

## Supplementary materials

**Table S1.** Annual usable energy demand for heating  $EU_H$  [kWh/(m<sup>2</sup> · year)] for the adopted building in six energy classes and 59 locations in Poland.

No	Location	Climate zone	Annual usable energy demand for heating $EU_H$ [kWh/(m <sup>2</sup> · year)]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
1	Białystok	4	16.54	21.89	34.73	26.56	32.45	46.02
2	Bielsko-Biała	3	9.97	13.95	24.24	17.68	22.44	33.81
3	Bydgoszcz	2	11.04	15.55	26.92	19.70	24.90	37.25
4	Chojnice	2	14.30	19.30	31.80	23.85	29.58	42.92
5	Częstochowa	3	12.20	16.56	27.38	20.50	25.49	37.25
6	Elbląg	2	13.29	18.10	30.14	22.48	28.00	40.94
7	Gdańsk	1	8.94	12.89	22.90	16.57	21.17	32.19
8	Gorzów Wielk.	2	10.70	14.86	25.43	18.72	23.56	35.00
9	Hel	1	10.04	14.20	24.77	18.07	22.93	34.59
10	Jelenia Góra	3	10.86	19.77	26.17	19.13	29.50	36.41
11	Kalisz	2	11.96	16.57	28.04	20.75	26.03	38.48
12	Katowice	3	12.22	16.73	27.61	20.70	25.73	37.51
13	Kętrzyn	4	16.84	22.02	34.35	26.49	32.17	45.36
14	Kielce	3	12.80	17.58	29.21	21.81	27.16	39.71
15	Kłodzko	3	11.20	15.52	26.54	19.53	24.60	36.64
16	Koło	2	9.50	13.58	23.81	17.32	22.03	33.24
17	Kołobrzeg	1	8.36	12.21	22.65	16.03	20.79	32.17
18	Koszalin	1	11.28	15.61	26.70	19.66	24.74	36.73
19	Kraków	3	11.76	16.29	27.26	20.30	25.35	32.12
20	Krosno	3	12.03	16.57	28.05	20.74	25.99	38.17
21	Legnica	2	8.80	12.60	22.31	16.16	20.63	31.34
22	Lesko	4	9.02	12.92	22.91	16.57	21.18	32.24
23	Leszno	2	12.22	16.96	28.83	21.29	26.72	39.47
24	Lębork	1	10.83	15.26	26.42	19.34	24.44	36.57
25	Lublin	3	14.41	19.27	30.96	23.53	28.90	41.31
26	Łeba	1	12.53	17.07	28.32	21.17	26.34	38.52
27	Łódź	3	10.69	15.06	26.20	19.13	24.24	36.25
28	Mikołajki	4	14.84	19.79	32.24	24.31	30.04	43.49
29	Mława	3	14.08	19.01	31.06	23.41	28.93	41.76
30	Nowy Sącz	3	7.82	11.80	22.06	15.57	20.27	31.53
31	Olsztyn	4	15.28	20.59	33.77	25.39	31.42	45.30
32	Opole	3	9.13	12.96	22.78	16.54	21.07	31.82
33	Ostrołęka	3	13.22	18.28	30.53	22.75	28.37	41.40
34	Piła	2	11.99	16.39	26.98	20.26	25.14	36.58
35	Płock	3	12.60	17.07	27.92	21.02	26.02	32.75
36	Poznań	2	11.37	15.97	27.38	20.15	25.37	37.48
37	Przemyśl	3	13.75	18.53	30.26	22.79	28.18	40.74
38	Racibórz	3	8.98	12.85	22.83	16.49	21.07	32.05
39	Resko	1	10.67	14.59	24.55	18.22	22.82	33.81
40	Rzeszów	3	12.18	17.03	29.05	21.42	26.91	39.73
41	Sandomierz	3	10.31	14.61	25.45	18.58	23.54	35.28

No	Location	Climate zone	Annual usable energy demand for heating $EU_H$ [kWh/(m <sup>2</sup> · year)]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
42	Siedlce	4	14.18	19.16	31.31	23.58	29.15	42.15
43	Słubice	2	9.23	13.06	22.62	16.55	20.96	31.38
44	Sulejów	2	11.39	15.93	27.26	20.07	25.27	37.51
45	Suwałki	5	19.79	25.62	39.46	30.64	36.99	51.50
46	Szczecin	1	8.85	12.83	23.12	16.61	21.32	32.55
47	Szczecinek	1	11.02	15.39	26.50	19.43	24.54	36.67
48	Świnoujście	1	7.92	11.55	20.99	15.01	19.35	35.48
49	Tarnów	3	9.51	13.24	31.08	16.63	20.90	31.12
50	Terespol	4	14.35	19.09	30.64	23.28	28.59	40.84
51	Toruń	3	11.89	16.45	27.94	20.65	25.90	38.23
52	Ustka	1	10.31	14.54	25.47	18.53	23.54	35.49
53	Warszawa	3	14.43	15.26	26.32	19.28	24.36	36.43
54	Wieluń	2	11.39	15.50	25.85	19.25	24.05	35.48
55	Włodawa	3	15.28	20.23	32.07	24.53	29.99	42.65
56	Wrocław	2	10.56	14.86	25.62	18.79	23.74	35.53
57	Zakopane	5	12.70	18.08	31.64	23.03	29.24	43.72
58	Zamość	3	12.92	17.82	30.10	22.28	27.92	41.10
59	Zielona Góra	2	11.33	15.95	27.32	20.12	25.33	37.37

**Table S2.** Annual final energy demand  $EK$  [kWh/(m<sup>2</sup> · year)] for a A1 energy class building.

No	Location	Climate zone	Annual final energy demand $EK$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EK_H$	Hot utility water $EK_W$	Auxiliaries	Total final energy demand $EK$
1	Białystok	4	5.69	15.42	13.99	35.11
2	Bielsko-Biała	3	3.43	15.42	13.87	32.72
3	Bydgoszcz	2	3.80	15.42	14.05	33.27
4	Chojnice	2	4.92	15.42	14.09	34.43
5	Częstochowa	3	4.20	15.42	13.92	33.54
6	Elbląg	2	4.57	15.42	14.04	34.04
7	Gdańsk	1	3.08	15.42	13.98	32.48
8	Gorzów Wielk.	2	3.68	15.42	14.00	33.10
9	Hel	1	3.46	15.42	14.00	32.87
10	Jelenia Góra	3	3.74	15.42	13.94	33.10
11	Kalisz	2	4.11	15.42	14.00	33.54
12	Katowice	3	4.20	15.42	13.93	33.56
13	Kętrzyn	4	5.79	15.42	14.02	35.23
14	Kielce	3	4.40	15.42	14.01	33.83
15	Kłodzko	3	3.85	15.42	13.93	33.21
16	Koło	2	3.27	15.42	13.94	32.63
17	Kołobrzeg	1	2.87	15.42	13.98	32.28
18	Koszalin	1	3.88	15.42	14.00	33.30
19	Kraków	3	4.05	15.42	13.95	33.41

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
20	Krosno	3	4.14	15.42	13.96	33.52
21	Legnica	2	3.03	15.42	13.92	32.37
22	Lesko	4	3.10	15.42	13.86	32.39
23	Leszno	2	4.20	15.42	14.04	33.67
24	Lębork	1	3.73	15.42	14.03	33.18
25	Lublin	3	4.96	15.42	13.99	34.37
26	Łeba	1	4.31	15.42	14.01	33.74
27	Łódź	3	3.68	15.42	14.01	33.11
28	Mikołajki	4	5.10	15.42	14.03	34.55
29	Mława	3	4.84	15.42	14.07	34.34
30	Nowy Sącz	3	2.69	15.42	13.97	32.08
31	Olsztyn	4	5.25	15.42	14.15	34.83
32	Opole	3	3.14	15.42	13.87	32.44
33	Ostrołęka	3	4.55	15.42	14.13	34.10
34	Piła	2	4.13	15.42	13.96	33.51
35	Płock	3	4.33	15.42	13.96	33.72
36	Poznań	2	3.91	15.42	14.04	33.37
37	Przemyśl	3	4.73	15.42	13.97	34.12
38	Racibórz	3	3.09	15.42	13.86	32.37
39	Resko	1	3.67	15.42	13.88	32.97
40	Rzeszów	3	4.19	15.42	14.02	33.63
41	Sandomierz	3	3.55	15.42	13.96	32.93
42	Siedlce	4	4.88	15.42	14.04	34.34
43	Słubice	2	3.18	15.42	13.88	32.48
44	Sulejów	2	3.92	15.42	14.01	33.35
45	Suwałki	5	6.81	15.42	13.92	36.15
46	Szczecin	1	3.04	15.42	13.99	32.46
47	Szczecinek	1	3.79	15.42	14.02	33.24
48	Świnoujście	1	2.72	15.42	13.88	32.03
49	Tarnów	3	3.27	15.42	13.79	32.48
50	Terespol	4	4.94	15.42	13.98	34.34
51	Toruń	3	4.09	15.42	14.05	33.56
52	Ustka	1	3.55	15.42	14.01	32.98
53	Warszawa	3	4.96	15.42	13.96	34.34
54	Wieluń	2	3.92	15.42	13.87	33.21
55	Włodawa	3	5.26	15.42	13.99	34.67
56	Wrocław	2	3.63	15.42	13.96	33.01
57	Zakopane	5	4.37	15.42	14.15	33.94
58	Zamość	3	4.45	15.42	14.05	33.91
59	Zielona Góra	2	3.90	15.42	14.08	33.40

