



Building Stock	DE National	German residential building stock	Year	2009
Details	IWU Model, representing the year 2009, elaborated in 2015 / Source: EPISCOPE national report (2015)			

Annotations to this sheet

	1	2	3	4	5	6	7	8	9	10
Building type	SUH I	SUH II	SUH III	MFH I	MFH II	MFH III				
Dataset	DE.Nationa I.2009.002. 01	DE.Nationa I.2009.002. 02	DE.Nationa I.2009.002. 03	DE.Nationa I.2009.002. 04	DE.Nationa I.2009.002. 05	DE.Nationa I.2009.002. 06				

Thermal Envelope Average Building

Basic data	TABULA average buildings										
Floor area TABULA	147,1	151,0	150,4	453,6	670,0	651,9					m²
Floor area national	133,7	137,3	136,7	412,4	609,1	592,6					m ²
Number of dwellings	1,21	1,10	1,05	6,06	8,72	7,93					

Thermal envelope areas (external dimensions)	TABULA average buildings										
Roof	105,2	109,6	89,2	173,0	303,2	298,2					m ²
Wall	143,5	134,5	121,5	302,6	466,2	385,8					m ²
Window	27,3	29,8	25,3	80,6	141,9	125,3					m ²
Floor	87,2	89,8	70,2	151,9	271,1	224,8					m ²

Original state / not refurbished fraction of the envelope area

U-values of the original state	Building stock model - state indicators										
Roof	1,00	0,44	0,33	1,09	0,45	0,34					W/(m ² K)
Wall	1,40	0,60	0,28	1,35	0,68	0,39					W/(m ² K)
Window	2,70	2,70	1,60	2,70	2,70	1,60					W/(m ² K)
Floor	1,24	0,68	0,41	1,45	0,69	0,43					W/(m ² K)

Refurbishments (averages)

Refurbished fraction of envelope areas	Building stock model - state indicators										
Roof	47%	24%		48%	23%						
Wall	20%	7%		26%	15%						
Window	36%	12%		45%	24%						
Floor	10%	3%		11%	7%						
<i>Total (indicative)</i>	<i>27%</i>	<i>12%</i>		<i>30%</i>	<i>16%</i>						

U-values of the refurbished fraction (averages)	Building stock model - state indicators										
Roof	0,28	0,28		0,28	0,28						W/(m ² K)
Wall	0,37	0,37		0,37	0,37						W/(m ² K)
Window	1,60	1,60		1,60	1,60						W/(m ² K)
Floor	0,39	0,39		0,39	0,39						W/(m ² K)

Energy Need for Heating TABULA

Utilisation

	TABULA standard calculation procedure										
Utilisation dataset	EU.SUH	EU.SUH	EU.SUH	EU.MUH	EU.MUH	EU.MUH					
Internal temperature	20,0	20,0	20,0	20,0	20,0	20,0					°C
Reduction factor temp.	0,86	0,88	0,93	0,93	0,94	0,97					
Air exchange rate (use)	0,40	0,40	0,40	0,40	0,40	0,40					1/h
Internal heat sources	3,00	3,00	3,00	3,00	3,00	3,00					W/m ²
Red. factor ext. shading	0,60	0,60	0,60	0,60	0,60	0,60					
Energy need for DHW	10,0	10,0	10,0	15,0	15,0	15,0					kWh/(m ² a)

Climate

	TABULA standard calculation procedure										
Climate dataset	2009 Potsdam	2009 Potsdam	2009 Potsdam	2009 Potsdam	2009 Potsdam	2009 Potsdam					
Base temperature	12,0	12,0	12,0	12,0	12,0	12,0					°C
Length of heating season	203	203	203	203	203	203					d/a
External temp. during HS	4,1	4,1	4,1	4,1	4,1	4,1					
Accum. temp. diff. ext. to int. temp.	3228	3228	3228	3228	3228	3228					Kd/a

Envelope

	TABULA standard calculation procedure										
Heat transfer by transmission	339	240	131	700	893	542					W/K
related to surface area	0,93	0,66	0,43	0,99	0,76	0,52					W/(m ² K)
related to ref. floor area	2,30	1,59	0,87	1,54	1,33	0,83					W/(m ² K)

