

# Day-ahead

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<b>Bidding Zones</b>		
<b>Bidding Area EIC Code</b>	<b>Name</b>	<b>Short Name</b>
43YLRI-----04	Latvia-Russia Import	LRI
10YMA-ONE-----O	Morocco	MO
10YES-REE-----0	Spain	ES
10YNO-3-----J	Norway 3	NO3
10Y1001A1001A893	Corsica	CORS
10Y1001A1001A80L	Austria Italy Exchange	AUST
10Y1001A1001A016	Northern Ireland	NIR
10YNL-----L	Netherlands	NL
10Y1001A1001A44P	Sweden 1	SE1
10YHR-HEP-----M	Croatia	HR
10Y1001A1001A64J	Norway 1 internal	NO1A
10YFR-RTE-----C	France	FR
10Y1001A1001A56I	Lithuania-Belarus Export	LBE
10Y1001A1001A48H	Norway 5	NO5
10YSI-ELES-----O	Southpool	BSP
10Y1001A1001A68B	Swiss Italy Exchange	SVIZ
10YCA-BULGARIA-R	Bulgaria	BG
10Y1001A1001A788	Sud	SUD
38YNPSRUIMP----S	Estonia-Russian Import	ERI
10YGR-HTSO-----Y	Greece Mainland	GREE
43YLRE-----008	Latvia-Russia Export	LRE
10Y1001A1001A81J	France Italy Exchange	FRAN
10Y1001A1001A45N	Sweden 2	SE2
10Y1001A1001A73I	Nord	NORD
10Y1001A1001A70O	Centro Nord	CNOR

22Y201903145---4	Germany 1 internal	ALDE
10YDK-1-----W	Denmark 1	DK1
10Y1001A1001A877	Malta	MALT
10YNO-4-----9	Norway 4	NO4
10YBE-----2	Belgium	BE
10YNO-1-----2	Norway 1	NO1
10Y1001A1001A46L	Sweden 3	SE3
10Y1001A1001A74G	Sardinia	SARD
10YAT-APG-----L	Austria	AT
10Y1001A1001A66F	Greece	GREC
10Y1001C--00096J	Calabria	CALA
10YLV-1001A00074	Latvia	LV
22Y201903144---9	Belgium 1 internal	ALBE
10YPT-REN-----W	Portugal	PT
10Y1001C--000611	Montenegro	MONT
10YFI-1-----U	Finland	FI
10Y1001A1001A71M	Centro Sud	CSUD
10Y1001A1001A885	Corsica CA	COAC
10YIE-1001A00010	Republic Of IreLand	ROI
10Y1001C--00038X	Poland Internal	PLC
10Y1001A1001A47J	Sweden 4	SE4
10Y1001A1001A75E	Sicily	SICI
10YLT-1001A0008Q	Lithuania	LT
10Y1001A1001A67D	Slovenia Italy Exchange	SLOV
10Y1001A1001A39I	Estonia	EE
10YNO-2-----T	Norway 2	NO2
10YPL-AREA-----S	Poland	PL
10YDK-2-----M	Denmark 2	DK2
10YDK-1-----AA	Denmark 1 internal	DK1A
10YCB-GERMANY--8	Germany	DE/LU
10YHU-MAVIR----U	Hungary	HU
10YRO-TEL-----P	Romania	RO
10YDOM-1001A082L	Germany Internal 2	DEA2
10YCZ-CEPS-----N	Czech Republic	CZ
10YSK-SEPS-----K	Slovakia	SK

## Scheduling areas

Scheduling Area EIC Code	Name	Short Name	Bidding Area EIC Code	Write results?
43YLRI-----04	Scheduling Area - Latvia-Russia Import	LRI	43YLRI-----04	0
10YMA-ONE-----O	Scheduling Area - Morocco	MO	10YMA-ONE-----O	0
10YES-REE-----O	Scheduling Area - Spain	ES	10YES-REE-----O	0
10YNO-3-----J	Scheduling Area - Norway 3	NO3	10YNO-3-----J	0
10Y1001A1001A893	Scheduling Area - Corsica	CORS	10Y1001A1001A893	0
10Y1001A1001A80L	Scheduling Area - Austria Italy Exchange	AUST	10Y1001A1001A80L	0
10Y1001A1001A016	Scheduling Area - Northern Ireland	NIR	10Y1001A1001A016	0
10Y1001A1001A44P	Scheduling Area - Sweden 1	SE1	10Y1001A1001A44P	0
10YNL-----L	Scheduling Area - Netherlands	NL	10YNL-----L	1
10YHR-HEP-----M	Scheduling Area - Croatia	HR	10YHR-HEP-----M	0
10Y1001A1001A64J	Scheduling Area - Norway 1 internal	NO1A	10Y1001A1001A64J	0
10YFR-RTE-----C	Scheduling Area - France	FR	10YFR-RTE-----C	1
10Y1001A1001A56I	Scheduling Area - Lithuania-Belarus Export	LBE	10Y1001A1001A56I	0
10Y1001A1001A48H	Scheduling Area - Norway 5	NO5	10Y1001A1001A48H	0
10YSI-ELES-----O	Scheduling Area - Southpool	BSP	10YSI-ELES-----O	0
10Y1001A1001A68B	Scheduling Area - Swiss Italy Exchange	SVIZ	10Y1001A1001A68B	0
38YNPSRUIMP----S	Scheduling Area - Estonia-Russian Import	ERI	38YNPSRUIMP----S	0
10YCA-BULGARIA-R	Scheduling Area - Bulgaria	BG	10YCA-BULGARIA-R	0
10Y1001A1001A788	Scheduling Area - Sud	SUD	10Y1001A1001A788	0
10YGR-HTSO-----Y	Scheduling Area - Greece Mainland	GREE	10YGR-HTSO-----Y	0
43YLRE-----008	Scheduling Area - Latvia-Russia Export	LRE	43YLRE-----008	0
10Y1001A1001A81J	Scheduling Area - France Italy Exchange	FRAN	10Y1001A1001A81J	0
10Y1001A1001A45N	Scheduling Area - Sweden 2	SE2	10Y1001A1001A45N	0
10Y1001A1001A73I	Scheduling Area - Nord	NORD	10Y1001A1001A73I	0
10YDE-RWENET---I	Scheduling Area - Amprion GmbH	AMP	10YCB-GERMANY--8	1
10YDE-VE-----2	Scheduling Area - 50Hertz	50Hz	10YCB-GERMANY--8	1
10YDE-EON-----1	Scheduling Area - TenneT DE	TTG	10YCB-GERMANY--8	1
22Y201903145---4	Scheduling Area - ALEGrO Germany	ALDE	22Y201903145---4	0
10Y1001A1001A700	Scheduling Area - Centro Nord	CNOR	10Y1001A1001A700	0
10YDK-1-----W	Scheduling Area - Denmark 1	DK1	10YDK-1-----W	0
10Y1001A1001A877	Malta	MALT	10Y1001A1001A877	0
10YNO-4-----9	Norway 4	NO4	10YNO-4-----9	0
10YBE-----2	Belgium	BE	10YBE-----2	1
10YNO-1-----2	Norway 1	NO1	10YNO-1-----2	0
10Y1001A1001A46L	Sweden 3	SE3	10Y1001A1001A46L	0
10Y1001A1001A74G	Sardinia	SARD	10Y1001A1001A74G	0
10YAT-APG-----L	Austria	AT	10YAT-APG-----L	1
10Y1001A1001A66F	Greece	GREC	10Y1001A1001A66F	0
10Y1001C--00096J	Calabria	CALA	10Y1001C--00096J	0
10YLV-1001A00074	Latvia	LV	10YLV-1001A00074	0