**Table S3.** Annual final energy demand  $E_K$  [kWh/(m<sup>2</sup> · year)] for a A2 energy class building.

No	Location	Climate zone	Annual final energy demand EK [kWh/(m <sup>2</sup> · year)]			
			Heating $EK_H$	Hot utility water $EK_W$	Auxiliaries	Total final energy demand EK
1	Białystok	4	7.53	15.42	10.71	33.66
2	Bielsko-Biała	3	4.80	15.42	10.54	30.76
3	Bydgoszcz	2	5.35	15.42	10.72	31.49
4	Chojnice	2	6.64	15.42	10.77	32.83
5	Częstochowa	3	5.70	15.42	10.55	31.67
6	Elbląg	2	6.23	15.42	10.72	32.37
7	Gdańsk	1	4.43	15.42	10.62	30.47
8	Gorzów Wielk.	2	5.11	15.42	10.65	31.19
9	Hel	1	4.89	15.42	10.65	30.96
10	Jelenia Góra	3	6.80	15.42	10.79	33.01
11	Kalisz	2	5.70	15.42	10.64	31.77
12	Katowice	3	5.75	15.42	10.54	31.72
13	Kętrzyn	4	7.57	15.42	10.65	33.64
14	Kielce	3	6.05	15.42	10.63	32.10
15	Kłodzko	3	5.34	15.42	10.59	31.35
16	Koło	2	4.67	15.42	10.57	30.66
17	Kołobrzeg	1	4.20	15.42	10.79	30.41
18	Koszalin	1	5.37	15.42	10.49	31.28
19	Kraków	3	5.60	15.42	10.55	31.57
20	Krosno	3	5.70	15.42	10.61	31.73
21	Legnica	2	4.33	15.42	10.55	30.30
22	Lesko	4	4.45	15.42	10.51	30.38
23	Leszno	2	5.84	15.42	10.73	31.98
24	Lębork	1	5.25	15.42	10.68	31.35
25	Lublin	3	6.63	15.42	10.61	32.66
26	Łeba	1	5.87	15.42	10.67	31.96
27	Łódź	3	5.18	15.42	10.65	31.26
28	Mikołajki	4	6.81	15.42	10.74	32.97
29	Mława	3	6.54	15.42	10.69	32.65
30	Nowy Sącz	3	4.06	15.42	10.66	30.14
31	Olsztyn	4	7.08	15.42	10.79	33.29
32	Opole	3	4.46	15.42	10.52	30.40
33	Ostrołęka	3	6.29	15.42	10.72	32.43
34	Piła	2	5.64	15.42	10.57	31.63
35	Płock	3	5.87	15.42	10.58	31.88
36	Poznań	2	5.49	15.42	10.65	31.56
37	Przemyśl	3	6.37	15.42	10.58	32.38
38	Racibórz	3	4.42	15.42	10.51	30.36
39	Resko	1	5.02	15.42	10.54	30.98
40	Rzeszów	3	5.86	15.42	10.65	31.94
41	Sandomierz	3	5.03	15.42	10.59	31.04
42	Siedlce	4	6.59	15.42	10.69	32.70
43	Słubice	2	4.49	15.42	10.50	30.41

No	Location	Climate zone	Annual final energy demand EK [kWh/(m <sup>2</sup> · year)]			
			Heating <i>EK<sub>H</sub></i>	Hot utility water <i>EK<sub>W</sub></i>	Auxiliaries	Total final energy demand EK
44	Sulejów	2	5.48	15.42	10.65	31.56
45	Suwałki	5	8.81	15.42	10.74	34.97
46	Szczecin	1	4.41	15.42	10.67	30.50
47	Szczecinek	1	5.29	15.42	10.71	31.42
48	Świnoujście	1	3.97	15.42	10.53	29.92
49	Tarnów	3	4.55	15.42	10.40	30.37
50	Terespol	4	6.57	15.42	10.59	32.58
51	Toruń	3	5.66	15.42	10.70	31.78
52	Ustka	1	5.00	15.42	10.72	31.15
53	Warszawa	3	5.25	15.42	10.65	31.32
54	Wieluń	2	5.33	15.42	10.52	31.28
55	Włodawa	3	6.96	15.42	10.60	32.99
56	Wrocław	2	5.11	15.42	10.59	31.13
57	Zakopane	5	6.22	15.42	10.78	32.42
58	Zamość	3	6.13	15.42	10.69	32.24
59	Zielona Góra	2	5.49	15.42	10.66	31.57

**Table S4.** Annual final energy demand EK [kWh/(m<sup>2</sup> · year)] for a A3 energy class building.

No	Location	Climate zone	Annual final energy demand EK [kWh/(m <sup>2</sup> · year)]			
			Heating <i>EK<sub>H</sub></i>	Hot utility water <i>EK<sub>W</sub></i>	Auxiliaries	Total final energy demand EK
1	Białystok	4	11.95	15.42	2.98	30.35
2	Bielsko-Biała	3	8.34	15.42	2.95	26.71
3	Bydgoszcz	2	9.26	15.42	3.00	27.69
4	Chojnice	2	10.94	15.42	3.03	29.40
5	Częstochowa	3	9.42	15.42	2.87	27.71
6	Elbląg	2	10.37	15.42	2.97	28.77
7	Gdańsk	1	7.88	15.42	2.92	26.22
8	Gorzów Wielk.	2	8.75	15.42	2.93	27.10
9	Hel	1	8.52	15.42	2.97	26.91
10	Jelenia Góra	3	9.00	15.42	2.99	27.41
11	Kalisz	2	9.65	15.42	2.94	28.01
12	Katowice	3	9.50	15.42	2.86	27.79
13	Kętrzyn	4	11.82	15.42	2.94	30.18
14	Kielce	3	10.05	15.42	2.93	28.40
15	Kłodzko	3	9.13	15.42	2.91	27.46
16	Koło	2	8.19	15.42	2.86	26.48
17	Kołobrzeg	1	7.79	15.42	2.99	26.20
18	Koszalin	1	9.19	15.42	2.97	27.58
19	Kraków	3	9.38	15.42	2.86	27.66

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
20	Krosno	3	9.65	15.42	2.84	27.91
21	Legnica	2	7.68	15.42	2.89	25.99
22	Lesko	4	7.88	15.42	2.88	26.18
23	Leszno	2	9.92	15.42	2.97	28.30
24	Lębork	1	9.09	15.42	2.96	27.47
25	Lublin	3	10.65	15.42	2.87	28.94
26	Łeba	1	9.74	15.42	2.96	28.13
27	Łódź	3	9.01	15.42	2.93	27.37
28	Mikołajki	4	11.09	15.42	3.01	29.53
29	Mława	3	10.68	15.42	2.98	29.08
30	Nowy Sącz	3	7.59	15.42	2.86	25.87
31	Olsztyn	4	11.62	15.42	3.02	30.06
32	Opole	3	7.84	15.42	2.83	26.09
33	Ostrołęka	3	10.50	15.42	3.00	28.93
34	Piła	2	9.28	15.42	2.89	27.59
35	Płock	3	9.61	15.42	2.89	27.92
36	Poznań	2	9.42	15.42	2.88	27.73
37	Przemyśl	3	10.41	15.42	2.84	28.67
38	Racibórz	3	7.85	15.42	2.82	26.10
39	Resko	1	8.45	15.42	2.92	26.79
40	Rzeszów	3	9.99	15.42	2.88	28.30
41	Sandomierz	3	8.75	15.42	2.86	27.04
42	Siedlce	4	10.77	15.42	2.97	29.16
43	Słubice	2	7.78	15.42	2.82	26.03
44	Sulejów	2	9.38	15.42	2.95	27.75
45	Suwałki	5	13.57	15.42	2.99	31.99
46	Szczecin	1	7.95	15.42	2.94	26.32
47	Szczecinek	1	9.11	15.42	3.00	27.54
48	Świnoujście	1	7.22	15.42	2.88	25.52
49	Tarnów	3	10.69	15.42	2.74	28.85
50	Terespol	4	10.54	15.42	2.85	28.81
51	Toruń	3	9.61	15.42	2.96	27.99
52	Ustka	1	8.76	15.42	3.01	27.20
53	Warszawa	3	9.05	15.42	2.96	27.44
54	Wieluń	2	8.89	15.42	2.91	27.22
55	Włodawa	3	11.03	15.42	2.89	29.34
56	Wrocław	2	8.81	15.42	2.92	27.15
57	Zakopane	5	10.89	15.42	3.05	29.35
58	Zamość	3	10.35	15.42	2.97	28.75
59	Zielona Góra	2	9.40	15.42	2.90	27.72

