

Reasons:

R4 Overload (also calculated break)

R5 False operation

R6 Failure in protection device or other element

R7 Outside impacts (animals, trees, fire, avalanches,...)

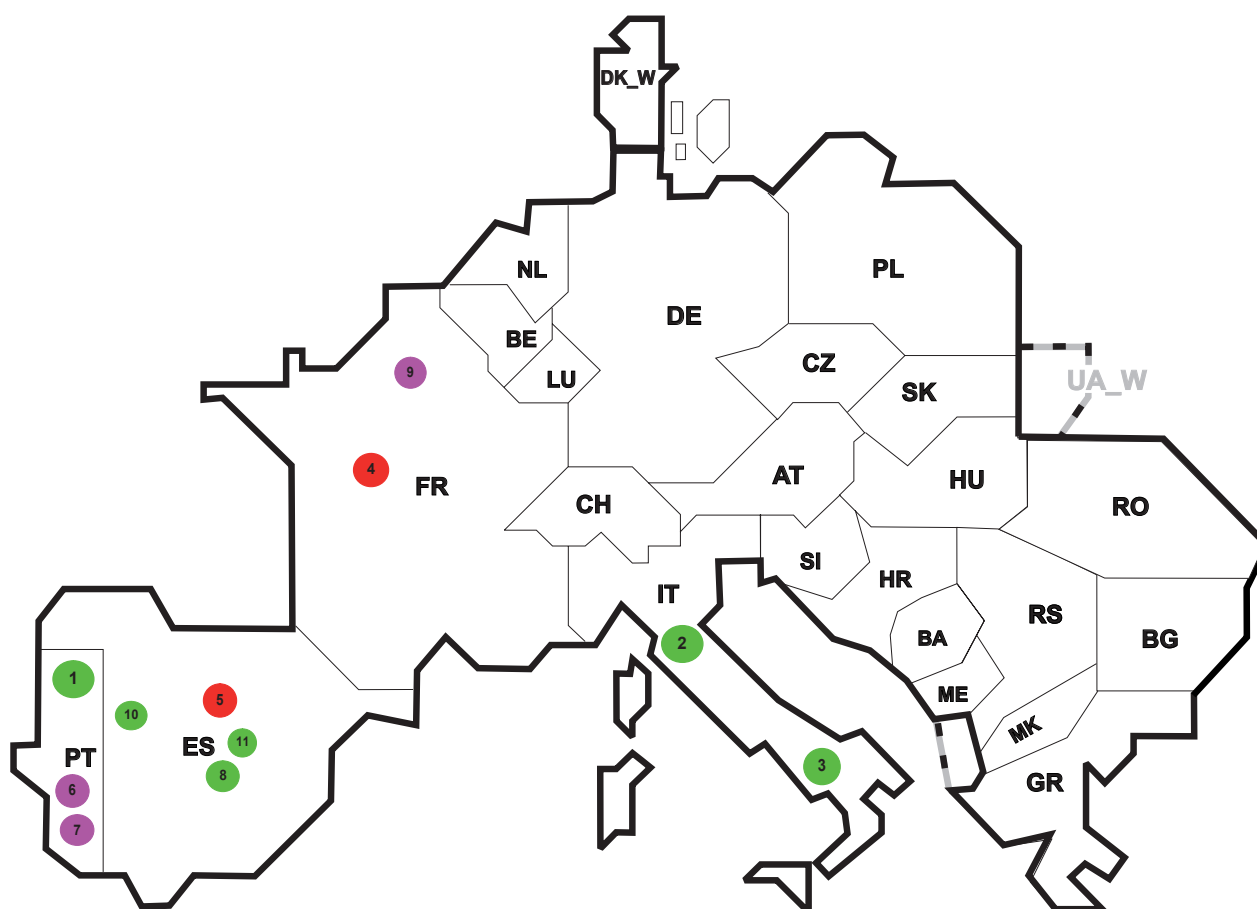
R8 Very exceptional conditions (weather, natural disaster, ...)

R9 Other reasons

R10 Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	DE	Hanekenfähr	R9	6456	1300	298	6,07
2	DE	Gersteinwerk	R10	1082	580	112	1,02
3	CZ	Nosovice	R6	28	372	5	0,24
4	SK	Krizovany	R7	9	188	3	0,17
5	PL	Morzyczyn	R10	26	12	130	0,10
6	DE	Frimmersdorf	R9	37	130	17	0,03
7	FR	Buttes Chaumont	R9	6	30	12	0,01
8	FR	Port Jerome	R5	4	4	52	0,00
9	SI	Bericevo	R10	0	0	111	0,00