22Y201903144---9	Belgium 1 internal	ALBE	22Y201903144---9	0
10YPT-REN-----W	Portugal	PT	10YPT-REN-----W	0
10Y1001C--000611	Montenegro	MONT	10Y1001C--000611	0
10YFI-1-----U	Finland	FI	10YFI-1-----U	0
10Y1001A1001A71M	Centro Sud	CSUD	10Y1001A1001A71M	0
10YDE-ENBW-----N	TransnetBW	TNG	10YCB-GERMANY--8	1
10Y1001A1001A885	Corsica CA	COAC	10Y1001A1001A885	0
10YIE-1001A00010	Republic Of IreLand	ROI	10YIE-1001A00010	0
10Y1001C--00038X	Poland Internal	PLC	10Y1001C--00038X	0
10Y1001A1001A75E	Sicily	SICI	10Y1001A1001A75E	0
10Y1001A1001A47J	Sweden 4	SE4	10Y1001A1001A47J	0
10YLT-1001A0008Q	Lithuania	LT	10YLT-1001A0008Q	0
10Y1001A1001A39I	Estonia	EE	10Y1001A1001A39I	0
10Y1001A1001A67D	Slovenia Italy Exchange	SLOV	10Y1001A1001A67D	0
10YNO-2-----T	Norway 2	NO2	10YNO-2-----T	0
10YPL-AREA-----S	Poland	PL	10YPL-AREA-----S	0
10YDK-2-----M	Denmark 2	DK2	10YDK-2-----M	0
10YDK-1-----AA	Denmark 1 internal	DK1A	10YDK-1-----AA	0
10YHU-MAVIR-----U	Hungary	HU	10YHU-MAVIR-----U	0
10YRO-TEL-----P	Romania	RO	10YRO-TEL-----P	0
10YDOM-1001A082L	Germany Internal 2	DEA2	10YDOM-1001A082L	0
10Y CZ-CEPS-----N	Czech Republic	CZ	10Y CZ-CEPS-----N	0
10YSK-SEPS-----K	Slovakia	SK	10YSK-SEPS-----K	0

<b>NEMO Hubs</b>			
<b>NEMO Hub Code</b>	<b>Name</b>	<b>Scheduling Area EIC Code</b>	<b>Bidding zone EIC Code</b>
LRE--LRE-----NP	NP_LRE	43YLRE-----008	43YLRE-----008
DE---TNG----EPEX	EPEX_TNG	10YDE-ENBW----N	10YCB-GERMANY--8
DE---TTG----EPEX	EPEX_TTG	10YDE-EON-----1	10YCB-GERMANY--8
DE---AMP----EPEX	EPEX_AMP	10YDE-RWENET---I	10YCB-GERMANY--8
MALT-MALT----GME	GME_MALT	10Y1001A1001A877	10Y1001A1001A877
PL---PL-----NP	NP_PL	10YPL-AREA----S	10YPL-AREA----S
NO1A-NO1A----NP	NP_NO1A	10Y1001A1001A64J	10Y1001A1001A64J
FRAN-FRAN----GME	GME_FRAN	10Y1001A1001A81J	10Y1001A1001A81J
DE---TNG----EXAA	EXAA_TNG	10YDE-ENBW----N	10YCB-GERMANY--8
BSP--BSP----GME	GME_BSP	10YSI-ELES----O	10YSI-ELES----O
PL---PL-----TGE	TGE_PL	10YPL-AREA----S	10YPL-AREA----S
ALBE-ALBE----NP	NP_ALBE	22Y201903144---9	22Y201903144---9
LRI--LRI-----NP	NP_LRI	43YLRI-----04	43YLRI-----04
COAC-COAC----GME	GME_COAC	10Y1001A1001A885	10Y1001A1001A885
ALDE-ALDE----NP	NP_ALDE	22Y201903145---4	22Y201903145---4
CORS-CORS----GME	GME_CORS	10Y1001A1001A893	10Y1001A1001A893
AT---AT-----EPEX	EPEX_AT	10YAT-APG-----L	10YAT-APG-----L
DE---AMP----EXAA	EXAA_AMP	10YDE-RWENET---I	10YCB-GERMANY--8
SICI-SICI----GME	GME_SICI	10Y1001A1001A75E	10Y1001A1001A75E
DK1A-DK1A----NP	NP_DK1A	10YDK-1-----AA	10YDK-1-----AA
AT---AT-----EXAA	EXAA_AT	10YAT-APG-----L	10YAT-APG-----L
AT---AT-----NP	NP_AT	10YAT-APG-----L	10YAT-APG-----L
DE---TTG----EXAA	EXAA_TTG	10YDE-EON-----1	10YCB-GERMANY--8
DK1A-DK1A---EPEX	EPEX_DK1A	10YDK-1-----AA	10YDK-1-----AA
LV---LV-----NP	NP_LV	10YLV-1001A00074	10YLV-1001A00074
CNOR-CNOR----GME	GME_CNOR	10Y1001A1001A700	10Y1001A1001A700
NIR--NIR----SEMO	SEMO_NIR	10Y1001A1001A016	10Y1001A1001A016
NO1A-NO1A---EPEX	EPEX_NO1A	10Y1001A1001A64J	10Y1001A1001A64J
FR---FR-----EPEX	EPEX_FR	10YFR-RTE-----C	10YFR-RTE-----C
ERI--ERI-----NP	NP_ERI	38YNPSRUIMP----S	38YNPSRUIMP----S
DE---50Hz---EXAA	EXAA_50Hz	10YDE-VE-----2	10YCB-GERMANY--8
NORD-NORD----GME	GME_NORD	10Y1001A1001A73I	10Y1001A1001A73I
DE---TNG-----NP	NP_TNG	10YDE-ENBW----N	10YCB-GERMANY--8
AUST-AUST----GME	GME_AUST	10Y1001A1001A80L	10Y1001A1001A80L
DK2--DK2----EPEX	EPEX_DK2	10YDK-2-----M	10YDK-2-----M
EE---EE-----NP	NP_EE	10Y1001A1001A39I	10Y1001A1001A39I
CSUD-CSUD----GME	GME_CSUD	10Y1001A1001A71M	10Y1001A1001A71M
SLOV-SLOV----GME	GME_SLOV	10Y1001A1001A67D	10Y1001A1001A67D
SE2--SE2-----NP	NP_SE2	10Y1001A1001A45N	10Y1001A1001A45N
NO1--NO1-----NP	NP_NO1	10YNO-1-----2	10YNO-1-----2
DE---50Hz---EPEX	EPEX_50Hz	10YDE-VE-----2	10YCB-GERMANY--8
NO4--NO4----EPEX	EPEX_NO4	10YNO-4-----9	10YNO-4-----9
NO3--NO3-----NP	NP_NO3	10YNO-3-----J	10YNO-3-----J

