

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

orten (HGW) des Meteorologischen Instituts der Freien Universität Berlin

(3600 IM) 2017 1,06 (3575) LM
 (3600 IM) 2018 1,09 (3495) LM
 (3600 IM) 2019 1,09 SenUMVK
 (3575) LM 2020 1,11 SenUMVK
 (3575) LM 2021 0,97 SenUMVK
 (3575) LM 2022 1,08 SenUMVK

2021 kWh/a	Fernwärmeanschlussleistung																	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr
	2005 kW	2006 kW	2007 kW	2008 kW	2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2019 kW	2020 kW	2021 kW							
3.757.825 1.098.699	1.670	1.670	1.670	1.671	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.593	1.631	1.631	1.631	242.994 128.377	259.944 127.349	261.034 155.490	245.210 160.849	238.391 166.712	258.525 191.260	273.972 219.671
436.827 44.000	218	218	268	244	225	225	225	225	225	225	225	225	160	160	160	160	160	33.517 7.385	33.965 6.910	38.225 7.024	27.571 6.693	35.328 6.749	37.937 6.142	32.348 7.387
1.435.552 609.279	1.010	1.010	950	920	530	680	610	610	610	610	610	610	610	547	530	530	530	130.724 58.117	140.228 61.472	129.019 70.472	107.577 70.573	114.412 76.571	106.605 87.487	107.547 93.104
100.392 44.000	52	52	52	52	52	52	52	52	45	45	45	45	45	45	45	45	45	6.928 3.282	6.851 3.256	8.869 3.814	7.938 5.039	8.532 4.767	7.974 4.767	8.554 5.039
5.730.595 1.795.978	2.950	2.950	2.940	2.887	2.477	2.627	2.557	2.557	2.550	2.550	2.550	2.550	2.485	2.345	2.366	2.366	2.366	414.162 197.161	440.988 198.987	437.146 236.800	388.296 243.154	396.663 254.799	411.040 289.656	422.421 325.201
7.526.573	2.950	2.950	2.940	2.887	2.477	2.627	2.557	2.557	2.550	2.550	2.550	2.550	2.485	2.345	2.366	2.366	2.366	611.323	639.975	673.946	631.450	651.462	700.696	747.622
563.751 79.496	250	250	250	250	240	271	271	271	298	298	298	298	298	290	290	290	299	47.661 17.081	52.792 18.628	61.345 23.811	54.238 23.375	53.862 33.448	42.438 24.539	44.222 26.633
324.398 54.617	230	230	208	185	185	185	185	185	185	185	185	185	185	201	178	178	178	35.597 8.584	37.891 10.083	37.007 9.381	29.654 8.929	32.355 8.475	29.937 10.979	30.904 11.603
525.369 64.050	625	310	310	310	310	310	310	310	310	310	310	310	310	281	283	281	210	46.010 11.346	50.631 14.844	60.969 13.849	44.143 13.685	50.742 14.243	48.510 14.497	49.479 17.496
433.200 45.500	290	290	270	250	186	186	250	250	230	230	205	205	205	203	201	203	203	34.839 11.346	38.153 14.843	34.532 13.849	28.809 13.685	34.059 14.242	37.013 14.497	35.539 8.166
724.611 129.850	515	515	497	444	444	444	444	390	370	424	424	424	370	334	334	334	336	82.364 26.000	83.292 28.000	79.084 35.000	59.457 36.400	66.745 37.300	64.887 39.375	62.865 42.481
659.041 89.997	522	511	454	381	366	366	350	350	350	350	350	350	350	336	336	336	336	73.412 20687	77.257 19304	75.778 20.995	53.747 19.977	61.291 18.260	58.924 18.344	64.140 20.896
412.997 72.545	226	211	195	195	225	225	225	225	225	225	225	225	225	182	182	182	182	38.933 10.686	39.009 12.782	40.074 11.780	38.075 10.884	47.050 12.795	43.340 16.830	42.297 15.700
613.937 60.805																		51.542 6.351	48.883 8.389	56.090 7.482	57.498 9.974	53.702 10.606	35.793 9.661	39.746 11.036
603.457 100.300	453	427	404	308	350	360	360	360	340	340	340	340	340	328	327	339	339	57.132 13.568	57.583 13.148	56.037 11.278	39.516 11.484	46.549 11.775	47.158 10.859	49.237 14.903
635.327 64.250	380	362	321	281	281	282	265	265	265	265	265	265	265	253	253	253	261	48.740 10.611	55.456 9.713	55.067 11.625	43.172 11.771	45.764 12.071	43.956 10.048	47.872 17.900
1.106.559 42.442	633	595	595	595	595	595	595	595	595	595	574	574	574	493	499	499	537	85.295 22.902	94.038 26.587	101.078 26.129	83.042 27.955	91.110 25.320	89.070 21.932	98.906 21.810
500.028	363	363	330	297	297	297	288	288	265	194	244	244	244	176	176	176	176	44.350	50.827	50.046	43.276	45.171	39.629	43.544