Annual energy balance building

	TABULA standard calculation procedure										
Transmission heat losses	152,8	108,3	62,4	111,3	97,0	62,3					kWh/(m ² a)
Ventilation heat losses	33,8	34,8	36,6	36,8	37,1	38,2					kWh/(m ² a)
Usable solar gains	-8,6	-9,1	-9,7	-8,2	-9,8	-11,1					kWh/(m ² a)
Usable internal gains	-13,8	-13,8	-13,8	-13,9	-13,8	-13,8					kWh/(m ² a)
Energy need for heating	164,3	120,3	75,5	126,0	110,5	75,7					kWh/(m ² a)
recovered by vent. system											kWh/(m ² a)
Net energy need for heating	164,3	120,3	75,5	126,0	110,5	75,7					kWh/(m ² a)



Building Stock **DE National** German residential building stock Year 2009

Details IWU Model, representing the year 2009, elaborated in 2015 / Source: EPISCOPE national report (2015)

Annotations to this sheet Simplification: percentages of heat supply systems from national statistics are considered equal to fractions of produced heat

	1	2	3	4	5	6	7	8	9	10
Building type	SUH I	SUH II	SUH III	MFH I	MFH II	MFH III				

Total Building Stock

	Building stock model - state indicators										Total	
Number of buildings	10 ³	9 490	3 041	2 992	2 432	407	296					18 659
Number of dwellings	10 ³	11 465	3 352	3 128	14 744	3 548	2 348					38 585
Floor area national	10 ⁶ m ²	1 269	418	409	1 003	248	176					3 522
Floor area TABULA	10 ⁶ m ²	1 396	459	450	1 103	273	193					3 874

Ventilation Systems with Heat Recovery

Occurrences	Building stock model - state indicators									
	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%

Heating Systems

Occurrences or Fractions of Produced Heat Building stock model - state indicators

1	DH	TS	C	1%	2%	3%	12%	22%	11%						
2	Gas	B_NC_LT	C	41%	43%	59%	51%	61%	76%						
3	Oil	B_NC_LT	C	37%	37%	17%	25%	13%	5%						
4	Bio	B_WP	C	4%	3%	3%	2%	0%	3%						
5	El	HP_Air	C	1%	2%	5%	1%		1%						
6	Gas	G_SH	D	1%			1%	0%							
7	Oil	Stove_L	D	1%	0%	0%	1%	0%							
8	Bio	Stove_S	D	4%	0%	1%	1%								
9	Coal	Stove_S	D	1%			1%								
10	El	E_SH	D	3%	3%	1%	2%	2%	0%						
11	Bio_W	Stove_S	D	6%	8%	7%	2%	1%	1%						
12	El	Vent_Rec	C	1%	2%	3%	0%	0%	1%						
13	-	Solar	D	0%	0%	1%	0%	0%	1%						
14															
15															
16															
17															
18															
19															
20															
Sum				100%	100%	100%	100%	100%	100%						
thereof central				85%	88%	90%	92%	96%	98%						
decentral				15%	12%	10%	8%	4%	2%						
Other Systems				0%	0%	-0%	0%		0%						

DHW Systems

Occurrences or Fractions of Produced Heat Building stock model - state indicators

1	DH	TS	C	1%	2%	3%	9%	16%	10%						
2	Gas	B_NC_LT	C	35%	40%	56%	38%	44%	66%						
3	Oil	B_NC_LT	C	32%	34%	16%	18%	9%	4%						
4	Bio	B_WP	C	3%	3%	2%	2%	0%	3%						
5	El	HP_Air	C	1%	1%	5%	1%		1%						
6	El	HP_Cellar	C	0%	0%	1%									
7	El	E_IWH	D	19%	8%	5%	25%	29%	13%						
8	Gas	G_IWH_NC	D	2%	0%	0%	6%	1%	1%						
9	Gas	G_Tank	D	4%	5%	2%	1%	1%							
10	-	Solar	D	3%	6%	9%	0%	0%	2%						
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
Sum				100%	100%	100%	100%	100%	100%						
thereof central				72%	81%	84%	67%	69%	84%						
decentral				28%	19%	16%	33%	31%	16%						
Other Systems				0%	0%	0%	0%	0%	0%						