CALA-CALA---GME	GME_CALA	10Y1001C--00096J	10Y1001C--00096J
SE3--SE3---EPEX	EPEX_SE3	10Y1001A1001A46L	10Y1001A1001A46L
NO5--NO5-----NP	NP_NO5	10Y1001A1001A48H	10Y1001A1001A48H
PLC--PLC---EPEX	EPEX_PLC	10Y1001C--00038X	10Y1001C--00038X
NO2--NO2---EPEX	EPEX_NO2	10YNO-2-----T	10YNO-2-----T
SE4--SE4-----NP	NP_SE4	10Y1001A1001A47J	10Y1001A1001A47J
SE1--SE1---EPEX	EPEX_SE1	10Y1001A1001A44P	10Y1001A1001A44P
MO---MO-----OMIE	OMIE_MO	10YMA-ONE-----O	10YMA-ONE-----O
DK2--DK2-----NP	NP_DK2	10YDK-2-----M	10YDK-2-----M
DK1--DK1-----NP	NP_DK1	10YDK-1-----W	10YDK-1-----W
ROI--ROI---SEMO	SEMO_ROI	10YIE-1001A00010	10YIE-1001A00010
FR---FR-----NP	NP_FR	10YFR-RTE-----C	10YFR-RTE-----C
BE---BE---EPEX	EPEX_BE	10YBE-----2	10YBE-----2
DE---AMP-----NP	NP_AMP	10YDE-RWENET---I	10YCB-GERMANY--8
SVIZ-SVIZ---GME	GME_SVIZ	10Y1001A1001A68B	10Y1001A1001A68B
DE---50Hz-----NP	NP_50Hz	10YDE-VE-----2	10YCB-GERMANY--8
HR---HR---CROPEX	CROPEX_HR	10YHR-HEP-----M	10YHR-HEP-----M
LT---LT-----NP	NP_LT	10YLT-1001A0008Q	10YLT-1001A0008Q
NL---NL---EPEX	EPEX_NL	10YNL-----L	10YNL-----L
FI---FI---EPEX	EPEX_FI	10YFI-1-----U	10YFI-1-----U
FI---FI-----NP	NP_FI	10YFI-1-----U	10YFI-1-----U
PT---PT-----OMIE	OMIE_PT	10YPT-REN-----W	10YPT-REN-----W
DE---TTG-----NP	NP_TTG	10YDE-EON-----1	10YCB-GERMANY--8
SUD--SUD-----GME	GME_SUD	10Y1001A1001A788	10Y1001A1001A788
NL---NL-----NP	NP_NL	10YNL-----L	10YNL-----L
GREC-GREC---GME	GME_GREC	10Y1001A1001A66F	10Y1001A1001A66F
ES---ES---OMIE	OMIE_ES	10YES-REE-----0	10YES-REE-----0
ALDE-ALDE---EPEX	EPEX_ALDE	22Y201903145---4	22Y201903145---4
PL---PL---EPEX	EPEX_PL	10YPL-AREA-----S	10YPL-AREA-----S
GREE-GREE--HENEX	HENEX_GREE	10YGR-HTSO-----Y	10YGR-HTSO-----Y
ALBE-ALBE---EPEX	EPEX_ALBE	22Y201903144---9	22Y201903144---9
BE---BE-----NP	NP_BE	10YBE-----2	10YBE-----2
ALDE-ALDE---EXAA	EXAA_ALDE	22Y201903145---4	22Y201903145---4
MONT-MONT---GME	GME_MONT	10Y1001C--000611	10Y1001C--000611
BG---BG-----NP	NP_BG	10YCA-BULGARIA-R	10YCA-BULGARIA-R
DK1--DK1---EPEX	EPEX_DK1	10YDK-1-----W	10YDK-1-----W
NO2--NO2-----NP	NP_NO2	10YNO-2-----T	10YNO-2-----T
PLC--PLC-----NP	NP_PLC	10Y1001C--00038X	10Y1001C--00038X
LBE--LBE-----NP	NP_LBE	10Y1001A1001A56I	10Y1001A1001A56I
NO5--NO5---EPEX	EPEX_NO5	10Y1001A1001A48H	10Y1001A1001A48H
SE1--SE1-----NP	NP_SE1	10Y1001A1001A44P	10Y1001A1001A44P
SE3--SE3-----NP	NP_SE3	10Y1001A1001A46L	10Y1001A1001A46L
SE4--SE4---EPEX	EPEX_SE4	10Y1001A1001A47J	10Y1001A1001A47J
NO3--NO3---EPEX	EPEX_NO3	10YNO-3-----J	10YNO-3-----J
SE2--SE2---EPEX	EPEX_SE2	10Y1001A1001A45N	10Y1001A1001A45N
PLC--PLC-----TGE	TGE_PLC	10Y1001C--00038X	10Y1001C--00038X

SARD-SARD----GME	GME_SARD	10Y1001A1001A74G	10Y1001A1001A74G
NO4--NO4-----NP	NP_NO4	10YNO-4-----9	10YNO-4-----9
NO1--NO1----EPEX	EPEX_NO1	10YNO-1-----2	10YNO-1-----2
RO---RO----OPCOM	OPCOM_RO	10YRO-TEL-----P	10YRO-TEL-----P
HU---HU-----HUPX	HUPX_HU	10YHU-MAVIR----U	10YHU-MAVIR----U
DEA2-DEA2---EXAA	EXAA_DEA2	10YDOM-1001A082L	10YDOM-1001A082L
DEA2-DEA2-----NP	NP_DEA2	10YDOM-1001A082L	10YDOM-1001A082L
CZ---CZ-----OTE	OTE_CZ	10YCZ-CEPS-----N	10YCZ-CEPS-----N
DEA2-DEA2---EPEX	EPEX_DEA2	10YDOM-1001A082L	10YDOM-1001A082L
SK---SK-----OKTE	OKTE_SK	10YSK-SEPS-----K	10YSK-SEPS-----K

Connections						
Name	From Bidding Zone EIC Code	To Bidding Zone EIC Code	Flow Precision From	Flow Precision To	Linear Coefficient	Quadratic Coefficient
SPAI-PORT	10YES-REE-----0	10YPT-REN-----W	1	1	0	2
DK1A-SWE3	10YDK-1-----AA	10Y1001A1001A46L	1	1	240000	2
NOR3-NOR5	10YNO-3-----J	10Y1001A1001A48H	1	1	200000	2
NO1A-NOR1	10Y1001A1001A64J	10YNO-1-----2	1	1	0	0
ESTO-LATV	10Y1001A1001A39I	10YLV-1001A00074	1	1	200000	2
NOR2-NOR5	10YNO-2-----T	10Y1001A1001A48H	1	1	200000	2
CALA-SICI	10Y1001C--00096J	10Y1001A1001A75E	3	3	0	0
ROIR-NIRE	10YIE-1001A00010	10Y1001A1001A016	1	1	0	2
SWE2-SWE3	10Y1001A1001A45N	10Y1001A1001A46L	1	1	200000	2
DEN1-GERM	10YDK-1-----W	10YCB-GERMANY--8	1	1	200000000	2
NOR3-NOR4	10YNO-3-----J	10YNO-4-----9	1	1	200000	2
FRIT-NORD	10Y1001A1001A81J	10Y1001A1001A73I	3	3	0	0
ESTO-FINL	10Y1001A1001A39I	10YFI-1-----U	1	1	200000	2
LITH-SWE4	10YLT-1001A0008Q	10Y1001A1001A47J	1	1	200000	2
NETH-BELG	10YNL-----L	10YBE-----2	1	1	0	20000
ALDE-ALBE	22Y201903144---9	22Y201903145---4	1	1	0	60000
BSP-HR	10YSI-ELES-----O	10YHR-HEP-----M	0	0	0	0
SARD-COAC	10Y1001A1001A74G	10Y1001A1001A885	3	3	0	0
DEN1-NETH	10YDK-1-----W	10YNL-----L	1	1	200120000	3
SPAI-FRAN	10YES-REE-----0	10YFR-RTE-----C	1	1	0	2
LATV-LITH	10YLV-1001A00074	10YLT-1001A0008Q	1	1	200000	2
DEN2-SWE4	10YDK-2-----M	10Y1001A1001A47J	1	1	200000	2
LITH-PLC	10YLT-1001A0008Q	10Y1001C--00038X	1	1	200000	2
DK1A-NOR2	10YDK-1-----AA	10YNO-2-----T	1	1	240000	2
NORD-CNOR	10Y1001A1001A73I	10Y1001A1001A700	3	3	0	0
GERM-ALDE	10YCB-GERMANY--8	22Y201903145---4	1	1	0	0
SWE3-SWE4	10Y1001A1001A46L	10Y1001A1001A47J	1	1	200000	2
AT-AUST	10YAT-APG-----L	10Y1001A1001A80L	0	3	200000000	20000
SVIZ-NORD	10Y1001A1001A68B	10Y1001A1001A73I	3	3	0	0
FINL-NOR4	10YFI-1-----U	10YNO-4-----9	1	1	100	0
GREE-BULG	10YGR-HTSO-----Y	10YCA-BULGARIA-R	1	1	0	2
LIBE-LITH	10Y1001A1001A56I	10YLT-1001A0008Q	1	1	0	2
BELG-FRAN	10YBE-----2	10YFR-RTE-----C	1	1	0	20000
NOR1-NOR3	10YNO-1-----2	10YNO-3-----J	1	1	200000	2
FRAN-FRIT	10YFR-RTE-----C	10Y1001A1001A81J	0	3	200000000	20000