**Table S5.** Annual final energy demand  $E_K$  [kWh/(m<sup>2</sup> · year)] for a B1 energy class building.

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
1	Białystok	4	9.13	15.42	14.33	38.89
2	Bielsko-Biała	3	6.08	15.42	14.22	35.73
3	Bydgoszcz	2	6.78	15.42	14.37	36.57
4	Chojnice	2	8.20	15.42	14.39	38.02
5	Częstochowa	3	7.05	15.42	14.22	36.69
6	Elbląg	2	7.73	15.42	14.34	37.50
7	Gdańsk	1	5.70	15.42	14.27	35.40
8	Gorzów Wielk.	2	6.44	15.42	14.28	36.14
9	Hel	1	6.21	15.42	14.33	35.96
10	Jelenia Góra	3	6.58	15.42	14.35	36.35
11	Kalisz	2	7.14	15.42	14.30	36.86
12	Katowice	3	7.12	15.42	14.21	36.75
13	Kętrzyn	4	9.11	15.42	14.29	38.82
14	Kielce	3	7.50	15.42	14.28	37.20
15	Kłodzko	3	6.72	15.42	14.25	36.39
16	Koło	2	5.96	15.42	14.22	35.60
17	Kołobrzeg	1	5.51	15.42	14.35	35.29
18	Koszalin	1	6.76	15.42	14.34	36.53
19	Kraków	3	6.98	15.42	14.21	36.61
20	Krosno	3	7.13	15.42	14.19	36.75
21	Legnica	2	5.56	15.42	14.23	35.21
22	Lesko	4	5.70	15.42	14.20	35.33
23	Leszno	2	7.32	15.42	14.33	37.08
24	Lębork	1	6.65	15.42	14.33	36.40
25	Lublin	3	8.09	15.42	14.23	37.74
26	Łeba	1	7.28	15.42	14.32	37.03
27	Łódź	3	6.58	15.42	14.28	36.28
28	Mikołajki	4	8.36	15.42	14.37	38.15
29	Mława	3	8.05	15.42	14.32	37.79
30	Nowy Sącz	3	5.36	15.42	14.22	35.00
31	Olsztyn	4	8.73	15.42	14.38	38.53
32	Opole	3	5.69	15.42	14.19	35.30
33	Ostrołęka	3	7.82	15.42	14.35	37.60
34	Piła	2	6.97	15.42	14.23	36.62
35	Płock	3	7.23	15.42	14.24	36.90
36	Poznań	2	6.93	15.42	14.24	36.59
37	Przemyśl	3	7.84	15.42	14.20	37.46
38	Racibórz	3	5.67	15.42	14.18	35.27
39	Resko	1	6.27	15.42	14.27	35.96
40	Rzeszów	3	7.37	15.42	14.24	37.03
41	Sandomierz	3	6.39	15.42	14.22	36.03
42	Siedlce	4	8.11	15.42	14.31	37.85
43	Słubice	2	5.69	15.42	14.16	35.27

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
44	Sulejów	2	6.91	15.42	14.30	36.62
45	Suwałki	5	10.54	15.42	14.36	40.32
46	Szczecin	1	5.71	15.42	14.29	35.42
47	Szczecinek	1	6.68	15.42	14.36	36.46
48	Świnoujście	1	5.16	15.42	14.23	34.82
49	Tarnów	3	5.72	15.42	14.07	35.21
50	Terespol	4	8.01	15.42	14.21	37.64
51	Toruń	3	7.10	15.42	14.33	36.86
52	Ustka	1	6.37	15.42	14.37	36.16
53	Warszawa	3	6.63	15.42	14.33	36.39
54	Wieluń	2	6.62	15.42	14.24	36.29
55	Włodawa	3	8.44	15.42	14.24	38.10
56	Wrocław	2	6.46	15.42	14.27	36.15
57	Zakopane	5	7.92	15.42	14.40	37.75
58	Zamość	3	7.66	15.42	14.34	37.42
59	Zielona Góra	2	6.92	15.42	14.26	36.60

**Table S6.** Annual final energy demand  $E_K$  [kWh/(m<sup>2</sup> · year)] for a B2 energy class building.

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
1	Białystok	4	11.16	15.42	10.90	37.48
2	Bielsko-Biała	3	7.72	15.42	10.82	33.96
3	Bydgoszcz	2	8.57	15.42	10.93	34.92
4	Chojnice	2	10.18	15.42	10.97	36.57
5	Częstochowa	3	8.77	15.42	10.82	35.01
6	Elbląg	2	9.63	15.42	10.89	35.95
7	Gdańsk	1	7.28	15.42	10.85	33.55
8	Gorzów Wielk.	2	8.10	15.42	10.86	34.39
9	Hel	1	7.89	15.42	10.90	34.21
10	Jelenia Góra	3	10.15	15.42	10.97	36.54
11	Kalisz	2	8.96	15.42	10.85	35.23
12	Katowice	3	8.85	15.42	10.81	35.08
13	Kętrzyn	4	11.07	15.42	10.85	37.33
14	Kielce	3	9.34	15.42	10.86	35.62
15	Kłodzko	3	8.46	15.42	10.86	34.74
16	Koło	2	7.58	15.42	10.80	33.80
17	Kołobrzeg	1	7.15	15.42	10.91	33.48
18	Koszalin	1	8.51	15.42	10.89	34.82
19	Kraków	3	8.72	15.42	10.80	34.94



No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
20	Krosno	3	8.94	15.42	10.77	35.14
21	Legnica	2	7.10	15.42	10.83	33.35
22	Lesko	4	7.29	15.42	10.83	33.53
23	Leszno	2	9.19	15.42	10.88	35.49
24	Lębork	1	8.41	15.42	10.89	34.72
25	Lublin	3	9.94	15.42	10.81	36.17
26	Łeba	1	9.06	15.42	10.89	35.38
27	Łódź	3	8.34	15.42	10.87	34.63
28	Mikołajki	4	10.33	15.42	10.96	36.71
29	Mława	3	9.95	15.42	10.90	36.28
30	Nowy Sącz	3	6.97	15.42	10.80	33.20
31	Olsztyn	4	10.81	15.42	10.94	37.17
32	Opole	3	7.25	15.42	10.77	33.44
33	Ostrołęka	3	9.76	15.42	10.92	36.10
34	Piła	2	8.65	15.42	10.83	34.90
35	Płock	3	8.95	15.42	10.84	35.21
36	Poznań	2	8.73	15.42	10.82	34.97
37	Przemyśl	3	9.69	15.42	10.77	35.89
38	Racibórz	3	7.25	15.42	10.76	33.43
39	Resko	1	7.85	15.42	10.85	34.12
40	Rzeszów	3	9.26	15.42	10.82	35.50
41	Sandomierz	3	8.10	15.42	10.80	34.33
42	Siedlce	4	10.03	15.42	10.88	36.33
43	Słubice	2	7.21	15.42	10.79	33.42
44	Sulejów	2	8.69	15.42	10.88	34.99
45	Suwałki	5	12.72	15.42	10.91	39.05
46	Szczecin	1	7.33	15.42	10.86	33.61
47	Szczecinek	1	8.44	15.42	10.94	34.80
48	Świnoujście	1	6.66	15.42	10.82	32.90
49	Tarnów	3	7.19	15.42	10.72	33.33
50	Terespol	4	9.83	15.42	10.79	36.05
51	Toruń	3	8.91	15.42	10.87	35.20
52	Ustka	1	8.10	15.42	10.95	34.47
53	Warszawa	3	8.38	15.42	10.88	34.68
54	Wieluń	2	8.27	15.42	10.84	34.53
55	Włodawa	3	10.31	15.42	10.83	36.57
56	Wrocław	2	8.17	15.42	10.84	34.43
57	Zakopane	5	10.06	15.42	10.99	36.47
58	Zamość	3	9.60	15.42	10.89	35.92
59	Zielona Góra	2	8.71	15.42	10.84	34.98

**Table S7.** Annual final energy demand  $E_K$  [kWh/(m<sup>2</sup> · year)] for a B3 energy class building.

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
1	Białystok	4	15.83	15.42	3.11	34.37
2	Bielsko-Biała	3	11.63	15.42	3.01	30.06
3	Bydgoszcz	2	12.82	15.42	3.17	31.40
4	Chojnice	2	14.76	15.42	3.23	33.41
5	Częstochowa	3	12.81	15.42	3.01	31.25
6	Elbląg	2	14.08	15.42	3.12	32.62
7	Gdańsk	1	11.07	15.42	3.09	29.58
8	Gorzów Wielk.	2	12.04	15.42	3.07	30.53
9	Hel	1	11.90	15.42	3.18	30.50
10	Jelenia Góra	3	12.52	15.42	3.16	31.11
11	Kalisz	2	13.24	15.42	3.06	31.72
12	Katowice	3	12.90	15.42	3.01	31.34
13	Kętrzyn	4	15.60	15.42	3.04	34.06
14	Kielce	3	13.66	15.42	3.07	32.15
15	Kłodzko	3	12.60	15.42	3.06	31.09
16	Koło	2	11.44	15.42	3.01	29.87
17	Kołobrzeg	1	11.07	15.42	3.13	29.62
18	Koszalin	1	12.64	15.42	3.10	31.16
19	Kraków	3	11.05	15.42	2.97	29.44
20	Krosno	3	13.13	15.42	3.03	31.58
21	Legnica	2	10.78	15.42	3.05	29.25
22	Lesko	4	11.09	15.42	3.06	29.57
23	Leszno	2	13.58	15.42	3.10	32.09
24	Lębork	1	12.58	15.42	3.13	31.13
25	Lublin	3	14.21	15.42	3.04	32.67
26	Łeba	1	13.25	15.42	3.14	31.81
27	Łódź	3	12.47	15.42	3.07	30.96
28	Mikołajki	4	14.96	15.42	3.20	33.58
29	Mława	3	14.37	15.42	3.12	32.91
30	Nowy Sącz	3	10.85	15.42	3.02	29.29
31	Olsztyn	4	15.58	15.42	3.18	34.18
32	Opole	3	10.95	15.42	3.00	29.37
33	Ostrołęka	3	14.24	15.42	3.14	32.80
34	Piła	2	12.58	15.42	3.27	31.27
35	Płock	3	11.27	15.42	3.01	29.70
36	Poznań	2	12.89	15.42	3.04	31.36
37	Przemyśl	3	14.01	15.42	2.99	32.42
38	Racibórz	3	11.02	15.42	2.98	29.43
39	Resko	1	11.63	15.42	3.10	30.15
40	Rzeszów	3	13.67	15.42	3.02	32.11
41	Sandomierz	3	12.14	15.42	3.01	30.57
42	Siedlce	4	14.50	15.42	3.09	33.01
43	Słubice	2	10.80	15.42	3.01	29.22