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2021 kWh/a	Fernwärmeanschlussleistung																	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr
	2005 kW	2006 kW	2007 kW	2008 kW	2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2019 kW	2020 kW	2021 kW							
70.750																		11.018	11.885	15.317	19.885	24.098	25.247	14.628
903.452	434	434	370	359	359	359	359	359	359	359	359	360	359	348	348	348	348	61.257	64.128	61.021	47.560	55.000	51.941	57.611
205.541																		53.132	50.582	40.048	39.119	37.046	39.789	39.915
636.278	459	459	401	372	372	457	457	457	437	437	437	437	330	374	318	318	324	61.469	63.005	59.736	47.792	52.110	61.558	64.398
78.213																		7.533	8.013	11.021	17.357	20.349	21.397	28.684
644.917																		46.932	47.254	34.433	47.387	48.132	38.033	37.123
70.137																		12.357	16.261	12.185	13.187	13.889	14.513	18.689
541.390																		36.201	41.263	36.792	48.064	44.345	33.234	39.548
90.759																		20.961	19.249	19.395	15.407	17.528	21.583	22.308
526.740	335	215	215	215	215	215	215	215	215	215	195	195	195	180	180	180	191	34.979	35.358	41.707	40.277	41.829	39.315	46.430
60.700																		8.922	15.623	6.477	6.907	7.779	9.821	10.575
619.621	382	382	362	352	352	352	332	332	332	332	332	332	332	324	325	325	325	57.603	57.601	57.221	46.119	50.978	48.126	50.356
126.500																		12.968	12.871	14.446	13.464	15.909	19.305	16.557
614.623	355	355	326	295	295	295	280	285	280	280	280	280	280	262	262	262	265	51.544	53.123	49.031	40.145	43.917	42.352	45.751
77.200																		9.344	9.370	9.610	10.192	9.990	11.926	13.895
782.260	658	360	360	360	360	360	330	330	330	365	365	365	365	328	328	328	351	67.091	82.586	86.018	63.473	62.565	56.813	53.241
117.600																		25.312	29.691	27.273	25.852	30.212	32.070	35.353
845.706	415	415	415	415	415	415	388	388	388	388	388	388	388	328	328	328	351	70.278	75.037	85.553	72.685	74.715	67.522	78.518
164.709																		21.977	20.730	24.012	38.226	31.098	34.915	39.400
690.316	305	284	284	284	284	284	437	437	437	437	437	437	437	402	402	402	420	41.401	41.920	51.924	45.759	53.073	58.064	67.886
55.950																		21.448	20.234	23.460	17.427	18.075	23.813	29.453
508.598	313	305	288	280	280	280	260	260	260	260	260	260	260	244	244	244	256	49.526	50.493	47.009	38.853	44.749	43.128	45.522
71.150																		11.934	13.680	12.761	15.724	14.106	14.255	16.967
710.593																		44.213	49.486	48.908	48.825	46.396	38.012	46.879
207.818																		13.398	18.404	43.694	16.238	15.556	20.110	14.386
1.504.323																		107.827	122.628	113.589	161.127	143.030	115.567	113.286
345.756																		68.887	70.807	81.836	83.127	91.278	106.995	114.300
712.148	440	440	378	315	315	315	300	300	310	290	290	290	290	272	273	272	276	66.790	71.387	64.001	49.322	53.925	49.399	52.068
69.751																		11.588	10.557	13.258	13.559	16.585	15.694	17.232
1.494.173										1.247	1.247	1.090	1.090	1.090	1.090	1.090	952	100.618	110.894	123.399	129.265	145.614	182.766	173.484
283.242																		49.151	51.592	62.453	61.983	62.494	71.369	75.211
643.591	750	569	385	200	200	200	200	200	200	200	200	200	200	198	198	198	198	69.516	50.926	47.570	38.398	41.683	40.713	38.744
52.000																		352	368	335	321	11.852	18.187	15.718
803.045	357	357	341	325	325	325	300	300	300	300	300	300	300	307	308	308	308	68.345	63.635	63.226	49.725	58.692	55.525	52.999
106.860																		10.564	12.996	12.213	12.187	12.214	15.637	15.715
507.179	279	279	279	279	275	279	279	279	299	279	279	279	279	243	243	243	243	39.879	43.570	50.366	44.626	47.304	39.681	44.752
269.629																		13.000	14.300	17.700	18.500	19.000	21.202	22.874
818.511	714	654	676	430	430	400	330	330	330	330	330	330	330	312	313	313	326	78.872	87.734	76.438	53.826	56.675	48.079	45.975
132.049																		16.187	16.374	17.560	14.666	18.054	18.663	26.524
802.562	526	519	519	519	519	519	519	519	519	519	519	519	519	410	410	410	430	68.127	71.462	77.553	61.620	69.187	68.096	69.762
187.512																		33.928	27.006	31.775	34.785	36.928	35.803	40.589
536.685	495	403	300	310	310	310	310	300	290	290	290	290	290	249	249	249	249	50.833	48.322	55.497	52.327	62.047	51.031	53.149
688.294	368	249	249	249	249	249	262	262	262	262	262	262	262	256	256	256	256	37.716	38.858	45.017	35.905	36.318	35.156	38.846
228.213																		42.970	35.460	43.984	31.093	48.686	58.176	61.286