¹ (year [in min] * energy not supplied) / consumption last 12 months

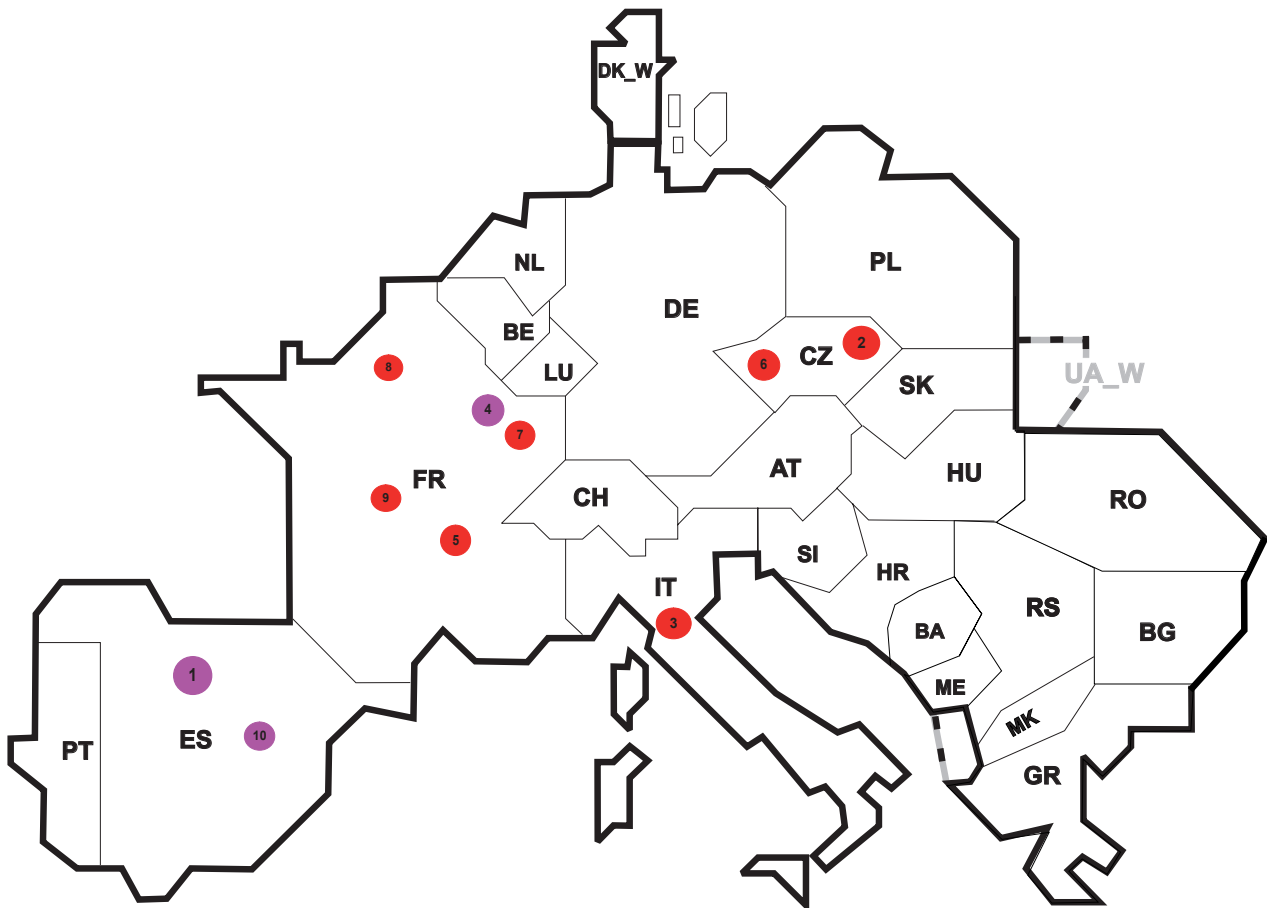


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Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	PT	Torro	R7	9	0	6	0,09
2	IT	Suvereto	R8	55	200	18	0,09
3	IT	Maddaloni	R8	37	17	130	0,06
4	FR	Eguzon	R6	19	18	129	0,02
5	ES	Sanchinarro	R5	5	0	10	0,01
6	PT	Paramo	R10	1	0	2	0,01
7	PT	Mogadouro	R10	0	0	4	0,01
8	ES	Majadahonda	R8	2	0	14	0,00
9	FR	Fallou	R10	2	50	6	0,00
10	ES	Caceres	R8	1	0	8	0,00
11	ES	Aena	R7	1	0	2	0,00

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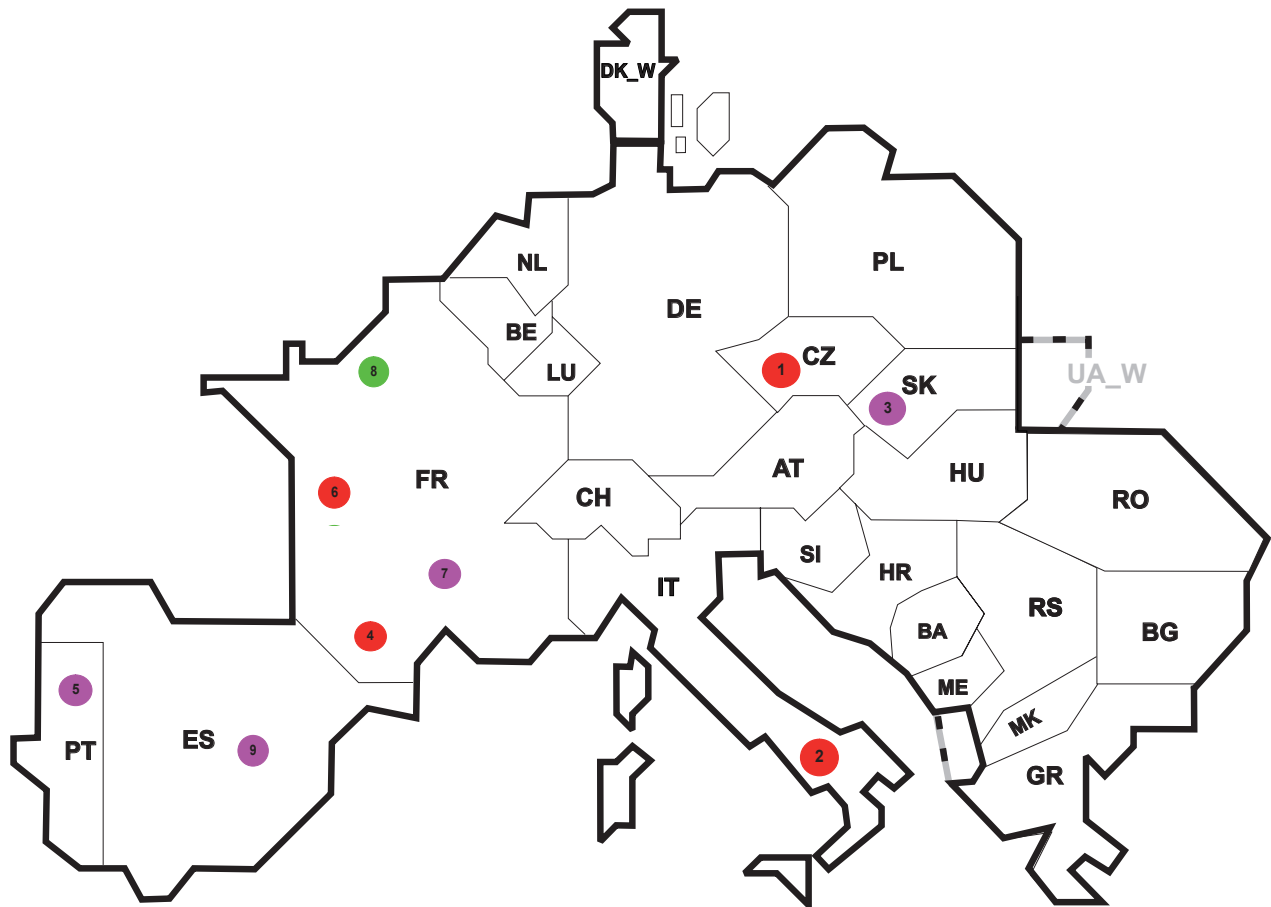
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Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	ES	Magallon	R10	900	0	2	1,81
2	CZ	Krasikov	R6	21	160	8	0,18
3	IT	Marcaria	R6	105	10	636	0,16
4	FR	St.Avoid	R9	123	143	56	0,14
5	FR	Allinges	R6	117	79	90	0,13
6	CZ	Cechy Stred	R5	10	35	17	0,08
7	FR	Halles	R5	10	111	8	0,01
8	FR	Nanterre	R6	6	100	7	0,01
9	FR	Loges	R6	5	15	20	0,01
10	ES	Oncala	R10	0	900	12	0,00