LATV-LARI	10YLV-1001A00074	43YLRI-----04	1	1	0	2
FRAN-GERM	10YFR-RTE-----C	10YCB-GERMANY--8	1	1	0	20000
GERM-AT	10YCB-GERMANY--8	10YAT-APG-----L	1	1	0	20000
SWE4-GERM	10Y1001A1001A47J	10YCB-GERMANY--8	1	1	200000000	2
SARD-CSUD	10Y1001A1001A74G	10Y1001A1001A71M	3	3	0	0
FINL-SWE1	10YFI-1-----U	10Y1001A1001A44P	1	1	240000	2
PL-PLC	10YPL-AREA-----S	10Y1001C--00038X	1	1	200000	2
AT-BSP	10YAT-APG-----L	10YSI-ELES-----O	0	0	200000000	20000
BELG-ALBE	10YBE-----2	22Y201903144---9	1	1	0	0
DEN2-GERM	10YDK-2-----M	10YCB-GERMANY--8	1	1	200000000	2
SICI-MALT	10Y1001A1001A75E	10Y1001A1001A877	3	3	0	0
NOR3-SWE2	10YNO-3-----J	10Y1001A1001A45N	1	1	200000	2
CNOR-CORS	10Y1001A1001A700	10Y1001A1001A893	3	3	200000000	0
GERM-NETH	10YCB-GERMANY--8	10YNL-----L	1	1	0	20000
ESTO-ESRU	10Y1001A1001A39I	38YNPSRUIMP----S	1	1	0	2
SUD_-GREC	10Y1001A1001A788	10Y1001A1001A66F	3	3	0	0
NO1A-NOR5	10Y1001A1001A64J	10Y1001A1001A48H	1	1	200000	2
SWE1-NOR4	10Y1001A1001A44P	10YNO-4-----9	1	1	200000	2
AUST-NORD	10Y1001A1001A80L	10Y1001A1001A73I	3	3	0	0
SLOV-BSP	10Y1001A1001A67D	10YSI-ELES-----O	3	3	200000000	20000
DEN1-DEN2	10YDK-1-----W	10YDK-2-----M	1	1	280000	2
NOR1-SWE3	10YNO-1-----2	10Y1001A1001A46L	1	1	200000	2
FINL-SWE3	10YFI-1-----U	10Y1001A1001A46L	1	1	200000	2
SPAI-MORO	10YES-REE-----0	10YMA-ONE-----O	1	1	0	2
LATV-LARE	10YLV-1001A00074	43YLRE-----008	1	1	0	2
PLC-SWE4	10Y1001C--00038X	10Y1001A1001A47J	1	1	200000	2
NOR4-SWE2	10YNO-4-----9	10Y1001A1001A45N	1	1	200000	2
SUD_-CALA	10Y1001A1001A788	10Y1001C--00096J	3	3	0	0
NOR2-GERM	10YNO-2-----T	10YCB-GERMANY--8	1	1	200000	2
NO1A-NOR2	10Y1001A1001A64J	10YNO-2-----T	1	1	200000	2
CNOR-CSUD	10Y1001A1001A700	10Y1001A1001A71M	3	3	0	0
NETH-NOR2	10YNL-----L	10YNO-2-----T	1	1	200000000	2
GREE-GREC	10YGR-HTSO-----Y	10Y1001A1001A66F	3	3	0	2
DK1A-DEN1	10YDK-1-----AA	10YDK-1-----W	1	1	0	2
CSUD-SUD_	10Y1001A1001A71M	10Y1001A1001A788	3	3	0	0
SLOV-NORD	10Y1001A1001A67D	10Y1001A1001A73I	3	3	0	0
SWE1-SWE2	10Y1001A1001A44P	10Y1001A1001A45N	1	1	200000	2
CSUD-MONT	10Y1001A1001A71M	10Y1001C--000611	3	3	0	0
CORS-SARD	10Y1001A1001A893	10Y1001A1001A74G	3	3	0	0

DEA2-GERM	10YDOM-1001A082L	10YCB-GERMANY--8	1	1	0	20000
AT-CZEC	10YAT-APG-----L	10YCZ-CEPS-----N	1	1	0	20000
PLC-DEA2	10Y1001C--00038X	10YDOM-1001A082L	1	1	0	0
PLC-CZEC	10Y1001C--00038X	10YCZ-CEPS-----N	1	1	0	20000
HUNG- ROMN	10YHU-MAVIR----U	10YRO-TEL-----P	1	1	0	20000
SLVK-HUNG	10YSK-SEPS-----K	10YHU-MAVIR----U	1	1	0	20000
CZEC-GERM	10YCZ-CEPS-----N	10YCB-GERMANY--8	1	1	0	20000
HUNG -AT	10YHU-MAVIR----U	10YAT-APG-----L	1	1	0	20000
CZEC-SLVK	10YCZ-CEPS-----N	10YSK-SEPS-----K	1	1	0	20000
CZEC-DEA2	10YCZ-CEPS-----N	10YDOM-1001A082L	1	1	0	0
PLC-SLVK	10Y1001C--00038X	10YSK-SEPS-----K	1	1	0	20000

## Scheduling Areas Lines

Name	From Scheduling Area EIC Code	To Scheduling Area EIC Code	Linear Coefficient	Quadratic Coefficient	Thermal Capacity
NETH-NOR2	10YNL-----L	10YNO-2-----T	0	1	1
BELG-FRAN	10YBE-----2	10YFR-RTE-----C	0	1	1
NOR2-NOR5	10YNO-2-----T	10Y1001A1001A48H	0	1	1
ROIR-NIRE	10YIE-1001A00010	10Y1001A1001A016	0	1	1
FRIT-NORD	10Y1001A1001A81J	10Y1001A1001A73I	0	1	1
AUST-NORD	10Y1001A1001A80L	10Y1001A1001A73I	0	1	1
GERM TenneT - AT	10YDE-EON-----1	10YAT-APG-----L	0	1	426
GERM 50 Hertz - GERM Amprion	10YDE-VE-----2	10YDE-RWENET---I	0	1	300
NOR4-SWE2	10YNO-4-----9	10Y1001A1001A45N	0	1	1
CNOR-CORS	10Y1001A1001A700	10Y1001A1001A893	0	1	1
CORS-SARD	10Y1001A1001A893	10Y1001A1001A74G	0	1	1
SWE4-GERM TenneT	10Y1001A1001A47J	10YDE-EON-----1	0	1	1
DK1A-SWE3	10YDK-1-----AA	10Y1001A1001A46L	0	1	1
NO1A-NOR5	10Y1001A1001A64J	10Y1001A1001A48H	0	1	1
LATV-LITH	10YLV-1001A00074	10YLT-1001A0008Q	0	1	1
LATV-LARE	10YLV-1001A00074	43YLRE-----008	0	1	1
NOR3-NOR4	10YNO-3-----J	10YNO-4-----9	0	1	1
SPAI-PORT	10YES-REE-----0	10YPT-REN-----W	0	1	1
ALDE - ALBE	22Y201903144---9	22Y201903145---4	0	1	1
SWE3-SWE4	10Y1001A1001A46L	10Y1001A1001A47J	0	1	1
DEN2-GERM 50 Hertz	10YDK-2-----M	10YDE-VE-----2	0	1	1
FRAN-FRIT	10YFR-RTE-----C	10Y1001A1001A81J	0	1	1
GERM TenneT - GERM TransnetBW	10YDE-EON-----1	10YDE-ENBW-----N	0	1	300
CSUD-SUD_	10Y1001A1001A71M	10Y1001A1001A788	0	1	1
SUD_-CALA	10Y1001A1001A788	10Y1001C--00096J	0	1	1
LITH-PLC	10YLT-1001A0008Q	10Y1001C--00038X	0	1	1
GERM 50 Hertz - GERM TransnetBW	10YDE-VE-----2	10YDE-ENBW-----N	0	1	300
PLC-SWE4	10Y1001C--00038X	10Y1001A1001A47J	0	1	1
SLOV-BSP	10Y1001A1001A67D	10YSI-ELES-----O	0	1	1
AT-AUST	10YAT-APG-----L	10Y1001A1001A80L	0	1	1
NO2-GERM TenneT	10YNO-2-----T	10YDE-EON-----1	0	1	1
ESTO-ESRU	10Y1001A1001A39I	38YNPSRUIMP---S	0	1	1
FINL-SWE3	10YFI-1-----U	10Y1001A1001A46L	0	1	1
SWE1-SWE2	10Y1001A1001A44P	10Y1001A1001A45N	0	1	1
DEN1-NETH	10YDK-1-----W	10YNL-----L	0	1	1
FINL-NOR4	10YFI-1-----U	10YNO-4-----9	0	1	1
BELG - ALBE	10YBE-----2	22Y201903144---9	0	1	1
NETH-BELG	10YNL-----L	10YBE-----2	0	1	1
NO1A-NOR2	10Y1001A1001A64J	10YNO-2-----T	0	1	1
GERM Amprion - NETH	10YDE-RWENET---I	10YNL-----L	0	1	844