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	2005 kW	2006 kW	2007 kW	2008 kW	2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2019 kW	2020 kW	2021 kW							
317.329 52.600	255	215	215	215	215	215	190	190	180	180	180	180	180	166	166	166	159	31.481 6.389	36.048 7.452	37.715 8.822	28.908 7.724	31.128 9.119	27.538 10.455	30.332 10.445
1.036.538 274.987	484	469	469	469	469	469	469	469	469	479	469	469	469	437	437	437	441	70.745 30.382	73.366 31.117	80.777 39.273	67.641 39.357	74.388 41.192	66.666 40.989	79.145 46.256
774.684 109.103	447	447	447	447	447	447	425	425	425	425	425	460	460	414	414	414	425	72.688 24.098	78.461 23.293	84.754 25.267	72.598 33.647	82.801 25.505	71.615 24.265	75.791 29.161
764.796 95.418																		66.138 35.201	61.098 28.742	49.978 25.111	65.911 24.431	45.782 24.053	48.117 25.624	52.660 27.723
265.281																		30.259	30.223	30.824	39.370	36.403	22.277	18.121
527.373 83.683	602	574	574	321	321	321	321	321	315	315	315	315	315	297	297	297	306	69.713 18.472	73.709 18.593	56.698 19.889	53.521 23.176	55.694 18.251	52.780 19.865	60.113 19.759
446.193 55.600	257	257	233	210	210	210	200	200	165	165	165	165	165	156	156	156	158	33.489 8.135	36.947 10.898	35.497 10.309	26.922 10.150	33.385 10.848	32.984 9.699	33.178 10.540
1.074.019 199773	490	490	475	460	460	460	440	440	425	425	443	443	443	422	422	422	422	80.351 34.275	89.651 35.138	63.932 39.990	79.208 53.686	85.846 37.118	80.218 36.949	85.423 46.903
564.262 99.580	470	470	457	410	410	410	390	390	364	364	364	364	364	278	278	278	351	69.184 19.272	58.238 17.813	59.867 18.429	43.174 26.492	49.091 18.764	44.624 18.153	47.167 21.646
97.424																		14.298	15.070	11.657	17.364	19.070	14.191	14.903
1.139.062 243.431																		105.472 33.210	121.212 37.524	113.328 50.126	144.866 42.704	153.862 47.402	102.570 52.200	102.242 53.585
1.461.530	762	762	762	762	762	762	826	826	826	826	826	896	896	788	788	788	788	104.147	111.351	126.959	115.943	125.263	98.093	99.196
32.106.174 5.090.066	15.837	14.427	13.612	12.349	12.328	12.429	12.362	12.303	12.150	13.385	12.989	12.938	12.776	11.835	11.765	11.775	11.823	2.704.858 845.527	2.841.855 872.944	2.835.102 963.208	2.593.132 968.692	2.753.399 1.003.513	2.506.442 1.080.230	2.623.350 1.164.901
37.196.240	15.837	14.427	13.612	12.349	12.328	12.429	12.362	12.303	12.150	13.385	12.989	12.938	12.776	11.835	11.765	11.775	11.823	3.550.385	3.714.799	3.798.310	3.561.824	3.756.912	3.586.672	3.788.251
332.199 45.792	208	208	208	208	208	208	208	208	208	208	208	208	208	151	151	151	196	28.756 7.520	31.134 7.269	31.705 6.000	29.678 5.577	27.326 5.768	24.618 8.835	25.940 11.399
155.869 19.418	181	146	146	146	146	146	146	146	146	146	146	146	146	69	69	69	128	16.371 6.291	14.857 2.372	15.381 4.207	13.885 3.776	14.551 3.807	13.294 5.013	15.135 5.192
534.739 65.596	277	277	277	277	277	277	277	277	277	277	277	277	277	269	269	269	269	41.046 10.742	42.104 9.426	44.220 9.800	38.776 10.900	44.139 9.900	43.059 12.983	45.778 17.043
358.627 44.405	244	244	244	244	196	196	196	196	196	196	196	196	196	169	169	169	169	29.696 4.695	34.336 6.642	20.072 5.391	23.458 6.284	25.085 5.490	26.822 4.097	26.980 5.468
282.868 30.600	289	289	289	289	214	214	214	214	214	214	214	214	214	149	149	149	198	29.247 4.309	31.901 4.660	32.441 5.017	29.305 5.100	28.529 5.100	26.305 8.906	27.533 9.038
1.703.720 72.977																		107.701 3.780	124.760 13.015	103.371 13.000	139.970 13.000	115.761 13.000	76.455 14.386	94.507 16.142
194.349 20.150																		12.166 6.980	9.823 7.377	5.989 10.227	21.022 8.204	17.595 6.824	17.617 8.093	14.863 7.313
122.319 8.307	91	91	70	48	48	48	48	48	48	48	48	46	46	48	48	48	48	10.446 3.048	10.889 3.737	8.229 3.800	8.568 4.060	9.252 3.574	8.714 2.948	9.619 3.148
171.651	125	125	125	65	65	65	65	65	65	65	65	65	65	64	64	64	64	17.737	16.273	14.103	12.931	14.661	13.052	14.287