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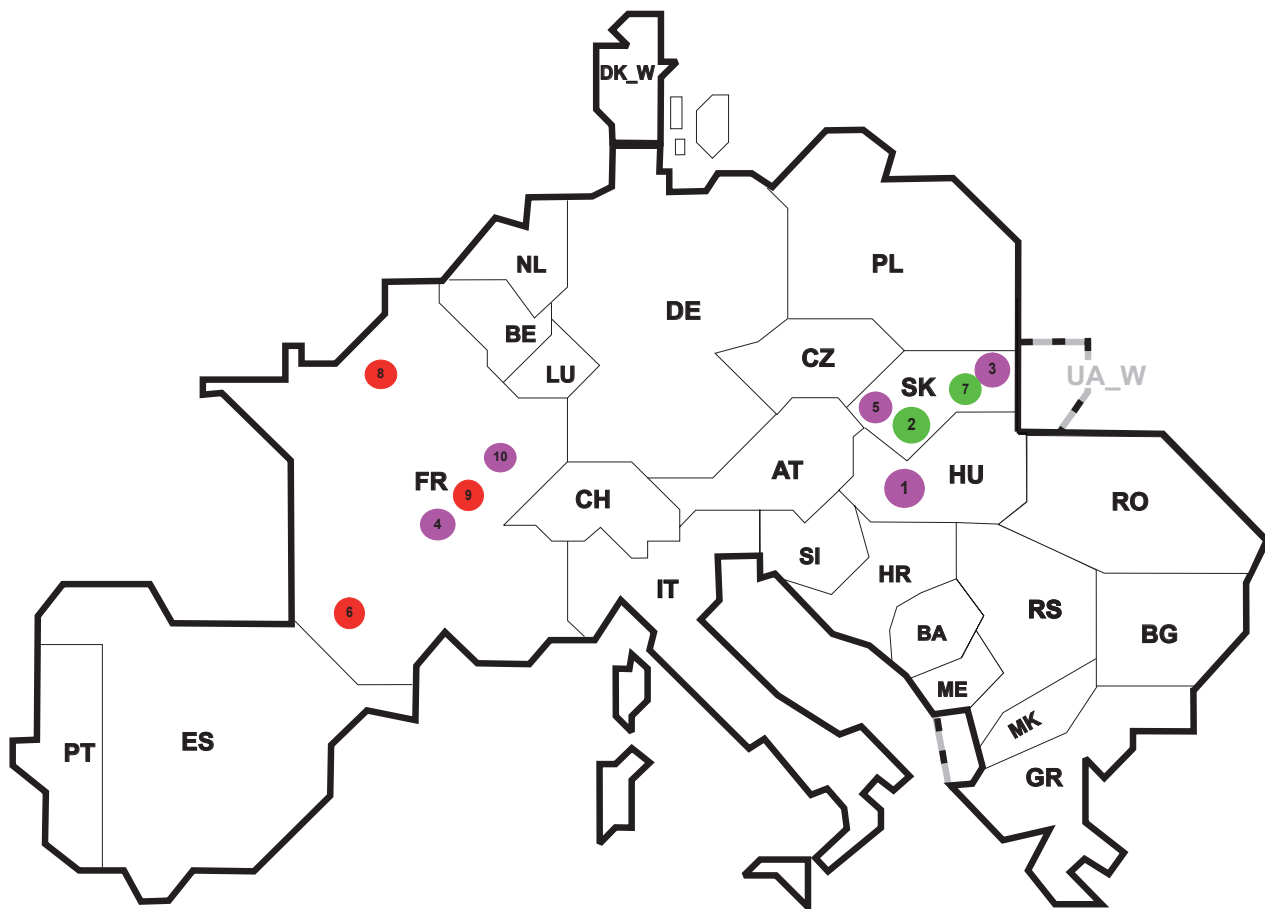
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1	CZ	Bezdecin	R6	68	150	27	0,56
2	IT	Maddaloni	R6	309	23	1026	0,48
3	SK	Sp. N. Ves	R9	5	95	3	0,09
4	FR	Issel	R6	54	58	55	0,06
5	PT	Subestao do Ferro	R9	2	0	3	0,02
6	FR	Montguyon	R6	18	33	33	0,02
7	FR	Givors	R9	9	21	25	0,01
8	FR	Mezerolles	R8	4	44	6	0,005
9	ES	La Plana	R10	1	0	3	0,001