SVIZ-NORD	10Y1001A1001A68B	10Y1001A1001A73I	0	1	1
GERM 50 Hertz - GERM TenneT	10YDE-VE-----2	10YDE-EON-----1	0	1	300
FRAN - GERM Amprion	10YFR-RTE-----C	10YDE-RWENET---I	0	1	557
GERM Amprion - AT	10YDE-RWENET---I	10YAT-APG-----L	0	1	264
SLOV-NORD	10Y1001A1001A67D	10Y1001A1001A73I	0	1	1
GERM Amprion - GERM TenneT	10YDE-RWENET---I	10YDE-EON-----1	0	1	300
NORD-CNOR	10Y1001A1001A73I	10Y1001A1001A700	0	1	1
ESTO-LATV	10Y1001A1001A39I	10YLV-1001A00074	0	1	1
CNOR-CSUD	10Y1001A1001A700	10Y1001A1001A71M	0	1	1
SARD-COAC	10Y1001A1001A74G	10Y1001A1001A885	0	1	1
DEN2-SWE4	10YDK-2-----M	10Y1001A1001A47J	0	1	1
NOR1-SWE3	10YNO-1-----2	10Y1001A1001A46L	0	1	1
LITH-SWE4	10YLT-1001A0008Q	10Y1001A1001A47J	0	1	1
SPAI-MORO	10YES-REE-----0	10YMA-ONE-----O	0	1	1
NOR1-NOR3	10YNO-1-----2	10YNO-3-----J	0	1	1
LATV-LARI	10YLV-1001A00074	43YLRI-----04	0	1	1
SPAI-FRAN	10YES-REE-----0	10YFR-RTE-----C	0	1	1
NO1A-NOR1	10Y1001A1001A64J	10YNO-1-----2	0	1	1
NOR3-SWE2	10YNO-3-----J	10Y1001A1001A45N	0	1	1
SWE2-SWE3	10Y1001A1001A45N	10Y1001A1001A46L	0	1	1
GREE-BULG	10YGR-HTSO-----Y	10YCA-BULGARIA-R	0	1	1
GERM TeneT - NETH	10YDE-EON-----1	10YNL-----L	0	1	156
GREE-GREC	10YGR-HTSO-----Y	10Y1001A1001A66F	0	1	1
SARD-CSUD	10Y1001A1001A74G	10Y1001A1001A71M	0	1	1
GERM TransnetBW - AT	10YDE-ENBW-----N	10YAT-APG-----L	0	1	310
FRAN - GERM TransnetBW	10YFR-RTE-----C	10YDE-ENBW-----N	0	1	443
CSUD-MONT	10Y1001A1001A71M	10Y1001C--000611	0	1	1
SUD_-GREC	10Y1001A1001A788	10Y1001A1001A66F	0	1	1
GERM Amprion - GERM TransnetBW	10YDE-RWENET---I	10YDE-ENBW-----N	0	1	300
CALA-SICI	10Y1001C--00096J	10Y1001A1001A75E	0	1	1
PL - PLC	10YPL-AREA-----S	10Y1001C--00038X	0	1	1
SICI-MALT	10Y1001A1001A75E	10Y1001A1001A877	0	1	1
DK1A-NOR2	10YDK-1-----AA	10YNO-2-----T	0	1	1
DEN1-GERM TenneT	10YDK-1-----W	10YDE-EON-----1	0	1	1
AT-BSP	10YAT-APG-----L	10YSI-ELES-----O	0	1	1
BSP-HR	10YSI-ELES-----O	10YHR-HEP-----M	0	1	1
FINL-SWE1	10YFI-1-----U	10Y1001A1001A44P	0	1	1
DEN1-DEN2	10YDK-1-----W	10YDK-2-----M	0	1	1
LIBE-LITH	10Y1001A1001A56I	10YLT-1001A0008Q	0	1	1
NOR3-NOR5	10YNO-3-----J	10Y1001A1001A48H	0	1	1
SWE1-NOR4	10Y1001A1001A44P	10YNO-4-----9	0	1	1
GERM Amprion - ALDE	10YDE-RWENET---I	22Y201903145---4	0	1	1
DK1A-DEN1	10YDK-1-----AA	10YDK-1-----W	0	1	1
ESTO-FINL	10Y1001A1001A39I	10YFI-1-----U	0	1	1
CZEC - DEA2	10YCZ-CEPS-----N	10YDOM-1001A082L	0	1	1
PLC-SLVK	10Y1001C--00038X	10YSK-SEPS-----K	0	1	1

HUNG-ROMN	10YHU-MAVIR----U	10YRO-TEL-----P	0	1	1
PLC -CZEC	10Y1001C--00038X	10YCZ-CEPS-----N	0	1	1
DEA2 - GERM 50 Hertz	10YDOM-1001A082L	10YDE-VE-----2	0	1	1
CZEC-SLVK	10YCZ-CEPS-----N	10YSK-SEPS-----K	0	1	1
AT - CZEC	10YAT-APG-----L	10YCZ-CEPS-----N	0	1	1
PLC - DEA2	10Y1001C--00038X	10YDOM-1001A082L	0	1	1
CZEC-GERM-TTG	10YCZ-CEPS-----N	10YDE-EON-----1	0	1	1
HUNG - AT	10YHU-MAVIR----U	10YAT-APG-----L	0	1	1
SLVK-HUNG	10YSK-SEPS-----K	10YHU-MAVIR----U	0	1	1