No	Location	Climate zone	Annual final energy demand $E_K$ [kWh/(m <sup>2</sup> · year)]			
			Heating $E_{K_H}$	Hot utility water $E_{K_W}$	Auxiliaries	Total final energy demand $E_K$
44	Sulejów	2	12.90	15.42	3.10	31.42
45	Suwałki	5	17.72	15.42	3.12	36.26
46	Szczecin	1	11.20	15.42	3.07	29.69
47	Szczecinek	1	12.61	15.42	3.21	31.24
48	Świnoujście	1	12.20	15.42	3.04	30.66
49	Tarnów	3	10.71	15.42	2.96	29.09
50	Terespol	4	14.05	15.42	3.06	32.53
51	Toruń	3	13.15	15.42	3.06	31.64
52	Ustka	1	12.21	15.42	3.22	30.86
53	Warszawa	3	12.53	15.42	3.10	31.05
54	Wieluń	2	12.20	15.42	3.05	30.68
55	Włodawa	3	14.67	15.42	3.05	33.15
56	Wrocław	2	12.22	15.42	3.04	30.69
57	Zakopane	5	15.04	15.42	3.26	33.73
58	Zamość	3	14.14	15.42	3.12	32.68
59	Zielona Góra	2	12.86	15.42	3.06	31.33

**Table S8.** Annual non-renewable primary energy demand  $EP$  [kWh/(m<sup>2</sup> · year)] for a A1 energy class building.

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
1	Białystok	4	14.23	6.44	34.98	55.65
2	Bielsko-Biała	3	8.57	2.30	34.67	45.54
3	Bydgoszcz	2	9.50	7.92	35.12	52.54
4	Chojnice	2	12.30	9.78	35.23	57.31
5	Częstochowa	3	10.49	2.98	34.79	48.26
6	Elbląg	2	11.43	6.43	35.11	52.97
7	Gdańsk	1	7.69	6.86	34.96	49.51
8	Gorzów Wielk.	2	9.20	9.01	34.99	53.20
9	Hel	1	8.64	5.38	34.99	49.01
10	Jelenia Góra	3	9.34	5.71	34.86	49.91
11	Kalisz	2	10.28	5.50	35.00	50.79
12	Katowice	3	10.51	2.15	34.83	47.49
13	Kętrzyn	4	14.48	6.56	35.05	56.09
14	Kielce	3	11.01	3.54	35.02	49.56
15	Kłodzko	3	9.63	3.00	34.82	47.46
16	Koło	2	8.17	2.64	34.85	45.66
17	Kołobrzeg	1	7.19	8.99	34.96	51.13
18	Koszalin	1	9.70	9.02	35.00	53.72

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
19	Kraków	3	10.12	1.14	34.86	46.12
20	Krosno	3	10.34	1.60	34.90	46.85
21	Legnica	2	7.56	5.66	34.80	48.02
22	Lesko	4	7.76	2.13	34.66	44.54
23	Leszno	2	10.51	7.13	35.10	52.74
24	Lębork	1	9.31	7.25	35.07	51.63
25	Lublin	3	12.39	3.74	34.98	51.11
26	Łeba	1	10.78	8.39	35.02	54.19
27	Łódź	3	9.19	3.36	35.03	47.59
28	Mikołajki	4	12.76	8.05	35.07	55.87
29	Mława	3	12.11	7.70	35.18	54.99
30	Nowy Sącz	3	6.73	0.44	34.92	42.09
31	Olsztyn	4	13.14	6.75	35.37	55.26
32	Opole	3	7.85	2.22	34.68	44.76
33	Ostrołęka	3	11.37	5.62	35.33	52.33
34	Piła	2	10.31	6.29	34.90	51.51
35	Płock	3	10.83	6.60	34.90	52.33
36	Poznań	2	9.77	4.00	35.10	48.86
37	Przemyśl	3	11.83	0.07	34.91	46.81
38	Racibórz	3	7.00	0.00	34.65	41.65
39	Resko	1	9.17	8.29	34.69	52.15
40	Rzeszów	3	10.47	0.75	35.05	46.27
41	Sandomierz	3	8.87	0.51	34.90	44.28
42	Siedlce	4	12.20	5.44	35.09	52.73
43	Słubice	2	7.94	6.26	34.71	48.91
44	Sulejów	2	9.79	4.17	35.02	48.98
45	Suwałki	5	17.02	8.58	34.81	60.41
46	Szczecin	1	7.61	7.65	34.98	50.24
47	Szczecinek	1	9.48	8.56	35.05	53.10
48	Świnoujście	1	6.81	3.18	34.70	44.69
49	Tarnów	3	8.16	0.00	34.46	42.62
50	Terespol	4	12.34	4.01	34.95	51.30
51	Toruń	3	10.22	7.63	35.11	52.97
52	Ustka	1	8.87	7.70	35.04	51.61
53	Warszawa	3	12.41	3.64	34.89	50.94
54	Wieluń	2	9.80	4.40	34.67	48.87
55	Włodawa	3	13.14	4.15	34.98	52.26
56	Wrocław	2	9.08	2.90	34.89	46.87
57	Zakopane	5	10.92	2.34	35.37	48.63
58	Zamość	3	11.12	0.97	35.12	47.20
59	Zielona Góra	2	9.74	7.20	35.20	52.15

**Table S9.** Annual non-renewable primary energy demand  $EP$  [kWh/(m<sup>2</sup> · year)] for a A2 energy class building.

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
1	Białystok	4	18.82	6.44	26.76	52.03
2	Bielsko-Biała	3	11.99	2.30	26.35	40.64
3	Bydgoszcz	2	13.37	7.92	26.80	48.09
4	Chojnice	2	16.60	9.78	26.91	53.29
5	Częstochowa	3	14.24	2.98	26.37	43.59
6	Elbląg	2	15.57	6.43	26.80	48.80
7	Gdańsk	1	11.09	6.86	26.55	44.49
8	Gorzów Wielk.	2	12.78	9.01	26.63	48.42
9	Hel	1	12.21	5.38	26.62	44.21
10	Jelenia Góra	3	17.00	5.71	26.96	49.68
11	Kalisz	2	14.25	5.50	26.61	46.37
12	Katowice	3	14.38	2.15	26.35	42.88
13	Kętrzyn	4	18.93	6.56	26.62	52.11
14	Kielce	3	15.12	3.54	26.58	45.23
15	Kłodzko	3	13.34	3.00	26.48	42.83
16	Koło	2	11.68	2.64	26.42	40.73
17	Kołobrzeg	1	10.50	8.99	26.97	46.45
18	Koszalin	1	13.42	9.02	26.23	48.67
19	Kraków	3	14.01	1.14	26.37	41.52
20	Krosno	3	14.25	1.60	26.51	42.37
21	Legnica	2	10.84	5.66	26.37	42.86
22	Lesko	4	11.11	2.13	26.28	39.52
23	Leszno	2	14.59	7.13	26.82	48.54
24	Lębork	1	13.12	7.25	26.70	47.07
25	Lublin	3	16.57	3.74	26.52	46.83
26	Łeba	1	14.68	8.39	26.66	49.73
27	Łódź	3	12.95	3.36	26.63	42.95
28	Mikołajki	4	17.02	8.05	26.85	51.92
29	Mława	3	16.35	7.70	26.73	50.78
30	Nowy Sącz	3	10.14	0.44	26.64	37.22
31	Olsztyn	4	17.71	6.75	26.97	51.43
32	Opole	3	11.15	2.22	26.31	39.68
33	Ostrołęka	3	15.72	5.62	26.79	48.13
34	Piła	2	14.10	6.29	26.42	46.81
35	Płock	3	14.68	6.60	26.46	47.74
36	Poznań	2	13.74	4.00	26.62	44.35
37	Przemyśl	3	15.93	0.07	26.46	42.46
38	Racibórz	3	10.33	0.00	26.28	36.61
39	Resko	1	12.55	8.29	26.34	47.18
40	Rzeszów	3	14.65	0.75	26.64	42.03
41	Sandomierz	3	12.57	0.51	26.47	39.55

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
42	Siedlce	4	16.48	5.44	26.72	48.64
43	Słubice	2	11.23	6.26	26.25	43.74
44	Sulejów	2	13.70	4.17	26.64	44.51
45	Suwałki	5	22.03	8.58	26.84	57.45
46	Szczecin	1	11.03	7.65	26.67	45.35
47	Szczecinek	1	13.24	8.56	26.77	48.57
48	Świnoujście	1	9.93	3.18	26.33	39.44
49	Tarnów	3	11.37	0.00	25.99	37.36
50	Terespol	4	16.42	4.01	26.48	46.91
51	Toruń	3	14.15	7.63	26.76	48.54
52	Ustka	1	12.51	7.70	26.81	47.02
53	Warszawa	3	13.12	3.64	26.63	43.39
54	Wieluń	2	13.33	4.40	26.31	44.04
55	Włodawa	3	17.40	4.15	26.51	48.06
56	Wrocław	2	12.78	2.90	26.48	42.16
57	Zakopane	5	15.55	2.34	26.94	44.83
58	Zamość	3	15.33	0.97	26.72	43.01
59	Zielona Góra	2	13.72	7.20	26.65	47.57

**Table S10.** Annual non-renewable primary energy demand  $EP$  [kWh/(m<sup>2</sup> · year)] for a A3 energy class building.