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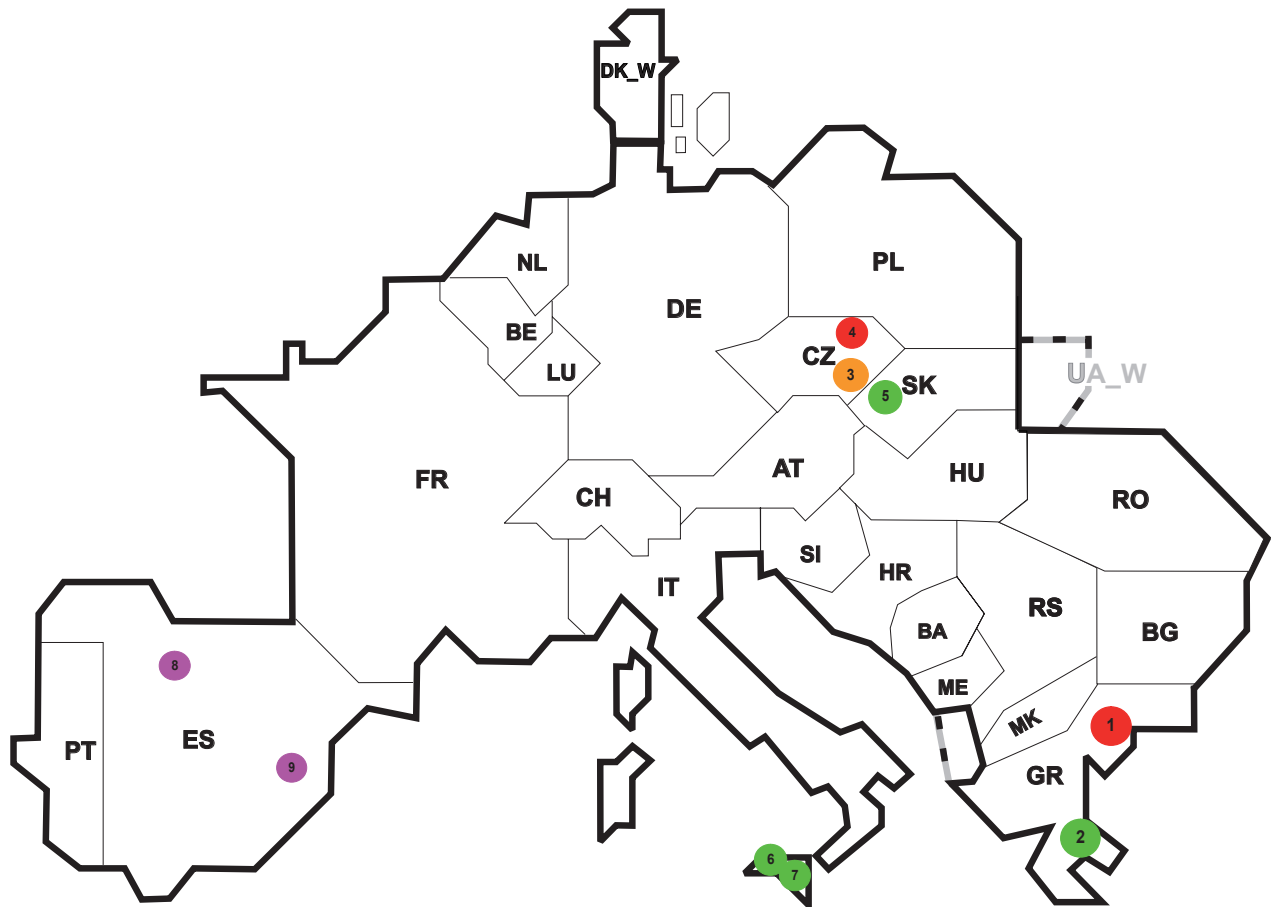
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1	HU	Sajszged	R9	145	220	39	1,88
2	SK	Sucany	R7	42	86	29	0,81
3	SK	Varin	R9	22	30	43	0,43
4	FR	Grosne	R10	199	62	194	0,22
5	SK	Moldava	R9	6	87	4	0,11
6	FR	Colayac	R5	94	141	40	0,11
7	SK	Sp. N. Ves	R7	4	20	13	0,08
8	FR	La Corbiere	R6	57	37	92	0,06
9	FR	Commerveil	R5	13	70	11	0,01
10	FR	Guengnon	R10	10	73	8	0,01