NEMO Hub Lines				
Name	From NEMO Hub Code	To NEMO Hub Code	Linear Coefficient	Quadratic Coefficient
EPEX_SE3 - NP_SE3	SE3--SE3----EPEX	SE3--SE3-----NP	0	1
NP_NO1A - NP_NO2	NO1A-NO1A----NP	NO2--NO2-----NP	0	1
EXAA_TTG - EPEX_TTG	DE---TTG----EXAA	DE---TTG----EPEX	0	1
EXAA_TNG - NP_TNG	DE---TNG----EXAA	DE---TNG-----NP	0	1
NP_NO1 - NP_SE3	NO1--NO1-----NP	SE3--SE3-----NP	0	1
EPEX_TTG - EPEX_TNG	DE---TTG----EPEX	DE---TNG----EPEX	0	1
EPEX_FR - NP_FR	FR---FR----EPEX	FR---FR-----NP	0	1
NP_PL - EPEX_PL	PL---PL-----NP	PL---PL----EPEX	0	1
EPEX_DK1A - NP_DK1A	DK1A-DK1A---EPEX	DK1A-DK1A----NP	0	1
EPEX_FR - EPEX_TNG	FR---FR----EPEX	DE---TNG----EPEX	0	1
NP_AMP - NP_AT	DE---AMP-----NP	AT---AT-----NP	0	1
GME_NORD - GME_CNOR	NORD-NORD----GME	CNOR-CNOR----GME	0	1
NP_50Hz - NP_TNG	DE---50Hz----NP	DE---TNG-----NP	0	1
EXAA_AMP - EPEX_NL	DE---AMP----EXAA	NL---NL-----EPEX	0	1
GME_SLOV - GME_BSP	SLOV-SLOV----GME	BSP--BSP----GME	0	1
EPEX_DK1 - EPEX_TTG	DK1--DK1----EPEX	DE---TTG----EPEX	0	1
NP_LT - NP_PLC	LT---LT-----NP	PLC-PLC-----NP	0	1
EPEX_PL - EPEX_PLC	PL---PL----EPEX	PLC-PLC----EPEX	0	1
NP_SE2 - NP_SE3	SE2--SE2-----NP	SE3--SE3-----NP	0	1
NP_BE - NP_ALBE	BE---BE-----NP	ALBE-ALBE----NP	0	1
EPEX_NO3 - EPEX_NO4	NO3--NO3----EPEX	NO4--NO4----EPEX	0	1
NP_EE - NP_FI	EE---EE-----NP	FI---FI-----NP	0	1
EPEX_NO1A - EPEX_NO2	NO1A-NO1A---EPEX	NO2--NO2----EPEX	0	1
NP_EE - NP_ERI	EE---EE-----NP	ERI--ERI-----NP	0	1
EPEX_NO4 - NP_NO4	NO4--NO4----EPEX	NO4--NO4-----NP	0	1
NP_AT - EXAA_AT	AT---AT-----NP	AT---AT----EXAA	0	1
EXAA_50Hz - EXAA_TTG	DE---50Hz---EXAA	DE---TTG----EXAA	0	1
NP_AMP - EXAA_AMP	DE---AMP-----NP	DE---AMP----EXAA	0	1
EPEX_DK1A - EPEX_SE3	DK1A-DK1A---EPEX	SE3--SE3----EPEX	0	1
NP_AMP - NP_TTG	DE---AMP-----NP	DE---TTG-----NP	0	1
NP_DK2 - NP_50Hz	DK2--DK2-----NP	DE---50Hz-----NP	0	1
EPEX_FR - EXAA_TNG	FR---FR----EPEX	DE---TNG----EXAA	0	1
NP_TTG - NP_AT	DE---TTG-----NP	AT---AT-----NP	0	1
GME_SLOV - GME_NORD	SLOV-SLOV----GME	NORD-NORD----GME	0	1
NP_AMP - NP_NL	DE---AMP-----NP	NL---NL-----NP	0	1
EPEX_ALBE - NP_ALBE	ALBE-ALBE---EPEX	ALBE-ALBE----NP	0	1
EPEX_50Hz - EPEX_TTG	DE---50Hz---EPEX	DE---TTG----EPEX	0	1
EPEX_SE3 - EPEX_SE4	SE3--SE3----EPEX	SE4--SE4----EPEX	0	1
NP_LV - NP_LT	LV---LV-----NP	LT---LT-----NP	0	1
NP_DK1 - NP_NL	DK1--DK1-----NP	NL---NL-----NP	0	1
NP_NO3 - NP_NO4	NO3--NO3-----NP	NO4--NO4-----NP	0	1
OMIE_ES - OMIE_MO	ES---ES-----OMIE	MO---MO----OMIE	0	1

EPEX_BE - EPEX_ALBE	BE---BE-----EPEX	ALBE-ALBE---EPEX	0	1
EPEX_FI - EPEX_NO4	FI---FI-----EPEX	NO4--NO4----EPEX	0	1
NP_SE4 - NP_TTG	SE4--SE4-----NP	DE---TTG-----NP	0	1
EXAA_TTG - NP_TTG	DE---TTG----EXAA	DE---TTG-----NP	0	1
EPEX_FI - EPEX_SE3	FI---FI-----EPEX	SE3--SE3----EPEX	0	1
NP_AT - EPEX_AT	AT---AT-----NP	AT---AT-----EPEX	0	1
NP_50Hz - EPEX_50Hz	DE---50Hz----NP	DE---50Hz---EPEX	0	1
NP_NO2 - NP_NO5	NO2--NO2-----NP	NO5--NO5-----NP	0	1
EPEX_NO2 - NP_NO2	NO2--NO2----EPEX	NO2--NO2-----NP	0	1
EXAA_AMP - EXAA_AT	DE---AMP----EXAA	AT---AT-----EXAA	0	1
NP_FR - NP_TNG	FR---FR-----NP	DE---TNG-----NP	0	1
GME_SICI - GME_MALT	SICI-SICI----GME	MALT-MALT----GME	0	1
EPEX_AMP - EPEX_NL	DE---AMP----EPEX	NL---NL-----EPEX	0	1
SEMO_ROI - SEMO_NIR	ROI--ROI----SEMO	NIR--NIR----SEMO	0	1
EPEX_ALDE - EXAA_ALDE	ALDE-ALDE---EPEX	ALDE-ALDE---EXAA	0	1
GME_SARD - GME_COAC	SARD-SARD----GME	COAC-COAC----GME	0	1
EXAA_TNG - EXAA_AT	DE---TNG----EXAA	AT---AT-----EXAA	0	1
EPEX_NO3 - NP_NO3	NO3--NO3----EPEX	NO3--NO3-----NP	0	1
NP_NO2 - NP_TTG	NO2--NO2-----NP	DE---TTG-----NP	0	1
EPEX_NO4 - EPEX_SE2	NO4--NO4----EPEX	SE2--SE2----EPEX	0	1
EPEX_ALBE - EXAA_ALDE	ALBE-ALBE---EPEX	ALDE-ALDE---EXAA	0	1
EPEX_AMP - EPEX_TTG	DE---AMP----EPEX	DE---TTG----EPEX	0	1
TGE_PL - TGE_PLC	PL---PL-----TGE	PLC-PLC-----TGE	0	1
NP_NL - NP_BE	NL---NL-----NP	BE---BE-----NP	0	1
NP_SE1 - NP_SE2	SE1--SE1-----NP	SE2--SE2-----NP	0	1
NP_DK1 - NP_DK2	DK1--DK1-----NP	DK2--DK2-----NP	0	1
EXAA_50Hz - EXAA_TNG	DE---50Hz---EXAA	DE---TNG----EXAA	0	1
NP_FI - NP_SE3	FI---FI-----NP	SE3--SE3-----NP	0	1
EXAA_AMP - EXAA_TTG	DE---AMP----EXAA	DE---TTG----EXAA	0	1
EPEX_50Hz - EPEX_AMP	DE---50Hz---EPEX	DE---AMP----EPEX	0	1
HENEX_GREE - GME_GREC	GREE-GREE--HENEX	GREC-GREC----GME	0	1
EPEX_NO2 - EPEX_NO5	NO2--NO2----EPEX	NO5--NO5----EPEX	0	1
EPEX_NO1 - EPEX_SE3	NO1--NO1----EPEX	SE3--SE3----EPEX	0	1
EPEX_SE1 - NP_SE1	SE1--SE1----EPEX	SE1--SE1-----NP	0	1
EPEX_FI - NP_FI	FI---FI-----EPEX	FI---FI-----NP	0	1
NP_FR - EXAA_TNG	FR---FR-----NP	DE---TNG----EXAA	0	1
EPEX_AMP - EPEX_AT	DE---AMP----EPEX	AT---AT-----EPEX	0	1
GME_FRAN - GME_NORD	FRAN-FRAN----GME	NORD-NORD----GME	0	1
EPEX_TTG - EPEX_NL	DE---TTG----EPEX	NL---NL-----EPEX	0	1
EPEX_ALDE - NP_ALDE	ALDE-ALDE---EPEX	ALDE-ALDE-----NP	0	1
GME_CORS - GME_SARD	CORS-CORS----GME	SARD-SARD----GME	0	1
EPEX_NO5 - NP_NO5	NO5--NO5----EPEX	NO5--NO5-----NP	0	1
GME_CALA - GME_SICI	CALA-CALA----GME	SICI-SICI----GME	0	1
NP_PL - NP_PLC	PL---PL-----NP	PLC-PLC-----NP	0	1
NP_TTG - NP_TNG	DE---TTG-----NP	DE---TNG-----NP	0	1