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Annotations to this sheet

	1	2	3	4	5	6	7	8	9	10
Building type	SUH I	SUH II	SUH III	MFH I	MFH II	MFH III				

Heating Systems

Heat demand / heat generation							TABULA standard calculation procedure				
Energy need for heating	164,3	120,3	75,5	126,0	110,5	75,7					kWh/(m ² a)
Net en. need for heating	164,3	120,3	75,5	126,0	110,5	75,7					kWh/(m ² a)
Distribution + storage losses							TABULA system indicators				
Central systems	C	19,9	19,9	10,7	15,1	15,1	5,7				kWh/(m ² a)
Decentral systems	D										kWh/(m ² a)
Auxiliary energy							TABULA system indicators				
Ventil. systems (average)											kWh/(m ² a)
Central systems	C	6,1	6,1	6,1	1,8	1,8	1,8				kWh/(m ² a)
Decentral systems	D										kWh/(m ² a)

Energy expenditure factors (fuels: related to gross calorific value)							TABULA system indicators						
1	DH	TS	C	1,02	1,02	1,02	1,02	1,02	1,02				
2	Gas	B NC LT	C	1,23	1,23	1,23	1,18	1,18	1,18				
3	Oil	B NC LT	C	1,29	1,29	1,29	1,18	1,18	1,18				
4	Bio	B WP	C	1,37	1,37	1,37	1,25	1,25	1,25				
5	El	HP Air	C	0,35	0,35	0,35	0,35	0,35	0,35				
6	Gas	G SH	D	1,40	1,40	1,40	1,40	1,40	1,40				
7	Oil	Stove L	D	1,40	1,40	1,40	1,40	1,40	1,40				
8	Bio	Stove S	D	1,60	1,60	1,60	1,60	1,60	1,60				
9	Coal	Stove S	D	1,60	1,60	1,60	1,60	1,60	1,60				
10	El	E SH	D	1,00	1,00	1,00	1,00	1,00	1,00				
11	Bio W	Stove S	D	1,60	1,60	1,60	1,60	1,60	1,60				
12	El	Vent Rec	C	0,10	0,10	0,10	0,10	0,10	0,10				
13	-	Solar	D										
14													
15													
16													
17													
18													
19													
20													

Delivered Energy							TABULA standard calculation procedure						
1	DH	TS	C	187,9	143,0	87,9	143,9	128,1	83,0				kWh/(m ² a)
2	Gas	B NC LT	C	226,6	172,4	106,0	166,5	148,2	96,0				kWh/(m ² a)
3	Oil	B NC LT	C	237,6	180,8	111,2	166,5	148,2	96,0				kWh/(m ² a)
4	Bio	B WP	C	252,4	192,0	118,1	176,4	157,0	101,7				kWh/(m ² a)
5	El	HP Air	C	64,5	49,1	30,2	49,4	43,9	28,5				kWh/(m ² a)
6	Gas	G SH	D	230,0	168,4	105,7	176,4	154,6	105,9				kWh/(m ² a)
7	Oil	Stove L	D	230,0	168,4	105,7	176,4	154,6	105,9				kWh/(m ² a)
8	Bio	Stove S	D	262,9	192,4	120,8	201,6	176,7	121,1				kWh/(m ² a)
9	Coal	Stove S	D	262,9	192,4	120,8	201,6	176,7	121,1				kWh/(m ² a)
10	El	E SH	D	164,3	120,3	75,5	126,0	110,5	75,7				kWh/(m ² a)
11	Bio W	Stove S	D	262,9	192,4	120,8	201,6	176,7	121,1				kWh/(m ² a)
12	El	Vent Rec	C	18,4	14,0	8,6	14,1	12,6	8,1				kWh/(m ² a)
13	-	Solar	D										kWh/(m ² a)
14													kWh/(m ² a)
15													kWh/(m ² a)
16													kWh/(m ² a)
17													kWh/(m ² a)
18													kWh/(m ² a)
19													kWh/(m ² a)
20													kWh/(m ² a)