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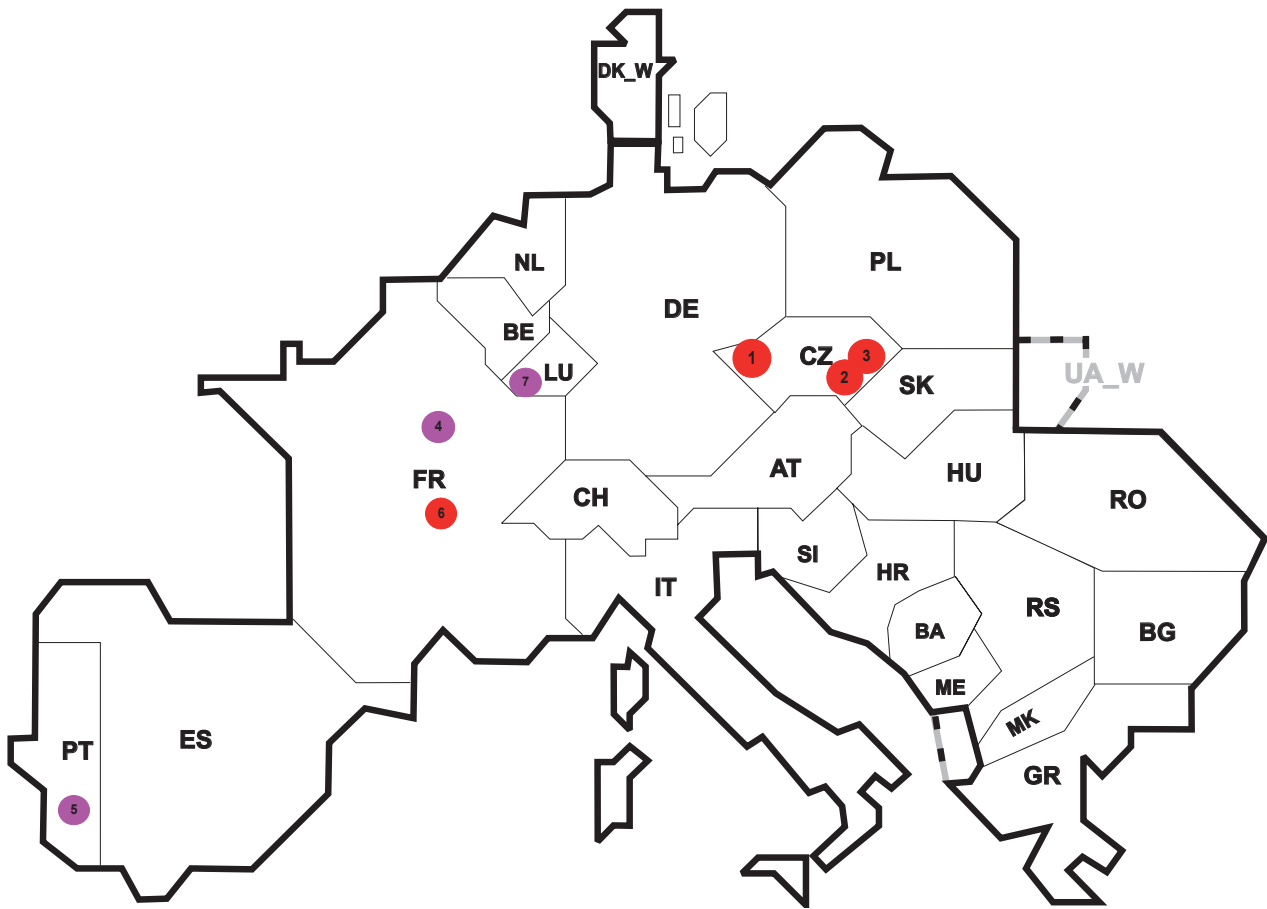
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1	GR	Thessaloniki	R6	750	830	30	7,25
2	GR	Koumoundourou	R7	512	980	15	4,95
3	CZ	Tynec	R4	240	32	8	2,00
4	CZ	Krasikov	R6	130	217	10	1,08
5	SK	Sucany	R7	40	84	29	0,79
6	IT	Partinico	R7	385	360	65	0,60
7	IT	Caracoli	R7	359	230	96	0,56
8	ES	Mudarra	R10	1	0	70	0,002
9	ES	San Agustin	R10	1	0	75	0,002

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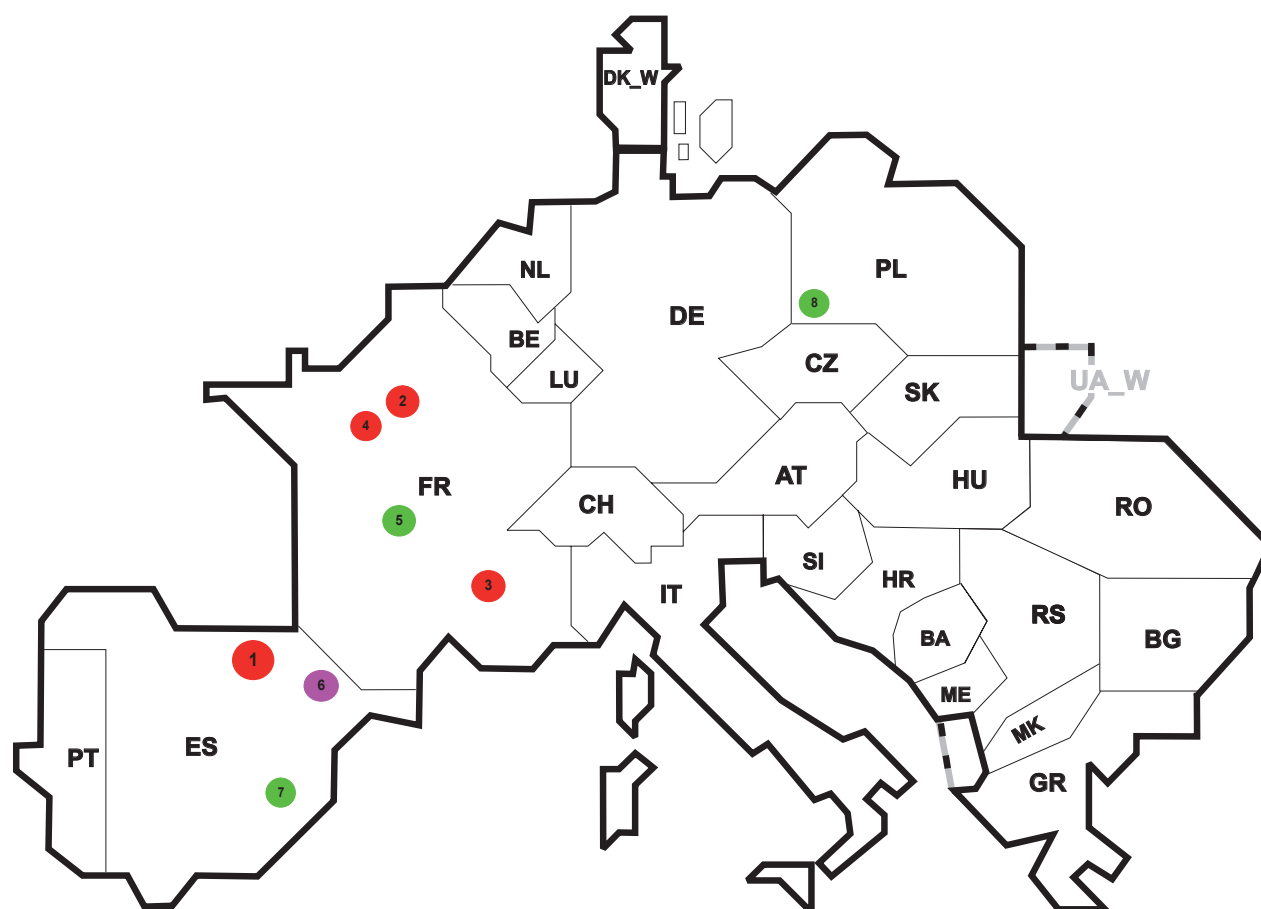
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1	CZ	Cechy Stred	R6	230	1342	35	1,91
2	CZ	Sokolnice	R6	80	8	6	0,66
3	CZ	Slavetice	R6	43	29	4	0,36
4	FR	Les Arpents	R10	64	42	92	0,07
5	PT	Custoias	R9	6	0	4	0,06
6	FR	Ampere	R6	21	31	40	0,02
7	LU	Roost	R10	0	29	2	0,02