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
1	Białystok	4	29.87	6.44	7.45	43.76
2	Bielsko-Biała	3	20.84	2.30	7.36	30.51
3	Bydgoszcz	2	23.15	7.92	7.51	38.58
4	Chojnice	2	27.35	9.78	7.58	44.72
5	Częstochowa	3	23.54	2.98	7.17	33.69
6	Elbląg	2	25.92	6.43	7.44	39.79
7	Gdańsk	1	19.70	6.86	7.30	33.85
8	Gorzów Wielk.	2	21.87	9.01	7.33	38.21
9	Hel	1	21.30	5.38	7.42	34.10
10	Jelenia Góra	3	22.51	5.71	7.46	35.68
11	Kalisz	2	24.11	5.50	7.36	36.97
12	Katowice	3	23.75	2.15	7.16	33.06
13	Kętrzyn	4	29.54	6.56	7.34	43.45
14	Kielce	3	25.12	3.54	7.32	35.98
15	Kłodzko	3	22.83	3.00	7.28	33.11
16	Koło	2	20.48	2.64	7.16	30.27
17	Kołobrzeg	1	19.47	8.99	7.47	35.93

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
18	Koszalin	1	22.96	9.02	7.43	39.41
19	Kraków	3	23.45	1.14	7.14	31.73
20	Krosno	3	24.12	1.60	7.09	32.82
21	Legnica	2	19.19	5.66	7.22	32.07
22	Lesko	4	19.70	2.13	7.20	29.03
23	Leszno	2	24.79	7.13	7.42	39.34
24	Lębork	1	22.72	7.25	7.41	37.38
25	Lublin	3	26.62	3.74	7.17	37.54
26	Łeba	1	24.36	8.39	7.41	40.16
27	Łódź	3	22.54	3.36	7.34	33.23
28	Mikołajki	4	27.73	8.05	7.54	43.31
29	Mława	3	26.71	7.70	7.44	41.85
30	Nowy Sącz	3	18.97	0.44	7.16	26.56
31	Olsztyn	4	29.05	6.75	7.54	43.34
32	Opole	3	19.59	2.22	7.07	28.88
33	Ostrołęka	3	26.26	5.62	7.51	39.39
34	Piła	2	23.20	6.29	7.22	36.71
35	Płock	3	24.02	6.60	7.23	37.84
36	Poznań	2	23.55	4.00	7.21	34.76
37	Przemyśl	3	26.02	0.07	7.10	33.19
38	Racibórz	3	18.91	0.00	7.06	25.96
39	Resko	1	21.12	8.29	7.31	36.71
40	Rzeszów	3	24.98	0.75	7.21	32.94
41	Sandomierz	3	21.89	0.51	7.16	29.56
42	Siedlce	4	26.93	5.44	7.41	39.78
43	Słubice	2	19.45	6.26	7.06	32.77
44	Sulejów	2	23.44	4.17	7.37	34.98
45	Suwałki	5	33.94	8.58	7.48	49.99
46	Szczecin	1	19.88	7.65	7.36	34.89
47	Szczecinek	1	22.79	8.56	7.50	38.85
48	Świnoujście	1	18.05	3.18	7.19	28.42
49	Tarnów	3	26.71	0.00	6.85	33.56
50	Terespol	4	26.35	4.01	7.12	37.49
51	Toruń	3	24.03	7.63	7.40	39.05
52	Ustka	1	21.91	7.70	7.53	37.14
53	Warszawa	3	22.63	3.64	7.41	33.67
54	Wieluń	2	22.23	4.40	7.27	33.90
55	Włodawa	3	27.58	4.15	7.22	38.95
56	Wrocław	2	22.03	2.90	7.29	32.23
57	Zakopane	5	27.21	2.34	7.62	37.17
58	Zamość	3	25.88	0.97	7.43	34.28
59	Zielona Góra	2	23.50	7.20	7.25	37.95

**Table S11.** Annual non-renewable primary energy demand  $EP$  [kWh/(m<sup>2</sup> · year)] for a B1 energy class building.

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
1	Białystok	4	22.84	6.44	35.83	65.10
2	Bielsko-Biała	3	15.21	2.30	35.56	53.07
3	Bydgoszcz	2	16.94	7.92	35.92	60.79
4	Chojnice	2	20.51	9.78	35.98	66.27
5	Częstochowa	3	17.63	2.98	35.55	56.16
6	Elbląg	2	19.33	6.43	35.85	61.62
7	Gdańsk	1	14.25	6.86	35.68	56.79
8	Gorzów Wielk.	2	16.10	9.01	35.70	60.81
9	Hel	1	15.54	5.38	35.82	56.73
10	Jelenia Góra	3	16.45	5.71	35.87	58.03
11	Kalisz	2	17.85	5.50	35.76	59.11
12	Katowice	3	17.80	2.15	35.52	55.47
13	Kętrzyn	4	22.78	6.56	35.72	65.06
14	Kielce	3	18.76	3.54	35.69	57.99
15	Kłodzko	3	16.79	3.00	35.63	55.43
16	Koło	2	14.90	2.64	35.55	53.08
17	Kołobrzeg	1	13.79	8.99	35.89	58.66
18	Koszalin	1	16.91	9.02	35.85	61.78
19	Kraków	3	17.46	1.14	35.52	54.12
20	Krosno	3	17.83	1.60	35.48	54.92
21	Legnica	2	13.90	5.66	35.58	55.13
22	Lesko	4	14.25	2.13	35.51	51.89
23	Leszno	2	18.31	7.13	35.84	61.28
24	Lębork	1	16.63	7.25	35.82	59.70
25	Lublin	3	20.23	3.74	35.56	59.54
26	Łeba	1	18.21	8.39	35.81	62.41
27	Łódź	3	16.45	3.36	35.70	55.51
28	Mikołajki	4	20.91	8.05	35.92	64.87
29	Mława	3	20.13	7.70	35.80	63.63
30	Nowy Sącz	3	13.39	0.44	35.55	49.38
31	Olsztyn	4	21.83	6.75	35.95	64.53
32	Opole	3	14.22	2.22	35.47	51.91
33	Ostrołęka	3	19.56	5.62	35.87	61.06
34	Piła	2	17.43	6.29	35.57	59.28
35	Płock	3	18.08	6.60	35.61	60.29
36	Poznań	2	17.33	4.00	35.60	56.92
37	Przemysł	3	19.60	0.07	35.50	55.17
38	Racibórz	3	13.46	0.00	35.45	48.91
39	Resko	1	15.67	8.29	35.69	59.64
40	Rzeszów	3	18.42	0.75	35.60	54.78
41	Sandomierz	3	15.98	0.51	35.55	52.04



No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
42	Siedlce	4	20.28	5.44	35.78	61.50
43	Słubice	2	14.23	6.26	35.40	55.89
44	Sulejów	2	17.26	4.17	35.74	57.17
45	Suwałki	5	26.35	8.58	35.90	70.83
46	Szczecin	1	14.28	7.65	35.72	57.65
47	Szczecinek	1	16.71	8.56	35.89	61.17
48	Świnoujście	1	12.91	3.18	35.58	51.67
49	Tarnów	3	14.28	0.00	35.17	49.45
50	Terespol	4	20.02	4.01	35.51	59.55
51	Toruń	3	17.76	7.63	35.83	61.22
52	Ustka	1	15.94	7.70	35.92	59.56
53	Warszawa	3	16.58	3.64	35.83	56.04
54	Wieluń	2	16.55	4.40	35.61	56.56
55	Włodawa	3	21.09	4.15	35.60	60.85
56	Wrocław	2	16.16	2.90	35.66	54.72
57	Zakopane	5	19.80	2.34	36.01	58.15
58	Zamość	3	19.16	0.97	35.84	55.97
59	Zielona Góra	2	17.31	7.20	35.64	60.15

**Table S12.** Annual non-renewable primary energy demand  $EP$  [kWh/(m<sup>2</sup> · year)] for a B2 energy class building.