Delivered Energy - weighted by frequencies							TABULA standard calculation procedure						
1	DH	TS	C	2,5	3,0	2,8	16,9	28,2	9,4				kWh/(m ² a)
2	Gas	B NC LT	C	92,6	74,6	62,5	85,6	90,8	72,8				kWh/(m ² a)
3	Oil	B NC LT	C	87,7	66,0	18,5	41,7	18,6	4,9				kWh/(m ² a)
4	Bio	B WP	C	9,7	5,2	3,0	4,0	0,8	3,2				kWh/(m ² a)
5	El	HP Air	C	0,6	0,8	1,6	0,6	0,6	0,4				kWh/(m ² a)
6	Gas	G SH	D	3,0			2,1	0,2					kWh/(m ² a)
7	Oil	Stove L	D	3,0	0,5	0,2	1,6	0,2					kWh/(m ² a)
8	Bio	Stove S	D	9,4	0,5	0,9	2,6						kWh/(m ² a)
9	Coal	Stove S	D	1,7			1,2						kWh/(m ² a)
10	El	E SH	D	4,5	4,0	0,9	2,6	2,7	0,3				kWh/(m ² a)
11	Bio W	Stove S	D	14,7	16,1	8,7	3,9	1,4	1,4				kWh/(m ² a)
12	El	Vent Rec	C	0,1	0,2	0,3	0,0	0,0	0,1				kWh/(m ² a)
13	-	Solar	D										kWh/(m ² a)
14													kWh/(m ² a)
15													kWh/(m ² a)
16													kWh/(m ² a)
17													kWh/(m ² a)
18													kWh/(m ² a)
19													kWh/(m ² a)
20													kWh/(m ² a)

Electricity production by CHP							TABULA standard calculation procedure						
													kWh/(m ² a)
													kWh/(m ² a)
													kWh/(m ² a)
													kWh/(m ² a)



Building Stock	DE National	German residential building stock	Year	2009
Details	IWU Model, representing the year 2009, elaborated in 2015 / Source: EPISCOPE national report (2015)			

Annotations to this sheet

	1	2	3	4	5	6	7	8	9	10
Building type	SUH I	SUH II	SUH III	MFH I	MFH II	MFH III				

DHW Systems

Heat demand / heat generation							TABULA standard calculation procedure				
Energy need for DHW	10,0	10,0	10,0	15,0	15,0	15,0					kWh/(m ² a)
Distribution + storage losses							TABULA system indicators				
Central systems	C	18,2	18,2	18,2	11,4	11,4	11,4				kWh/(m ² a)
Decentral systems	D	4,6	4,6	4,6	4,6	4,6	4,6				kWh/(m ² a)
Auxiliary energy							TABULA system indicators				
Central systems	C	0,4	0,4	0,4	0,8	0,8	0,8				kWh/(m ² a)
Decentral systems	D										kWh/(m ² a)

Energy expenditure factors (fuels: related to gross calorific value) TABULA system indicators

1	DH	TS	C	1,14	1,14	1,14	1,14	1,14	1,14			
2	Gas	B NC LT	C	1,27	1,27	1,27	1,20	1,20	1,20			
3	Oil	B NC LT	C	1,35	1,35	1,35	1,20	1,20	1,20			
4	Bio	B WP	C	1,63	1,63	1,63	1,32	1,32	1,32			
5	EI	HP Air	C	0,38	0,38	0,38	0,38	0,38	0,38			
6	EI	HP Cellar	C	0,39	0,39	0,39	0,39	0,39	0,39			
7	EI	E IWH	D	1,00	1,00	1,00	1,00	1,00	1,00			
8	Gas	G IWH NC	D	1,35	1,31	1,31	1,35	1,31	1,31			
9	Gas	G Tank	D	1,34	1,34	1,34	1,34	1,34	1,34			
10	-	Solar	D									
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Delivered Energy TABULA standard calculation procedure

1	DH	TS	C	32,1	32,1	32,1	30,1	30,1	30,1				kWh/(m ² a)
2	Gas	B NC LT	C	35,8	35,8	35,8	31,7	31,7	31,7				kWh/(m ² a)
3	Oil	B NC LT	C	38,1	38,1	38,1	31,7	31,7	31,7				kWh/(m ² a)
4	Bio	B WP	C	46,0	46,0	46,0	34,8	34,8	34,8				kWh/(m ² a)
5	EI	HP Air	C	10,7	10,7	10,7	10,0	10,0	10,0				kWh/(m ² a)
6	EI	HP Cellar	C	11,0	11,0	11,0	10,3	10,3	10,3				kWh/(m ² a)
7	EI	E IWH	D	14,6	14,6	14,6	19,6	19,6	19,6				kWh/(m ² a)
8	Gas	G IWH NC	D	19,7	19,1	19,1	26,5	25,7	25,7				kWh/(m ² a)
9	Gas	G Tank	D	19,6	19,6	19,6	26,3	26,3	26,3				kWh/(m ² a)
10	-	Solar	D										kWh/(m ² a)
11													kWh/(m ² a)
12													kWh/(m ² a)
13													kWh/(m ² a)
14													kWh/(m ² a)
15													kWh/(m ² a)
16													kWh/(m ² a)
17													kWh/(m ² a)
18													kWh/(m ² a)
19													kWh/(m ² a)
20													kWh/(m ² a)

