

Substation 1	Substation 2		Windmill Current (per unit)							Dynamic SW rating (MVA)		Electrical Parameters			TSD Short-circuit power (MW)	Comments		
	Line	Line	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8	Phase 9	Phase 10	Phase 11	Phase 12				
Grid-Substation 380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Grid-Substation 380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Marbach-Hof-Qua-380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Marbach-Hof-Qua-380 kV 2	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Grünau-Mengen-380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Grünau-Mengen-380 kV 2	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Marbach-Hof-Qua-380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Marbach-Hof-Qua-380 kV 2	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Dieb-Mehren-380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Dieb-Mehren-380 kV 2	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Drahtschon-Neudorf-380 kV	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)
Drahtschon-Neudorf-380 kV 2	107-DE-AL-00010	107-DE-AL-00010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	To be in DC (GND)

Location		Description
Name of RA	TSO	
TOP_2N_Lelystad	TENNET NL	Opening of busbar coupler in 380kV substation Lelystad (Normal operation: one-node)
TOP_2N_Ens	TENNET NL	Opening of busbar coupler in 380kV substation Ens (Normal operation: one-node)
TOP_2N_Doetinchem	TENNET NL	Opening of busbar coupler in 380kV substation Doetinchem (Normal operation: one-node)
TOP_2N_Hengelo	TENNET NL	Opening of busbar coupler in 380kV substation Hengelo (Normal operation: one-node)
TOP_2N_Geertruidenberg	TENNET NL	Opening of busbar coupler in 380kV substation Geertruidenberg (Normal operation: one-node)
TOP_2N_Diemen	TENNET NL	Opening of busbar coupler in 380kV substation Diemen (Normal operation: one-node)
TOP_2N_Eindhoven	TENNET NL	Opening of busbar coupler in 380kV substation Eindhoven (Normal operation: one-node)
TOP_2N_Zwolle	TENNET NL	Opening of busbar coupler in 380kV substation Zwolle (Normal operation: one-node)
TOP_2N_1_Maasbracht	TENNET NL	Opening of busbar coupler 1 in 380kV substation Maasbracht (Normal operation: one-node)
TOP_2N_2_Maasbracht	TENNET NL	Opening of busbar coupler 2 in 380kV substation Maasbracht (Normal operation: one-node)
TOP_2N_Krimpen	TENNET NL	Opening of busbar coupler in 380kV substation Krimpen a/d IJssel (Normal operation: one-node)
TOP_2N_Rilland	TENNET NL	Opening of busbar coupler in 380kV substation Rilland (Normal operation: one-node)
PST_Meeden_W	TENNET NL	Change of tap position of phase shifting transformer in 380kV substation Meeden
PST_Meeden_Z	TENNET NL	Change of tap position of phase shifting transformer in 380kV substation Meeden