NP_ALBE - EXAA_ALDE	ALBE-ALBE----NP	ALDE-ALDE---EXAA	0	1
EPEX_DK1 - EPEX_DK2	DK1--DK1----EPEX	DK2--DK2----EPEX	0	1
EPEX_SE2 - EPEX_SE3	SE2--SE2----EPEX	SE3--SE3----EPEX	0	1
NP_LV - NP_LRI	LV---LV-----NP	LRI--LRI-----NP	0	1
EXAA_TNG - EPEX_TNG	DE---TNG----EXAA	DE---TNG----EPEX	0	1
NP_DK2 - NP_SE4	DK2--DK2-----NP	SE4--SE4-----NP	0	1
NP_50Hz - NP_AMP	DE---50Hz----NP	DE---AMP-----NP	0	1
EPEX_FI - EPEX_SE1	FI---FI-----EPEX	SE1--SE1----EPEX	0	1
TGE_PLC - EPEX_PLC	PLC--PLC----TGE	PLC--PLC----EPEX	0	1
NP_LT - NP_SE4	LT---LT-----NP	SE4--SE4-----NP	0	1
EPEX_DK2 - NP_DK2	DK2--DK2----EPEX	DK2--DK2-----NP	0	1
EPEX_50Hz - EPEX_TNG	DE---50Hz---EPEX	DE---TNG----EPEX	0	1
GME_CNOR - GME_CORS	CNOR-CNOR----GME	CORS-CORS----GME	0	1
EXAA_ALDE - NP_ALDE	ALDE-ALDE---EXAA	ALDE-ALDE----NP	0	1
EPEX_SE4 - NP_SE4	SE4--SE4----EPEX	SE4--SE4-----NP	0	1
EPEX_FR - EXAA_AMP	FR---FR----EPEX	DE---AMP----EXAA	0	1
NP_TNG - NP_AT	DE---TNG-----NP	AT---AT-----NP	0	1
EXAA_AT - EPEX_AT	AT---AT----EXAA	AT---AT----EPEX	0	1
GME_SUD - GME_GREC	SUD--SUD----GME	GREC-GREC----GME	0	1
NP_TTG - NP_NL	DE---TTG-----NP	NL---NL-----NP	0	1
EPEX_AT - GME_BSP	AT---AT----EPEX	BSP--BSP----GME	0	1
EPEX_ALBE - EPEX_ALDE	ALBE-ALBE---EPEX	ALDE-ALDE---EPEX	0	1
NP_BE - NP_FR	BE---BE-----NP	FR---FR-----NP	0	1
NP_NO3 - NP_SE2	NO3--NO3-----NP	SE2--SE2-----NP	0	1
NP_AMP - NP_ALDE	DE---AMP-----NP	ALDE-ALDE----NP	0	1
EPEX_NL - EPEX_NO2	NL---NL----EPEX	NO2--NO2----EPEX	0	1
NP_PLC - NP_SE4	PLC--PLC-----NP	SE4--SE4-----NP	0	1
NP_SE1 - NP_NO4	SE1--SE1-----NP	NO4--NO4-----NP	0	1
EPEX_NO1A - EPEX_NO1	NO1A-NO1A---EPEX	NO1--NO1----EPEX	0	1
NP_DK1A - NP_DK1	DK1A-DK1A----NP	DK1--DK1-----NP	0	1
EXAA_50Hz - EXAA_AMP	DE---50Hz---EXAA	DE---AMP----EXAA	0	1
EPEX_PLC - NP_PLC	PLC--PLC----EPEX	PLC--PLC-----NP	0	1
NP_FI - NP_SE1	FI---FI-----NP	SE1--SE1-----NP	0	1
EPEX_DK1 - NP_DK1	DK1--DK1----EPEX	DK1--DK1-----NP	0	1
EXAA_AMP - EXAA_TNG	DE---AMP----EXAA	DE---TNG----EXAA	0	1
EXAA_TTG - EXAA_TNG	DE---TTG----EXAA	DE---TNG----EXAA	0	1
GME_AUST - GME_NORD	AUST-AUST----GME	NORD-NORD----GME	0	1
GME_SUD - GME_CALA	SUD--SUD----GME	CALA-CALA----GME	0	1
EPEX_SE2 - NP_SE2	SE2--SE2----EPEX	SE2--SE2-----NP	0	1
EPEX_TTG - NP_TTG	DE---TTG----EPEX	DE---TTG-----NP	0	1
EPEX_FR - GME_FRAN	FR---FR----EPEX	FRAN-FRAN----GME	0	1
EPEX_TTG - EPEX_AT	DE---TTG----EPEX	AT---AT----EPEX	0	1
NP_FR - NP_AMP	FR---FR-----NP	DE---AMP-----NP	0	1
EPEX_NO2-EPEX_TTG	NO2--NO2----EPEX	DE---TTG----EPEX	0	1
EPEX_NL - EPEX_BE	NL---NL----EPEX	BE---BE----EPEX	0	1
NP_NL - NP_NO2	NL---NL-----NP	NO2--NO2-----NP	0	1

