riga CHP2	Sindi	330	Commissioning
Elering*	---	Sindi	Riga CHP2	330	Commissioning
Elering	---	Harku	Sindi	330	Commissioning

Transformers and PSTs

TSO	Name	From	To	U [kV/kV]	Commissioning/Decommissioning
SEPS	T401BYST	Bystricany	Bystricany	400/110	Commissioning
SEPS	T202BYST	Bystricany	Bystricany	220/110	Decommissioning
ČEPS	T402	Vítkov	Vítkov	400/110	Commissioning
TenneT NL	3rd PST	Meeden	Meeden	380/380	Commissioning
TTG	T421	Conneforde	Conneforde	380/220	Decommissioning
TTG	T212	Conneforde	Conneforde	220/110	Decommissioning
TTG	T423	Conneforde	Conneforde	380/220	Commissioning
TTG	T413	Conneforde	Conneforde	380/110	Commissioning
TTG	DK9	Schwandorf	Schwandorf	380/110	Decommissioning
TTG	T421	Fedderwarden	Fedderwarden	380/220	Commissioning
TTG	T422	Fedderwarden	Fedderwarden	380/220	Commissioning
TTG	T411	Lamspringe	Lamspringe	380/110	Commissioning
TTG	T412	Lamspringe	Lamspringe	380/110	Commissioning
TTG	T411	Hardeggen	Hardeggen	380/110	Commissioning
TTG	T412	Hardeggen	Hardeggen	380/110	Commissioning
TTG	T413	Hardeggen	Hardeggen	380/110	Commissioning
TTG	T213	Hardeggen	Hardeggen	220/110	Decommissioning
TTG	T214	Hardeggen	Hardeggen	220/110	Decommissioning
TTG	T211	Godenau	Godenau	220/110	Decommissioning
TTG	T212A	Godenau	Godenau	220/110	Decommissioning
TTG	T212B	Godenau	Godenau	220/110	Decommissioning
TTG	411	Flensburg	Flensburg	380/110	Decommissioning
TTG	412	Flensburg	Flensburg	380/110	Decommissioning
TTG	211	Flensburg	Flensburg	220/110	Decommissioning
TTG	212A	Flensburg	Flensburg	220/110	Decommissioning
TTG	212B	Flensburg	Flensburg	220/110	Decommissioning
TTG	411	Handewitt	Handewitt	380/110	Commissioning
TTG	412	Handewitt	Handewitt	380/110	Commissioning

All TSOs' scenario definition and scenario description for the year 2020 (in accordance with Article 65 of the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation).

TSO	Name	From	To	U [kV/kV]	Commissioning/Decommissioning
TTG	414	Handewitt	Handewitt	380/110	Commissioning
PSE	DUN-A3	Dunowo	Dunowo	400/110	Commissioning
PSE	WYS-A1	Wyszków	Wyszków	220/110	Commissioning

Generation units:

TSO	Name	Name of Substation	U [kV]	Type	Commissioning/Decommissioning
SVK	Hocksjön	Storfinnforsen	400	Wind	Commissioning