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
1	Białystok	4	27.91	6.44	27.24	61.59
2	Bielsko-Biała	3	19.30	2.30	27.05	48.64
3	Bydgoszcz	2	21.42	7.92	27.33	56.66
4	Chojnice	2	25.44	9.78	27.42	62.64
5	Częstochowa	3	21.92	2.98	27.04	51.94
6	Elbląg	2	24.08	6.43	27.23	57.75
7	Gdańsk	1	18.20	6.86	27.12	52.18
8	Gorzów Wielk.	2	20.26	9.01	27.15	56.42
9	Hel	1	19.72	5.38	27.26	52.36
10	Jelenia Góra	3	25.37	5.71	27.43	58.51
11	Kalisz	2	22.39	5.50	27.13	55.03
12	Katowice	3	22.12	2.15	27.02	51.29
13	Kętrzyn	4	27.67	6.56	27.11	61.34
14	Kielce	3	23.36	3.54	27.14	54.04
15	Kłodzko	3	21.16	3.00	27.14	51.30
16	Koło	2	18.95	2.64	27.01	48.59

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
17	Kołobrzeg	1	17.88	8.99	27.27	54.13
18	Koszalin	1	21.28	9.02	27.22	57.51
19	Kraków	3	21.80	1.14	26.99	49.93
20	Krosno	3	22.35	1.60	26.93	50.89
21	Legnica	2	17.74	5.66	27.08	50.49
22	Lesko	4	18.21	2.13	27.07	47.41
23	Leszno	2	22.97	7.13	27.20	57.31
24	Lębork	1	21.02	7.25	27.22	55.49
25	Lublin	3	24.85	3.74	27.02	55.62
26	Łeba	1	22.65	8.39	27.23	58.28
27	Łódź	3	20.84	3.36	27.17	51.37
28	Mikołajki	4	25.83	8.05	27.39	61.26
29	Mława	3	24.88	7.70	27.26	59.84
30	Nowy Sącz	3	17.43	0.44	27.01	44.87
31	Olsztyn	4	27.02	6.75	27.35	61.13
32	Opole	3	18.12	2.22	26.92	47.26
33	Ostrołęka	3	24.40	5.62	27.31	57.33
34	Piła	2	21.62	6.29	27.08	54.99
35	Płock	3	22.38	6.60	27.09	56.07
36	Poznań	2	21.81	4.00	27.06	52.87
37	Przemyśl	3	24.23	0.07	26.93	51.23
38	Racibórz	3	17.40	0.00	26.91	44.31
39	Resko	1	19.62	8.29	27.13	55.04
40	Rzeszów	3	23.14	0.75	27.04	50.94
41	Sandomierz	3	20.25	0.51	27.01	47.77
42	Siedlce	4	25.07	5.44	27.20	57.71
43	Słubice	2	18.03	6.26	26.98	51.26
44	Sulejów	2	21.73	4.17	27.19	53.09
45	Suwałki	5	31.81	8.58	27.27	67.65
46	Szczecin	1	18.33	7.65	27.15	53.13
47	Szczecinek	1	21.10	8.56	27.34	57.00
48	Świnoujście	1	16.64	3.18	27.04	46.87
49	Tarnów	3	17.95	0.00	26.81	44.76
50	Terespol	4	24.59	4.01	26.98	55.58
51	Toruń	3	22.28	7.63	27.17	57.08
52	Ustka	1	20.25	7.70	27.37	55.32
53	Warszawa	3	20.95	3.64	27.20	51.79
54	Wieluń	2	20.68	4.40	27.09	52.17
55	Włodawa	3	25.79	4.15	27.09	57.02
56	Wrocław	2	20.42	2.90	27.11	50.42
57	Zakopane	5	25.14	2.34	27.47	54.95
58	Zamość	3	24.01	0.97	27.23	52.21
59	Zielona Góra	2	21.78	7.20	27.10	56.09

**Table S13.** Annual non-renewable primary energy demand  $EP$  [kWh/(m<sup>2</sup> · year)] for a B3 energy class building.

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
1	Białystok	4	39.58	6.44	7.78	53.80
2	Bielsko-Biała	3	29.08	2.30	7.51	38.89
3	Bydgoszcz	2	32.04	7.92	7.92	47.88
4	Chojnice	2	36.91	9.78	8.07	54.76
5	Częstochowa	3	32.03	2.98	7.54	42.55
6	Elbląg	2	35.21	6.43	7.79	49.44
7	Gdańsk	1	27.68	6.86	7.73	42.26
8	Gorzów Wielk.	2	30.10	9.01	7.67	46.78
9	Hel	1	29.74	5.38	7.94	43.06
10	Jelenia Góra	3	31.31	5.71	7.91	44.93
11	Kalisz	2	33.09	5.50	7.65	46.24
12	Katowice	3	32.26	2.15	7.52	41.93
13	Kętrzyn	4	39.01	6.56	7.60	53.17
14	Kielce	3	34.15	3.54	7.68	45.36
15	Kłodzko	3	31.51	3.00	7.65	42.16
16	Koło	2	28.59	2.64	7.53	38.75
17	Kołobrzeg	1	27.67	8.99	7.82	44.47
18	Koszalin	1	31.59	9.02	7.76	48.37
19	Kraków	3	27.63	1.14	7.42	36.19
20	Krosno	3	32.83	1.60	7.57	42.00
21	Legnica	2	26.96	5.66	7.63	40.24
22	Lesko	4	27.73	2.13	7.65	37.51
23	Leszno	2	33.94	7.13	7.74	48.82
24	Lębork	1	31.45	7.25	7.81	46.52
25	Lublin	3	35.53	3.74	7.59	46.86
26	Łeba	1	33.12	8.39	7.86	49.37
27	Łódź	3	31.18	3.36	7.68	42.21
28	Mikołajki	4	37.40	8.05	7.99	53.44
29	Mława	3	35.92	7.70	7.81	51.43
30	Nowy Sącz	3	27.12	0.44	7.56	35.11
31	Olsztyn	4	38.96	6.75	7.94	53.66
32	Opole	3	27.37	2.22	7.49	37.08
33	Ostrołęka	3	35.60	5.62	7.85	49.07
34	Piła	2	31.46	6.29	8.17	45.92
35	Płock	3	28.17	6.60	7.52	42.28
36	Poznań	2	32.24	4.00	7.60	43.83
37	Przemysł	3	35.03	0.07	7.47	42.57
38	Racibórz	3	26.84	0.00	7.46	34.30
39	Resko	1	29.08	8.29	7.74	45.10

No	Location	Climate zone	Annual non-renewable primary energy demand $EP$ [kWh/(m <sup>2</sup> · year)]			
			Heating $EP_H$	Hot utility water $EP_W$	Auxiliaries	Total primary energy demand $EP$
40	Rzeszów	3	34.17	0.75	7.55	42.47
41	Sandomierz	3	30.34	0.51	7.54	38.39
42	Siedlce	4	36.25	5.44	7.72	49.42
43	Słubice	2	26.99	6.26	7.52	40.76
44	Sulejów	2	32.26	4.17	7.75	44.17
45	Suwałki	5	44.29	8.58	7.80	60.66
46	Szczecin	1	27.99	7.65	7.67	43.31
47	Szczecinek	1	31.54	8.56	8.02	48.12
48	Świnoujście	1	30.51	3.18	7.60	41.29
49	Tarnów	3	26.74	0.00	7.40	34.14
50	Terespol	4	35.12	4.01	7.65	46.79
51	Toruń	3	32.88	7.63	7.65	48.17
52	Ustka	1	30.52	7.70	8.06	46.29
53	Warszawa	3	31.33	3.64	7.74	42.71
54	Wieluń	2	30.51	4.40	7.63	42.54
55	Włodawa	3	36.68	4.15	7.63	48.46
56	Wrocław	2	30.56	2.90	7.61	41.07
57	Zakopane	5	37.60	2.34	8.16	48.10
58	Zamość	3	35.35	0.97	7.79	44.11
59	Zielona Góra	2	32.14	7.20	7.64	46.98

**Table S14.** CO<sub>2</sub> emissions rate [kg/(m<sup>2</sup> · year)] the adopted building in six energy classes and 59 locations in Poland.

No	Location	Climate zone	CO <sub>2</sub> emissions rate [kg/(m <sup>2</sup> · year)]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
1	Białystok	4	5.85	7.15	10.28	8.29	9.73	13.03
2	Bielsko-Biała	3	3.08	4.05	6.56	4.96	6.12	8.89
3	Bydgoszcz	2	4.93	6.03	8.80	7.04	8.31	11.32
4	Chojnice	2	6.25	7.47	10.52	8.58	9.98	13.22
5	Częstochowa	3	3.82	4.88	7.51	5.84	7.05	9.92
6	Elbląg	2	5.06	6.23	9.16	7.30	8.64	11.79
7	Gdańsk	1	4.12	5.08	7.52	5.98	7.10	9.78
8	Gorzów Wielk.	2	5.16	6.17	8.75	7.11	8.29	11.08
9	Hel	1	3.97	4.98	7.56	5.92	7.11	9.95
10	Jelenia Góra	3	4.26	6.43	7.99	6.28	8.80	10.48
11	Kalisz	2	4.47	5.59	8.39	6.61	7.90	10.93
12	Katowice	3	3.58	4.68	7.33	5.65	6.87	9.74
13	Kętrzyn	4	5.96	7.22	10.22	8.31	9.69	12.90
14	Kielce	3	4.12	5.28	8.12	6.31	7.62	10.67
15	Kłodzko	3	3.58	4.63	7.31	5.61	6.84	9.77
16	Koło	2	3.06	4.05	6.55	4.97	6.11	8.84
17	Kołobrzeg	1	4.58	5.52	8.06	6.45	7.61	10.38