NP_ALBE - NP_ALDE	ALBE-ALBE-----NP	ALDE-ALDE-----NP	0	1
NP_NO4 - NP_SE2	NO4--NO4-----NP	SE2--SE2-----NP	0	1
EPEX_PLC-EPEX_SE4	PLC--PLC----EPEX	SE4--SE4----EPEX	0	1
OMIE_ES - EPEX_FR	ES---ES-----OMIE	FR---FR-----EPEX	0	1
EPEX_SE1 - EPEX_SE2	SE1--SE1----EPEX	SE2--SE2----EPEX	0	1
NP_LV - NP_LRE	LV---LV-----NP	LRE--LRE-----NP	0	1
NP_NO1A - NP_NO5	NO1A-NO1A-----NP	NO5--NO5-----NP	0	1
TGE_PLC - NP_PLC	PLC--PLC----TGE	PLC--PLC-----NP	0	1
EPEX_PL - TGE_PL	PL---PL-----EPEX	PL---PL-----TGE	0	1
NP_DK1A - NP_SE3	DK1A-DK1A-----NP	SE3--SE3-----NP	0	1
EPEX_NO1 - NP_NO1	NO1--NO1----EPEX	NO1--NO1-----NP	0	1
EPEX_BE - NP_BE	BE---BE-----EPEX	BE---BE-----NP	0	1
EXAA_50Hz - NP_50Hz	DE---50Hz---EXAA	DE---50Hz-----NP	0	1
NP_50Hz - NP_TTG	DE---50Hz-----NP	DE---TTG-----NP	0	1
GME_CSUD - GME_SUD	CSUD-CSUD----GME	SUD--SUD----GME	0	1
NP_FR - EXAA_AMP	FR---FR-----NP	DE---AMP----EXAA	0	1
EPEX_TNG - EPEX_AT	DE---TNG----EPEX	AT---AT-----EPEX	0	1
GME_CSUD-GME_MONT	CSUD-CSUD----GME	MONT-MONT----GME	0	1
EPEX_50Hz - EXAA_50Hz	DE---50Hz---EPEX	DE---50Hz---EXAA	0	1
EPEX_TNG - NP_TNG	DE---TNG----EPEX	DE---TNG-----NP	0	1
EXAA_AMP - NP_NL	DE---AMP----EXAA	NL---NL-----NP	0	1
EXAA_TTG - NP_NL	DE---TTG----EXAA	NL---NL-----NP	0	1
GME_BSP - CROPEX_HR	BSP--BSP----GME	HR---HR---CROPEX	0	1
EPEX_AT - GME_AUST	AT---AT-----EPEX	AUST-AUST----GME	0	1
NP_SE3 - NP_SE4	SE3--SE3-----NP	SE4--SE4-----NP	0	1
NP_DK1A - NP_NO2	DK1A-DK1A-----NP	NO2--NO2-----NP	0	1
NP_NO3 - NP_NO5	NO3--NO3-----NP	NO5--NO5-----NP	0	1
NP_FI - NP_NO4	FI---FI-----NP	NO4--NO4-----NP	0	1
EPEX_NO1 - EPEX_NO3	NO1--NO1----EPEX	NO3--NO3----EPEX	0	1
EXAA_AMP - EXAA_ALDE	DE---AMP----EXAA	ALDE-ALDE---EXAA	0	1
EPEX_NO1A - EPEX_NO5	NO1A-NO1A---EPEX	NO5--NO5----EPEX	0	1
NP_PL - TGE_PL	PL---PL-----NP	PL---PL-----TGE	0	1
HENEX_GREE - NP_BG	GREE-GREE--HENEX	BG---BG-----NP	0	1
EPEX_DK2 - EPEX_SE4	DK2--DK2----EPEX	SE4--SE4----EPEX	0	1
EPEX_NO1A - NP_NO1A	NO1A-NO1A---EPEX	NO1A-NO1A-----NP	0	1
NP_LBE - NP_LT	LBE--LBE-----NP	LT---LT-----NP	0	1
EPEX_AMP - EXAA_AMP	DE---AMP----EPEX	DE---AMP----EXAA	0	1
EPEX_NL - NP_NL	NL---NL-----EPEX	NL---NL-----NP	0	1
NP_AMP - NP_TNG	DE---AMP-----NP	DE---TNG-----NP	0	1
NP_AMP - EPEX_AMP	DE---AMP-----NP	DE---AMP----EPEX	0	1
GME_SVIZ - GME_NORD	SVIZ-SVIZ----GME	NORD-NORD----GME	0	1
GME_CNOR - GME_CSUD	CNOR-CNOR----GME	CSUD-CSUD----GME	0	1
EXAA_TTG - EXAA_AT	DE---TTG----EXAA	AT---AT-----EXAA	0	1
EPEX_FR - EPEX_AMP	FR---FR-----EPEX	DE---AMP----EPEX	0	1
EPEX_AMP - EPEX_TNG	DE---AMP----EPEX	DE---TNG----EPEX	0	1

EXAA_TTG - EPEX_NL	DE---TTG----EXAA	NL---NL-----EPEX	0	1
GME_SARD - GME_CSUD	SARD-SARD----GME	CSUD-CSUD----GME	0	1
EPEX_AMP - EPEX_ALDE	DE---AMP----EPEX	ALDE-ALDE---EPEX	0	1
EPEX_BE - EPEX_FR	BE---BE-----EPEX	FR---FR-----EPEX	0	1
EPEX_DK1A - EPEX_NO2	DK1A-DK1A---EPEX	NO2--NO2----EPEX	0	1
EPEX_NO3 - EPEX_NO5	NO3--NO3----EPEX	NO5--NO5----EPEX	0	1
EPEX_NO3 - EPEX_SE2	NO3--NO3----EPEX	SE2--SE2----EPEX	0	1
NP_EE - NP_LV	EE---EE-----NP	LV---LV-----NP	0	1
OMIE_ES - OMIE_PT	ES---ES-----OMIE	PT---PT-----OMIE	0	1
NP_NO1 - NP_NO3	NO1--NO1-----NP	NO3--NO3-----NP	0	1
EPEX_SE1 - EPEX_NO4	SE1--SE1----EPEX	NO4--NO4----EPEX	0	1
EPEX_DK1A - EPEX_DK1	DK1A-DK1A---EPEX	DK1--DK1----EPEX	0	1
NP_NO1A - NP_NO1	NO1A-NO1A----NP	NO1--NO1-----NP	0	1
EPEX_PLC - OKTE_SLVK	PLC--PLC----EPEX	SK---SK-----OKTE	0	1
EX_DEA2_EPEX_DEA2	DEA2-DEA2---EXAA	DEA2-DEA2---EPEX	0	1
HUPX_HU-EXAA_AT	HU---HU-----HUPX	AT---AT-----EXAA	0	1
OTE_CZEC-OKTE_SLVK	CZ---CZ-----OTE	SK---SK-----OKTE	0	1
TGE_PLC - OKTE_SLVK	PLC--PLC----TGE	SK---SK-----OKTE	0	1
OTE_CZ-NP_TTG	CZ---CZ-----OTE	DE---TTG-----NP	0	1
OTE_CZ-EPEX_DEA2	CZ---CZ-----OTE	DEA2-DEA2---EPEX	0	1
HUPX_HU-EPEX_AT	HU---HU-----HUPX	AT---AT-----EPEX	0	1
EX_DEA2-EX_50HZ	DEA2-DEA2---EXAA	DE---50Hz---EXAA	0	1
NP_PLC- OKTE_SLVK	PLC--PLC-----NP	SK---SK-----OKTE	0	1
OTE_CZ - EXAA_DEA2	CZ---CZ-----OTE	DEA2-DEA2---EXAA	0	1
OTE_CZ-EXAA_TTG	CZ---CZ-----OTE	DE---TTG---EXAA	0	1
HUPX_HU-NP_AT	HU---HU-----HUPX	AT---AT-----NP	0	1
OTE_CZ-EPEX_TTG	CZ---CZ-----OTE	DE---TTG---EPEX	0	1
OTE_CZ - NP_DEA2	CZ---CZ-----OTE	DEA2-DEA2----NP	0	1
EPEX_DEA2-EPEX_50HZ	DEA2-DEA2---EPEX	DE---50Hz---EPEX	0	1
NP_DEA2-NP_50HZ	DEA2-DEA2----NP	DE---50Hz-----NP	0	1
NP_DEA2-EPEX_DEA2	DEA2-DEA2----NP	DEA2-DEA2---EPEX	0	1
NP_AT-OTE_CZ	AT---AT-----NP	CZ---CZ-----OTE	0	1
EPEX_PLC-EPEX_DEA2	PLC--PLC----EPEX	DEA2-DEA2---EPEX	0	1
NP_DEA2_EX_DEA2	DEA2-DEA2----NP	DEA2-DEA2---EXAA	0	1
EXAA_AT-OTE_CZ	AT---AT-----EXAA	CZ---CZ-----OTE	0	1
NP_PLC-NP_DEA2	PLC--PLC-----NP	DEA2-DEA2----NP	0	1
EPEX_AT-OTE_CZ	AT---AT-----EPEX	CZ---CZ-----OTE	0	1
NP_PLC - OTE_CZEC	PLC--PLC-----NP	CZ---CZ-----OTE	0	1
TGE_PLC - OTE_CZEC	PLC--PLC----TGE	CZ---CZ-----OTE	0	1
EPEX_PLC - OTE_CZEC	PLC--PLC----EPEX	CZ---CZ-----OTE	0	1
OKTE_SLVK-HUPX_HU	SK---SK-----OKTE	HU---HU-----HUPX	0	1
HUPX_HU-OPCOM_RO	HU---HU-----HUPX	RO---RO----OPCOM	0	1