Delivered Energy - weighted by frequencies TABULA standard calculation procedure

1	DH	TS	C	0,4	0,6	1,0	2,6	4,7	3,0				kWh/(m ² a)
2	Gas	B NC LT	C	12,5	14,5	20,2	11,9	13,9	20,9				kWh/(m ² a)
3	Oil	B NC LT	C	12,0	13,0	6,0	5,8	2,8	1,4				kWh/(m ² a)
4	Bio	B WP	C	1,5	1,2	1,1	0,6	0,1	0,9				kWh/(m ² a)
5	EI	HP Air	C	0,1	0,2	0,6	0,1		0,1				kWh/(m ² a)
6	EI	HP Cellar	C	0,1	0,1	0,1							kWh/(m ² a)
7	EI	E IWH	D	2,7	1,2	0,8	4,9	5,6	2,5				kWh/(m ² a)
8	Gas	G IWH NC	D	0,5	0,1	0,1	1,6	0,2	0,2				kWh/(m ² a)
9	Gas	G Tank	D	0,7	0,9	0,3	0,3	0,3					kWh/(m ² a)
10	-	Solar	D										kWh/(m ² a)
11													kWh/(m ² a)
12													kWh/(m ² a)
13													kWh/(m ² a)
14													kWh/(m ² a)
15													kWh/(m ² a)
16													kWh/(m ² a)
17													kWh/(m ² a)
18													kWh/(m ² a)
19													kWh/(m ² a)
20													kWh/(m ² a)

Electricity production by CHP TABULA standard calculation procedure

													kWh/(m ² a)
													kWh/(m ² a)
													kWh/(m ² a)
													kWh/(m ² a)



Building Stock	DE	National	German residential building stock	Year	2009
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Annotations to this sheet

Total Building Stock

	1	2	3	4	5	6	7	8	9	10	Total	
Building type	SUH I	SUH II	SUH III	MFH I	MFH II	MFH III						
Floor area TABULA	10 ⁶ m ²	1 396	459	450	1 103	273	193	0	0	0	0	3 874

All energy quantities in **GWh/a**

Heating Systems

Heat Demand for Heating	TABULA standard calculation procedure / projection to building stock										Total	
Energy need for heating	229 331	55 231	33 958	139 061	30 126	14 612						502 320
Net en. need for heating	229 331	55 231	33 958	139 061	30 126	14 612						502 320
Produced heat	252 823	63 253	38 302	154 369	34 100	15 687						558 534

Delivered Energy TABULA	TABULA standard calculation procedure / projection to building stock										Sum		
1	DH	TS	C	3 440	1 359	1 265	18 661	7 678	1 809				34 211
2	Gas	B_NC_LT	C	129 178	34 263	28 134	94 446	24 766	14 057				324 844
3	Oil	B_NC_LT	C	122 429	30 332	8 310	46 054	5 081	938				213 143
4	Bio	B_WP	C	13 530	2 380	1 369	4 383	212	612				22 486
5	El	HP_Air	C	843	345	735	694	0	75				2 692
6	Gas	G_SH	D	4 211	0	0	2 287	42	0				6 540
7	Oil	Stove_L	D	4 211	209	84	1 715	42	0				6 262
8	Bio	Stove_S	D	13 063	239	386	2 832	0	0				16 520
9	Coal	Stove_S	D	2 406	0	0	1 307	0	0				3 713
10	El	E_SH	D	6 231	1 839	392	2 859	746	57				12 123
11	Bio_W	Stove_S	D	20 461	7 379	3 893	4 281	386	267				36 666
12	El	Vent_Rec	C	188	108	133	22	5	15				471
13	-	Solar	D	0	0	0	0	0	0				0
14													
15													
16													
17													
18													
19													
20													
	Not specified systems			645	0	0	272	0	43				960
	Auxiliary energy			7 201	2 459	2 476	1 825	474	339				14 774
	CHP electr. production												0

DHW Systems

Heat Demand for DHW	TABULA standard calculation procedure / projection to building stock										Total	
Energy need for DHW	13 957	4 593	4 499	16 552	4 091	2 897						46 588
Produced heat	34 052	11 750	11 677	26 664	6 620	4 889						95 652

