

Table 10: Results data-aggregation process: partition subsets (1st Step) and bases (2nd step) - **Ramping and Network**

Length (# hours)	# Subsets 1st Step	# Bases 2nd Step	Obj. Fun. Avg. 1st Step	Sum Obj. Fun. 1st Step
1	6359	5	7 605	48 357 493
2	1	1	34 766	34 766
3	187	14	23 014	4 303 551
4	138	11	41 310	5 700 762
5	78	14	44 772	3 492 246
6	43	10	42 636	1 833 334
7	12	4	60 204	722 451
8	3	3	196 640	589 920
10	6	6	173 451	1 040 704
11	2	2	216 351	432 702
12	10	7	313 328	3 133 276
13	2	2	497 029	994 057
14	4	4	350 200	1 400 800
16	1	1	363 891	363 891
21	1	1	187 416	187 416
27	2	2	365 204	730 408
35	1	1	442 165	442 165
43	1	1	1 784 384	1 784 384
53	1	1	507 930	507 930
Total (# of subsets times sum of obj. fun. avg.)				76 052 255

Table 11: Results data-aggregation process: energy production from aggregated model - **Ramping and Network**

Length (# hours)	# Subsets 2nd Step	Wind MWh	Thermal MWh	NSP MWh
1	5	859 332	1 894 902	-
2	1	20	1 314	1
3	14	90 688	159 852	33
4	11	77 964	128 987	470
5	14	59 573	92 670	214
6	10	58 952	66 055	11
7	4	13 611	28 212	-
8	3	4 367	7 615	79
10	6	6 013	15 419	130
11	2	311	7 269	51
12	7	13 144	36 414	443
13	2	699	10 248	149
14	4	1 098	20 634	180
16	1	505	6 207	43
21	1	846	3 575	20
27	2	1 641	24 541	27
35	1	998	16 259	9
43	1	527	16 429	277
53	1	2 951	18 631	10
Total		1 193 240	2 555 233	2 147