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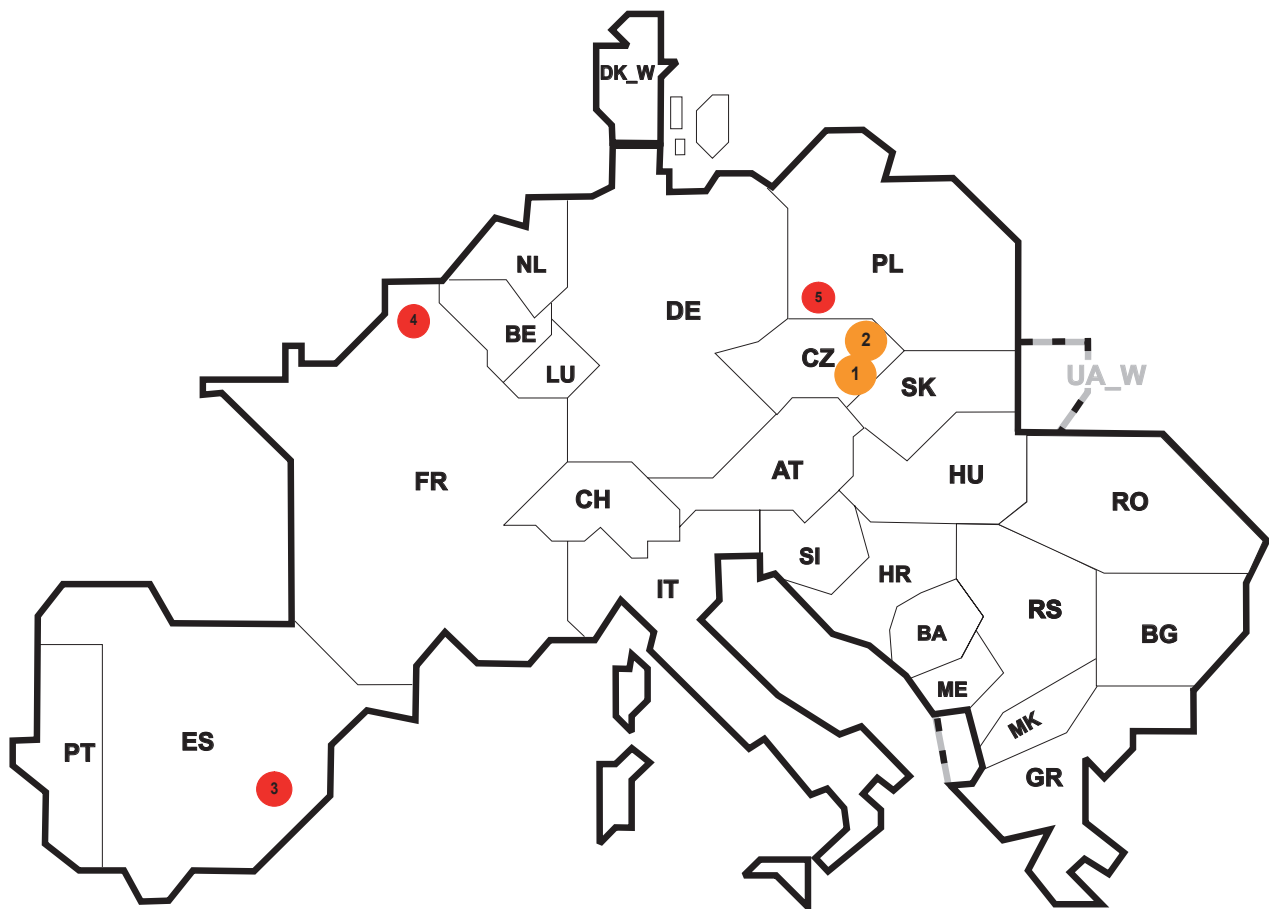
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1	ES	Vitoria	R6	21	0	12	0,04
2	FR	Villejust	R6	20	62	20	0,02
3	FR	Pariset	R6	9	42	13	0,01
4	FR	Cergy	R6	2	23	4	0,002
5	FR	Malintrat	R7	2	3	30	0,002
6	ES	Cinca	R10	1	0	8	0,002
7	ES	San Agustin	R8	1	0	12	0,002
8	PL	Mikulowa	R7	0	668	244	0,000