No	Location	Climate zone	CO <sub>2</sub> emissions rate [kg/(m <sup>2</sup> · year)]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
18	Koszalin	1	5.30	6.35	9.06	7.34	8.58	11.50
19	Kraków	3	3.19	4.29	6.96	5.27	6.50	8.15
20	Krosno	3	3.38	4.49	7.29	5.51	6.78	9.75
21	Legnica	2	3.74	4.67	7.04	5.54	6.63	9.24
22	Lesko	4	2.80	3.75	6.18	4.64	5.76	8.46
23	Leszno	2	5.00	6.15	9.04	7.21	8.53	11.63
24	Lębork	1	4.69	5.77	8.49	6.76	8.01	10.96
25	Lublin	3	4.57	5.75	8.60	6.79	8.10	11.12
26	Łeba	1	5.43	6.53	9.28	7.53	8.79	11.76
27	Łódź	3	3.55	4.62	7.33	5.61	6.85	9.78
28	Mikołajki	4	5.89	7.10	10.13	8.20	9.59	12.87
29	Mława	3	5.61	6.81	9.75	7.88	9.23	12.35
30	Nowy Sącz	3	2.03	3.00	5.50	3.92	5.06	7.80
31	Olsztyn	4	5.63	6.93	10.14	8.10	9.57	12.95
32	Opole	3	2.85	3.79	6.18	4.66	5.76	8.38
33	Ostrołęka	3	4.81	6.04	9.03	7.13	8.50	11.67
34	Piła	2	4.70	5.77	8.35	6.72	7.90	10.69
35	Płock	3	4.94	6.03	8.67	6.99	8.21	9.85
36	Poznań	2	3.90	5.02	7.80	6.04	7.31	10.26
37	Przemyśl	3	3.37	4.53	7.39	5.57	6.88	9.94
38	Racibórz	3	1.98	2.93	5.35	3.81	4.93	7.60
39	Resko	1	4.94	5.90	8.33	6.78	7.90	10.58
40	Rzeszów	3	3.18	4.36	7.29	5.43	6.77	9.89
41	Sandomierz	3	2.66	3.70	6.34	4.67	5.88	8.74
42	Siedlce	4	5.00	6.21	9.17	7.28	8.64	11.81
43	Słubice	2	4.02	4.95	7.28	5.80	6.88	9.42
44	Sulejów	2	3.95	5.06	7.82	6.07	7.33	10.31
45	Suwałki	5	7.25	8.67	12.04	9.89	11.44	14.97
46	Szczecin	1	4.32	5.29	7.80	6.21	7.36	10.09
47	Szczecinek	1	5.11	6.17	8.88	7.16	8.40	11.36
48	Świnoujście	1	2.83	3.71	6.01	4.56	5.61	9.54
49	Tarnów	3	2.31	3.22	7.56	4.04	5.08	7.57
50	Terespol	4	4.63	5.79	8.60	6.81	8.10	11.08
51	Toruń	3	5.06	6.17	8.97	7.19	8.47	11.47
52	Ustka	1	4.69	5.72	8.39	6.69	7.92	10.83
53	Warszawa	3	4.54	4.75	7.44	5.73	6.96	9.90
54	Wieluń	2	4.02	5.02	7.54	5.93	7.10	9.89
55	Włodawa	3	4.90	6.10	8.98	7.15	8.48	11.56
56	Wrocław	2	3.39	4.44	7.06	5.40	6.60	9.47
57	Zakopane	5	3.75	5.07	8.37	6.27	7.78	11.31
58	Zamość	3	3.42	4.61	7.60	5.70	7.07	10.28
59	Zielona Góra	2	4.80	5.92	8.69	6.94	8.21	11.14

**Table S15.** Energy and heat source investment cost [€] for the adopted building in six energy classes and 59 locations in Poland.

No	Location	Climate zone	Energy and heat source investment costs [€]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
1	Białystok	4	106 164	115 264	120 343	114 638	123 738	128 817
2	Bielsko-Biała	3	104 213	112 881	117 721	112 270	120 938	125 779
3	Bydgoszcz	2	102 277	110 513	115 100	109 917	118 153	122 740
4	Chojnice	2	102 277	110 513	115 100	109 917	118 153	122 740
5	Częstochowa	3	104 213	112 881	117 721	112 270	120 938	125 779
6	Elbląg	2	102 277	110 513	115 100	109 917	118 153	122 740
7	Gdańsk	1	100 326	108 130	112 494	107 549	115 353	119 717
8	Gorzów Wielk.	2	102 277	110 513	115 100	109 917	118 153	122 740
9	Hel	1	100 326	108 130	112 494	107 549	115 353	119 717
10	Jelenia Góra	3	104 213	112 881	117 721	112 270	120 938	125 779
11	Kalisz	2	102 277	110 513	115 100	109 917	118 153	122 740
12	Katowice	3	104 213	112 881	117 721	112 270	120 938	125 779
13	Kętrzyn	4	106 164	115 264	120 343	114 638	123 738	128 817
14	Kielce	3	104 213	112 881	117 721	112 270	120 938	125 779
15	Kłodzko	3	104 213	112 881	117 721	112 270	120 938	125 779
16	Koło	2	102 277	110 513	115 100	109 917	118 153	122 740
17	Kołobrzeg	1	100 326	108 130	112 494	107 549	115 353	119 717
18	Koszalin	1	100 326	108 130	112 494	107 549	115 353	119 717
19	Kraków	3	104 213	112 881	117 721	112 270	120 938	125 779
20	Krosno	3	104 213	112 881	117 721	112 270	120 938	125 779
21	Legnica	2	102 277	110 513	115 100	109 917	118 153	122 740
22	Lesko	4	106 164	115 264	120 343	114 638	123 738	128 817
23	Leszno	2	102 277	110 513	115 100	109 917	118 153	122 740
24	Lębork	1	100 326	108 130	112 494	107 549	115 353	119 717
25	Lublin	3	104 213	112 881	117 721	112 270	120 938	125 779
26	Łeba	1	100 326	108 130	112 494	107 549	115 353	119 717
27	Łódź	3	104 213	112 881	117 721	112 270	120 938	125 779
28	Mikołajki	4	106 164	115 264	120 343	114 638	123 738	128 817
29	Mława	3	104 213	112 881	117 721	112 270	120 938	125 779
30	Nowy Sącz	3	104 213	112 881	117 721	112 270	120 938	125 779
31	Olsztyn	4	106 164	115 264	120 343	114 638	123 738	128 817
32	Opole	3	104 213	112 881	117 721	112 270	120 938	125 779
33	Ostrołęka	3	104 213	112 881	117 721	112 270	120 938	125 779
34	Piła	2	102 277	110 513	115 100	109 917	118 153	122 740
35	Płock	3	104 213	112 881	117 721	112 270	120 938	125 779
36	Poznań	2	102 277	110 513	115 100	109 917	118 153	122 740
37	Przemyśl	3	104 213	112 881	117 721	112 270	120 938	125 779
38	Racibórz	3	104 213	112 881	117 721	112 270	120 938	125 779
39	Resko	1	100 326	108 130	112 494	107 549	115 353	119 717
40	Rzeszów	3	104 213	112 881	117 721	112 270	120 938	125 779
41	Sandomierz	3	104 213	112 881	117 721	112 270	120 938	125 779
42	Siedlce	4	106 164	115 264	120 343	114 638	123 738	128 817
43	Słubice	2	102 277	110 513	115 100	109 917	118 153	122 740
44	Sulejów	2	102 277	110 513	115 100	112 270	118 153	122 740
45	Suwałki	5	108 115	117 632	122 949	116 991	126 523	131 840

No	Location	Climate zone	Energy and heat source investment costs [€]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
46	Szczecin	1	100 326	108 130	112 494	107 549	115 353	119 717
47	Szczecinek	1	100 326	108 130	112 494	107 549	115 353	119 717
48	Świnoujście	1	100 326	108 130	112 494	107 549	115 353	122 740
49	Tarnów	3	104 213	112 881	117 721	112 270	120 938	125 779
50	Terespol	4	106 164	115 264	120 343	114 638	123 738	128 817
51	Toruń	3	104 213	112 881	117 721	112 270	120 938	125 779
52	Ustka	1	100 326	108 130	112 494	107 549	115 353	119 717
53	Warszawa	3	104 213	112 881	117 721	112 270	120 938	125 779
54	Wieluń	2	102 277	110 513	115 100	109 917	118 153	122 740
55	Włodawa	3	104 213	112 881	117 721	112 270	120 938	125 779
56	Wrocław	2	102 277	110 513	115 100	109 917	118 153	122 740
57	Zakopane	5	108 115	117 632	122 949	116 991	126 523	131 840
58	Zamość	3	104 213	112 881	117 721	112 270	120 938	125 779
59	Zielona Góra	2	102 277	110 513	115 100	109 917	118 153	122 740

**Table S16.** Operating costs [€/( $\text{m}^2 \cdot \text{month}$ )] for the adopted building in six energy classes and 59 locations in Poland.

