Table S1: model validation

Time	Electricity Demand			Renewable Energy Power Generation			Renewable Energy Power Generation		
(Month)	SV	TV	Error	SV	TV	Error	SV	TV	Error
0	7,521,400,000			206,414,000			470,078,000		
1	7,564,270,000			205,588,000			468,198,000		
2	7,607,390,000			204,766,000			466,325,000		
3	7,650,750,000			203,947,000			464,459,000		
4	7,694,360,000			203,131,000			462,602,000		
5	7,738,220,000			202,319,000			460,751,000		
6	7,782,330,000			201,509,000			458,908,000		
7	7,826,680,000			200,703,000			457,073,000		
8	7,871,300,000			199,900,000			455,244,000		
9	7,916,160,000			199,101,000			453,423,000		
10	7,961,290,000			198,304,000			451,610,000		
11	8,006,660,000			197,511,000			449,803,000		
12	8,052,300,000	8,310,000,000	3.10%	196,721,000	2,480,000,000	2,413,500,000	2.76%	448,004,000	6,020,000,000	5,496,400,000	8.70%
13	8,098,200,000			200,625,000			451,283,000		
14	8,144,360,000			204,553,000			454,572,000		
15	8,190,780,000			207,760,000			458,465,000		
16	8,237,470,000			210,349,000			462,989,000		
17	8,284,420,000			213,107,000			467,351,000		
18	8,331,650,000			216,054,000			471,540,000		
19	8,379,140,000			219,180,000			475,577,000		
20	8,426,900,000			222,478,000			479,474,000		
21	8,474,930,000			225,943,000			483,245,000		
22	8,523,240,000			229,569,000			486,900,000		
23	8,571,820,000			233,348,000			490,450,000		
24	8,620,680,000	8,600,000,000	0.24%	237,274,000	2,677,700,000	2,620,240,000	2.15%	493,906,000	6,016,100,000	5,675,752,000	5.66%
25	8,669,820,000			241,341,000			497,277,000		
26	8,719,240,000			245,505,000			500,588,000		
27	8,768,930,000			249,917,000			503,744,000		
28	8,818,920,000			254,510,000			506,800,000		
29	8,869,190,000			258,703,000			510,128,000		
30	8,919,740,000			261,713,000			514,399,000		
31	8,970,580,000			264,518,000			518,878,000		
32	9,021,710,000			267,417,000			523,286,000		
33	9,073,140,000			270,505,000			527,525,000		
34	9,124,850,000			273,793,000			531,625,000		
35	9176,870,000			277,269,000			535,512,000		
36	9,229,170,000	9,220,000,000	0.10%	280,914,000	3,000,000,000	3,146,105,000	4.87%	539,506,000	6,456,500,000	6,209,268,000	3.83%