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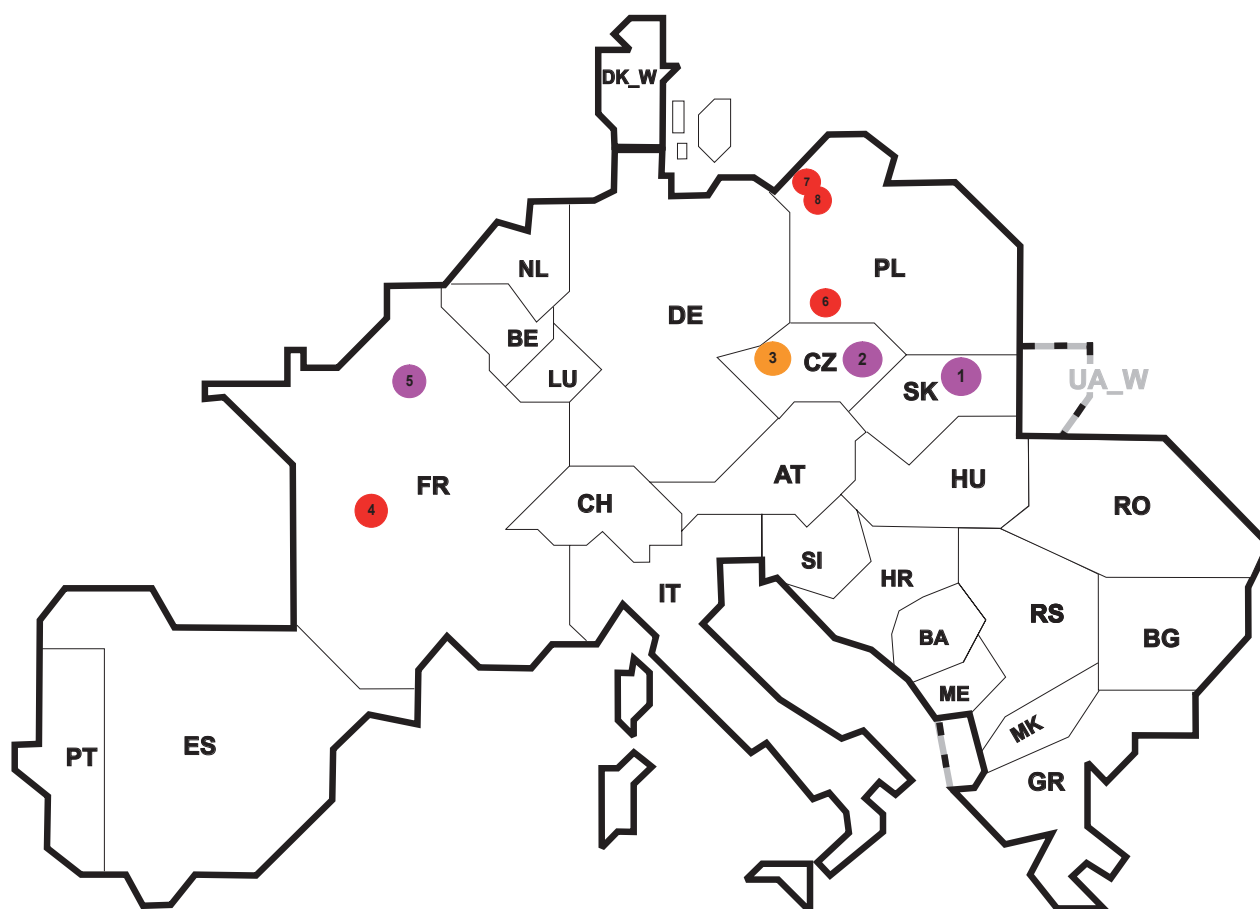
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1	CZ	Otrokovice	R4	289	29	6	2,39
2	CZ	Cebin	R4	105	9	5	0,87
3	ES	Hospitalet	R5	16	0	15	0,03
4	FR	Vendin	R5	4	41	6	0,004
5	PL	Mikulowa	R5	0	246	19	0,00

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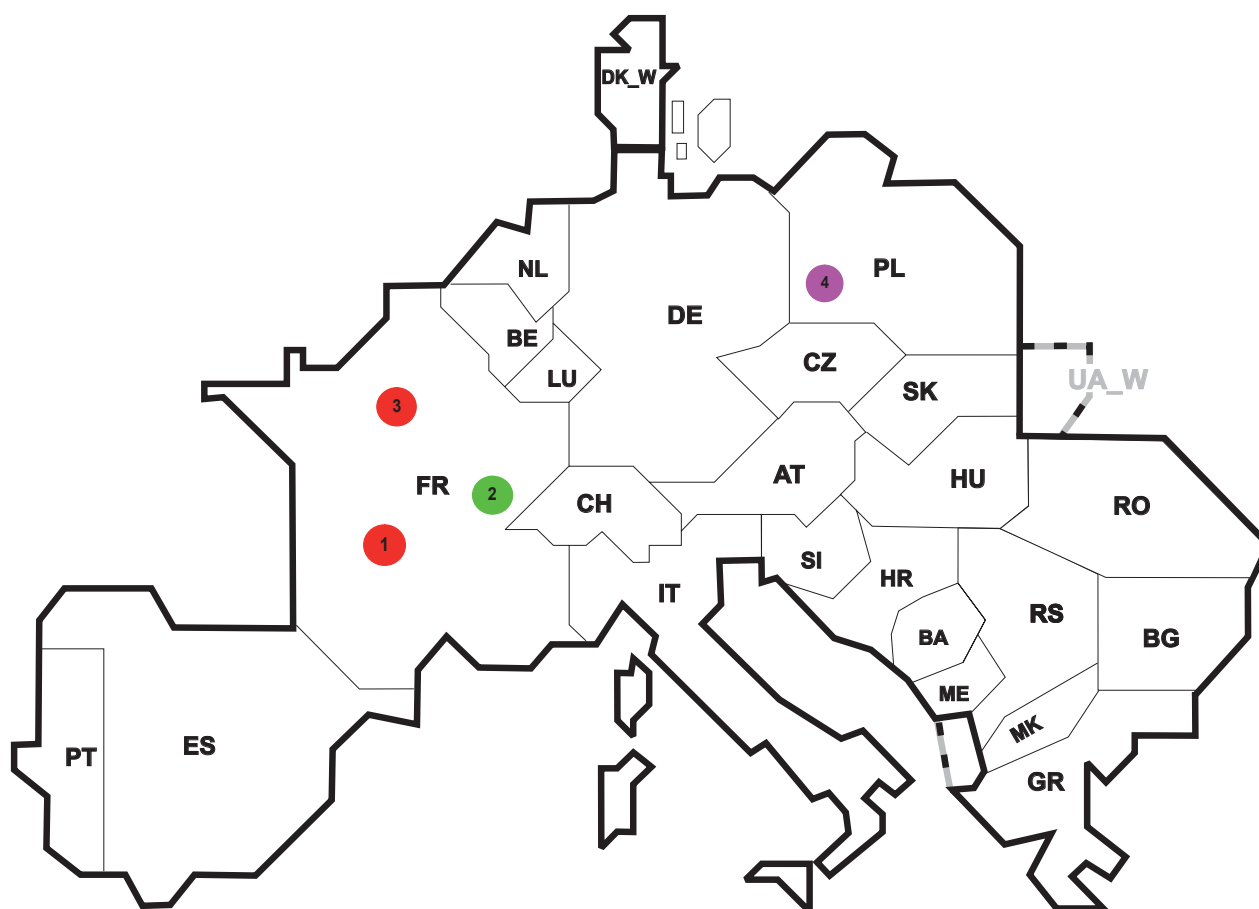
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Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	SK	Sucany	R9	25	135	11	0,48
2	CZ	Otrokovice	R9	21	206	6	0,17
3	CZ	Chotejovice	R4	3	17	10	0,02
4	FR	Marmagne	R6	11	28	23	0,01
5	FR	Buttes Chaumont	R9	4	46	5	0,004
6	PL	Patnow	R5	0	302	78	0,00
7	PL	Krajnik	R6	0	150	50	0,00
8	PL	Krajnik	R6	0	113	43	0,00