Delivered Energy TABULA	TABULA standard calculation procedure / projection to building stock										Total		
1	DH	TS	C	502	285	442	2 855	1 287	571				5 943
2	Gas	B_NC_LT	C	17 428	6 642	9 085	13 150	3 779	4 033				54 117
3	Oil	B_NC_LT	C	16 742	5 959	2 720	6 412	775	269				32 877
4	Bio	B_WP	C	2 103	532	509	634	34	182				3 994
5	El	HP_Air	C	120	70	250	103	0	23				566
6	El	HP_Cellar	C	74	24	27	0	0	0				125
7	El	E_IWH	D	3 786	529	353	5 445	1 537	491				12 141
8	Gas	G_IWH_NC	D	679	25	31	1 772	56	29				2 592
9	Gas	G_Tank	D	991	430	152	317	86	0				1 976
10	-	Solar	D	0	0	0	0	0	0				0
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
	Not specified systems			4	6	2	6	1	0				19
	Auxiliary energy			402	148	150	593	150	130				1 573
	CHP electr. production												0



Building Stock	DE National	German residential building stock	Year	2009
Details	IWU Model, representing the year 2009, elaborated in 2015 / Source: EPISCOPE national report (2015)			
Annotations to this sheet	Final energy 2009 from national report (in SR3 energy balance indicators are only presented for the year 2015, including added new build)			

Total Building Stock	1	2	3	4	5	6	7	8	9	10	Total	
Building type	SUH I	SUH II	SUH III	MFH I	MFH II	MFH III						
Floor area TABULA	10 ⁶ m ²	1 396	459	450	1 103	273	193	0	0	0	0	3 874

Total Heat Need and Final Energy

All energy quantities in **GWh/a**

Heating + DHW

Simplified TABULA projection	fuels related to gross calorific value (TABULA standard)							TABULA standard calculation procedure projection to building stock				Total	per m ²
Net heat need	243 288	59 823	38 457	155 613	34 217	17 509						548 908	142
Produced heat	286 876	75 003	49 979	181 033	40 720	20 576						654 186	169
Gas	152 487	41 360	37 403	111 972	28 728	18 119						390 069	101
Oil	143 381	36 499	11 114	54 181	5 898	1 208						252 282	65
Coal	2 406	0	0	1 307	0	0						3 713	1
Bio	49 158	10 530	6 157	12 129	631	1 061						79 665	21
DH	3 942	1 644	1 707	21 516	8 965	2 380						40 154	10
El (incl. aux. en.)	18 845	5 522	4 516	11 540	2 912	1 131						44 465	11
Other / not specified	648	6	2	278	1	43						978	0
Sum final energy	370 869	95 561	60 898	212 924	47 134	23 941	0	0	0	0	0	811 327	209
per m ²	266	208	135	193	173	124							
CHP electr. production	0	0	0	0	0	0						0	0

Separate individual model or total metered consumption

Output of IWU Model, close to official statistics of sector, but not calibrated

Separate individual model or total metered consumption	fuels related to net calorific value							Individual building stock model				Total	per m ²
	factors for conversion to gross calorific value (TABULA standard)												
Net heat need	1,09	1,05	1,05	1,05								490 536	127
Produced heat												567 206	146
Gas	1,09	1,05	1,05	1,05								295 185	76
Oil		1,05	1,05	1,05								186 644	48
Coal		1,05	1,05	1,05								3 058	1
Bio		1,05	1,05	1,05								54 679	14
DH												34 028	9
El												31 350	8
Other / not specified												0	0
Sum final energy												604 943	156
per m ²													
CHP electr. production												0	0

Ratio of individual model or total metered consumption to simplified TABULA projection (TABULA balance calibration factors)

								Total
Net heat need	94%	91%	86%	86%	81%	76%		89%
Produced heat	90%	85%	79%	86%	80%	83%		87%
Gas	84%	80%	73%	84%	79%	81%		82%
Oil	78%	74%	68%	82%	78%	79%		78%
Coal	97%			68%				87%
Bio	72%	74%	67%	73%	73%	77%		72%
DH	90%	88%	87%	86%	79%	82%		85%
El	70%	62%	54%	80%	76%	80%		71%
Other	0%	0%	0%	0%	0%	0%		0%
Sum final energy	75%	72%	66%	78%	74%	76%		75%
CHP electr. production								