No	Location	Climate zone	Operating costs [€/( $\text{m}^2 \cdot \text{month}$ )]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
1	Białystok	4	1.32	1.15	0.75	1.43	1.26	0.87
2	Bielsko-Biała	3	1.22	1.04	0.62	1.32	1.13	0.72
3	Bydgoszcz	2	1.28	1.10	0.69	1.39	1.20	0.80
4	Chojnice	2	1.33	1.16	0.75	1.44	1.26	0.87
5	Częstochowa	3	1.25	1.06	0.65	1.35	1.16	0.75
6	Elbląg	2	1.29	1.12	0.71	1.40	1.22	0.82
7	Gdańsk	1	1.25	1.06	0.64	1.34	1.16	0.74
8	Gorzów Wielk.	2	1.29	1.10	0.68	1.38	1.19	0.78
9	Hel	1	1.25	1.07	0.65	1.35	1.16	0.76
10	Jelenia Góra	3	1.26	1.13	0.67	1.36	1.23	0.78
11	Kalisz	2	1.27	1.09	0.68	1.37	1.19	0.79
12	Katowice	3	1.24	1.06	0.65	1.34	1.16	0.75
13	Kętrzyn	4	1.33	1.15	0.75	1.43	1.25	0.86
14	Kielce	3	1.27	1.08	0.68	1.37	1.19	0.78
15	Kłodzko	3	1.24	1.06	0.65	1.34	1.16	0.75
16	Koło	2	1.22	1.04	0.62	1.31	1.13	0.71
17	Kołobrzeg	1	1.26	1.09	0.66	1.36	1.17	0.76
18	Koszalin	1	1.29	1.10	0.70	1.39	1.21	0.80
19	Kraków	3	1.23	1.05	0.64	1.33	1.15	0.69
20	Krosno	3	1.24	1.06	0.65	1.34	1.16	0.75
21	Legnica	2	1.24	1.05	0.63	1.33	1.14	0.72
22	Lesko	4	1.21	1.02	0.61	1.30	1.12	0.70
23	Leszno	2	1.29	1.11	0.70	1.39	1.21	0.81
24	Lębork	1	1.28	1.09	0.68	1.37	1.19	0.79
25	Lublin	3	1.28	1.10	0.69	1.38	1.20	0.80
26	Łeba	1	1.30	1.12	0.71	1.40	1.22	0.81

No	Location	Climate zone	Operating costs [€/ (m <sup>2</sup> · month)]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
27	Łódź	3	1.24	1.06	0.65	1.34	1.16	0.75
28	Mikołajki	4	1.32	1.15	0.74	1.43	1.25	0.86
29	Mława	3	1.31	1.13	0.73	1.41	1.24	0.84
30	Nowy Sącz	3	1.19	1.01	0.58	1.28	1.10	0.68
31	Olsztyn	4	1.32	1.15	0.75	1.43	1.26	0.87
32	Opole	3	1.21	1.02	0.60	1.30	1.12	0.70
33	Ostrołęka	3	1.29	1.11	0.71	1.39	1.22	0.82
34	Piła	2	1.28	1.09	0.67	1.37	1.19	0.79
35	Płock	3	1.28	1.10	0.69	1.38	1.20	0.74
36	Poznań	2	1.26	1.07	0.66	1.35	1.17	0.76
37	Przemyśl	3	1.25	1.06	0.65	1.34	1.16	0.76
38	Racibórz	3	1.19	1.00	0.58	1.28	1.09	0.67
39	Resko	1	1.27	1.09	0.67	1.37	1.18	0.77
40	Rzeszów	3	1.24	1.06	0.65	1.34	1.16	0.76
41	Sandomierz	3	1.22	1.03	0.62	1.31	1.13	0.72
42	Siedlce	4	1.29	1.12	0.71	1.40	1.22	0.82
43	Słubice	2	1.24	1.05	0.63	1.33	1.15	0.72
44	Sulejów	2	1.26	1.08	0.67	1.36	1.18	0.77
45	Suwałki	5	1.36	1.20	0.81	1.49	1.32	0.93
46	Szczecin	1	1.26	1.07	0.65	1.35	1.16	0.75
47	Szczecinek	1	1.29	1.11	0.69	1.39	1.21	0.80
48	Świnoujście	1	1.21	1.02	0.60	1.30	1.11	0.74
49	Tarnów	3	1.19	1.00	0.66	1.28	1.09	0.67
50	Terespol	4	1.28	1.10	0.69	1.38	1.20	0.80
51	Toruń	3	1.29	1.11	0.70	1.39	1.21	0.80
52	Ustka	1	1.27	1.09	0.68	1.37	1.19	0.79
53	Warszawa	3	1.28	1.06	0.65	1.35	1.16	0.76
54	Wieluń	2	1.25	1.06	0.65	1.35	1.16	0.75
55	Włodawa	3	1.29	1.11	0.71	1.39	1.22	0.81
56	Wrocław	2	1.24	1.05	0.64	1.33	1.15	0.74
57	Zakopane	5	1.26	1.09	0.70	1.38	1.21	0.82
58	Zamość	3	1.25	1.07	0.67	1.35	1.18	0.78
59	Zielona Góra	2	1.28	1.10	0.69	1.38	1.20	0.79

**Table S17.** 10-year LCC costs of heat source [€] for the adopted building in six energy classes and 59 locations in Poland.

No	Location	Climate zone	10-year LCC costs of heat source [€]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
1	Białystok	4	308 340	291 371	235 631	334 311	316 638	261 310
2	Bielsko-Biała	3	291 127	271 407	213 193	313 657	294 241	235 300
3	Bydgoszcz	2	298 965	279 578	221 355	322 050	302 493	245 180
4	Chojnice	2	306 129	287 422	230 631	330 233	311 575	255 877
5	Częstochowa	3	295 547	275 936	217 565	318 344	299 292	240 994
6	Elbląg	2	300 361	281 424	223 880	323 968	304 763	248 142
7	Gdańsk	1	292 194	271 185	211 026	313 089	292 395	233 038



No	Location	Climate zone	10-year LCC costs of heat source [€]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
8	Gorzów Wielk.	2	299 208	279 165	219 776	320 993	301 121	242 254
9	Hel	1	292 182	271 658	212 459	314 048	293 743	235 588
10	Jelenia Góra	3	297 052	286 002	220 212	320 845	309 637	244 479
11	Kalisz	2	297 010	277 465	219 533	320 083	300 538	243 019
12	Katowice	3	294 782	275 147	216 921	317 555	298 587	240 363
13	Kętrzyn	4	309 154	291 092	234 806	333 922	315 861	259 768
14	Kielce	3	297 938	278 862	221 401	321 428	302 691	245 669
15	Kłodzko	3	294 296	274 952	216 873	317 348	298 478	240 642
16	Koło	2	289 664	269 185	209 504	311 146	291 116	231 897
17	Kołobrzeg	1	293 821	274 390	213 795	315 602	294 897	235 831
18	Koszalin	1	298 119	276 199	219 356	320 580	300 288	242 035
19	Kraków	3	293 118	273 471	215 197	315 843	296 778	231 220
20	Krosno	3	294 162	274 977	216 630	316 850	297 980	240 849
21	Legnica	2	291 911	271 067	211 107	313 077	292 913	233 086
22	Lesko	4	291 499	271 884	213 059	314 070	295 171	236 480
23	Leszno	2	299 645	280 719	222 739	323 033	303 634	246 649
24	Lębork	1	295 751	275 592	216 867	318 006	297 859	239 996
25	Lublin	3	300 270	281 218	223 490	323 529	304 865	247 806
26	Łeba	1	299 236	279 296	220 849	321 831	301 866	244 209
27	Łódź	3	294 842	275 353	217 042	317 470	298 502	240 606
28	Mikołajki	4	308 110	290 631	234 320	333 376	315 679	260 460
29	Mława	3	305 163	286 244	229 257	328 871	310 402	253 853
30	Nowy Sącz	3	287 023	267 449	207 147	308 521	288 910	230 127
31	Olsztyn	4	308 498	290 752	235 000	333 534	316 006	261 335
32	Opole	3	289 925	269 768	209 854	311 581	291 703	232 325
33	Ostrołęka	3	302 200	283 100	226 428	325 860	307 451	251 109
34	Piła	2	297 557	277 320	218 368	319 536	299 955	243 395
35	Płock	3	300 683	281 169	222 725	323 480	304 379	238 736
36	Poznań	2	294 837	274 916	216 291	316 877	297 563	239 716
37	Przemyśl	3	294 891	275 754	217 990	318 040	299 267	242 294
38	Racibórz	3	286 197	266 149	206 491	308 072	288 303	229 144
39	Resko	1	295 156	274 390	214 997	317 059	296 366	237 009
40	Rzeszów	3	294 004	275 147	217 528	317 324	298 745	241 990
41	Sandomierz	3	290 520	270 812	212 004	312 831	293 621	235 409
42	Siedlce	4	304 333	286 235	229 536	328 811	310 700	254 499
43	Słubice	2	292 846	271 916	211 556	313 575	293 629	233 378
44	Sulejów	2	294 740	275 146	216 971	319 886	298 158	240 554
45	Suwałki	5	316 593	301 753	247 429	345 163	328 347	274 533
46	Szczecin	1	293 056	272 508	212 471	314 218	293 610	234 204
47	Szczecinek	1	297 451	277 559	218 834	319 900	299 960	242 473
48	Świnoujście	1	285 504	264 203	203 693	306 265	285 329	235 940
49	Tarnów	3	286 999	266 307	218 038	307 938	288 461	228 379
50	Terespol	4	302 330	283 516	225 772	325 666	307 373	250 735
51	Toruń	3	301 727	282 687	224 607	325 034	305 715	248 170
52	Ustka	1	295 411	275 568	216 527	317 775	297 726	240 008

No	Location	Climate zone	10-year LCC costs of heat source [€]					
			Class A1	Class A2	Class A3	Class B1	Class B2	Class B3
53	Warszawa	3	299 833	275 912	217 795	318 526	299 085	241 431
54	Wieluń	2	293 598	273 459	214 834	316 100	296 312	237 470
55	Włodawa	3	301 957	283 015	225 712	325 568	307 123	250 295
56	Wrocław	2	291 619	271 564	212 904	313 975	294 224	235 758
57	Zakopane	5	301 780	284 439	229 896	327 764	311 154	257 959
58	Zamość	3	295 583	276 846	220 139	319 752	301 162	245 159
59	Zielona Góra	2	298 892	278 692	220 043	320 678	301 351	243 383