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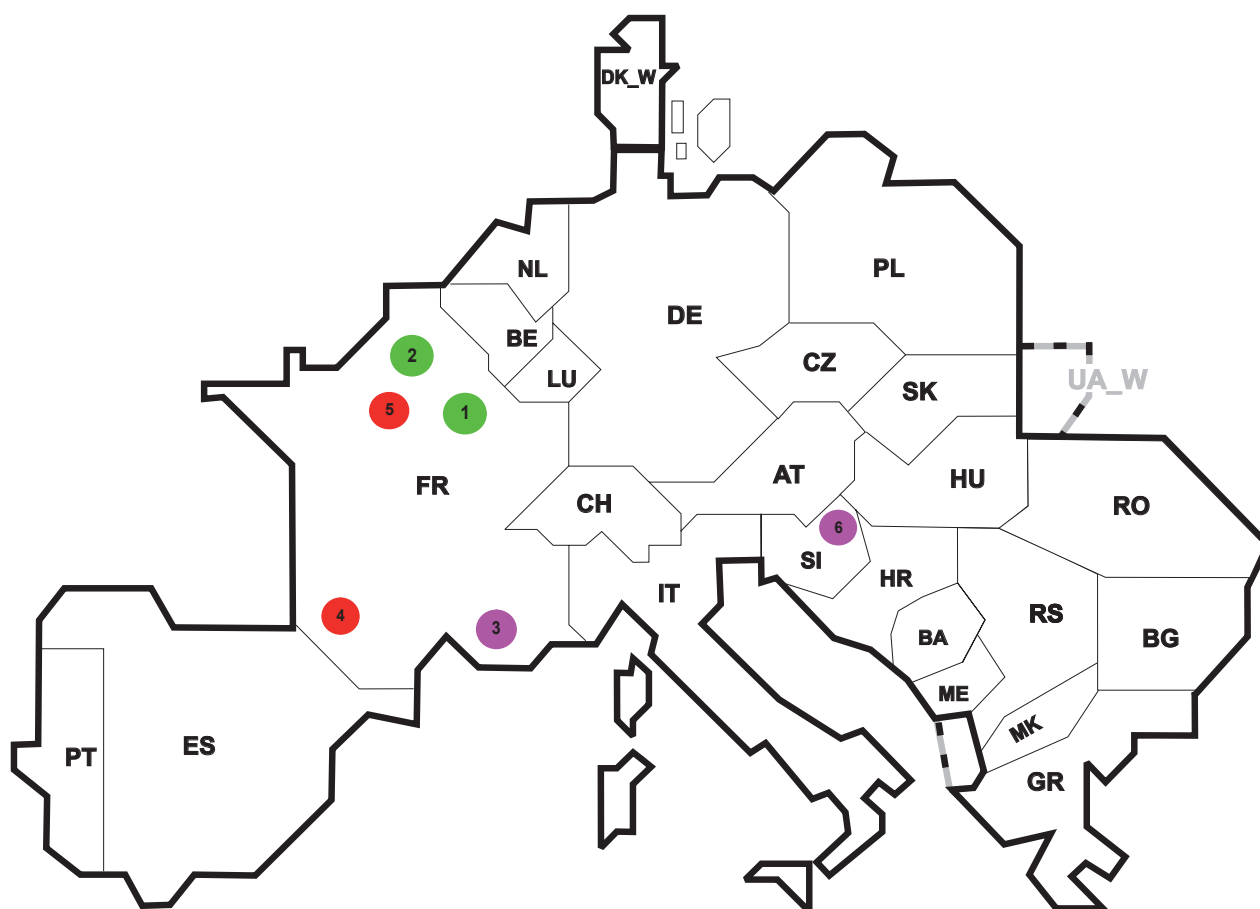
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1	FR	Grezilac	R6	10	16	37	0,01
2	FR	Riddes	R8	6	12	32	0,01
3	FR	Carrieres	R5	2	25	4	0,002
4	PL	Patnow	R9	0	362	1	0,00

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1	FR	Mambelin	R8	26	3	516	0,03
2	FR	Bonnières	R7	13	59	13	0,01
3	FR	Aubette	R9	11	36	19	0,01
4	FR	Verlhaguet	R6	3	7	30	0,00
5	FR	Cergy	R6	2	46	3	0,00
6	SI	Bericevo	R10	0	0	241	0,00

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