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2021 kWh/a	Fernwärmeanschlussleistung																	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr
	2005 kW	2006 kW	2007 kW	2008 kW	2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2019 kW	2020 kW	2021 kW							
699.137 78.102	202	202	202	202	202	202	202	202	202	202	202	202	202	198	198	198	198	39.233 17.008	41.404 18.848	45.820 21.109	42.335 30.372	45.354 22.212	39.381 19.566	43.929 23.680
251.347 21.200																		17.842 4.517	18.284 5.436	17.942 5.618	22.658 5.391	19.910 6.265	14.259 9.464	14.824 7.848
37.927 4.703																		3.018 1.480	3.401 1.466	3.200 1.842	3.200 1.986	3.352 1.697	2.260 1.825	2.921 1.838
4.844.753 411.250	1.617	1.582	1.561	1.479	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.354	1.354	1.117	1.117	1.117	1.270	353.260 70.370	379.168 80.248	342.473 86.011	385.784 94.650	365.517 83.637	305.839 96.116	336.315 108.109
5.256.003	1.617	1.582	1.561	1.479	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.354	1.354	1.117	1.117	1.117	1.270	423.630	459.416	428.484	480.434	449.154	401.955	444.423
540.933 339.388	485	422	422	422	422	422	422	422	422	422	422	422	422	303	303	303	357	38.429 59.726	40.724 50.775	41.961 52.305	48.549 58.338	50.995 73.168	28.217 82.210	51.814 91.629
131.782 43.730													113	113	113	113	95	18.059 5.020	17.605 6.843	14.041 6.482	20.125 5.832	17.290 7.403	13.964 8.207	13.041 8.967
264.317	386	336	286	286	286	286	286	286	286	286	286	286	286	133	133	133	243	29.635	24.228	27.218	25.603	27.396	24.944	28.319
41.044 3.221																		9.308 3.630	9.348 4.004	9.869 4.208	15.285 3.439	14.713 5.060	10.706 5.911	11.509 5.836
329.354																		28.005	27.726	23.484	33.532	32.075	23.738	25.317
259.214 57.244	281	281	281	231	231	231	231	231	207	207	207	207	207	165	165	165	170	21.591 14.116	22.565 13.343	26.015 14.339	23.152 17.241	27.546 19.511	26.336 30.816	31.673 24.639
77.875 23.573																		9.000 5.088	11.500 4.819	14.400 6.100	15.650 6.600	12.834 5.778	9.290 5.957	11.235 6.622
630.711 187.492																		46.711 26.982	45.560 8.380	41.885 19.889	52.344 24.737	62.384 31.337	40.644 30.291	35.980 42.873
151.562 34.049																		16.214 5.758	15.870 7.539	15.115 5.207	21.282 5.941	19.822 6.444	15.053 5.385	15.542 6.657
531.053 30.567	650	650	650	650	400	400	400	400	400	400	400	400	400	325	325	325	325	51.026 18.377	56.314 18.242	16.024 13.473	41.438 14.377	52.339 19.766	51.746 20.044	53.784 18.785
219.410 133.855	208	208	208	208	208	208	208	208	208	208	192	192	192	109	109	109	179	25.601 18.000	26.075 18.000	26.772 18.000	24.547 18.000	23.426 18.000	20.842 17.134	25.285 22.395
981.262 31.703	625	625	625	625	625	625	625	625	625	625	625	625	625	488	488	488	625	127.362 138.097	115.950 126.394	153.648 140.747	140.876 76.005	179.491 315.542	151.753 132.000	78.822 120.909
4.158.517 884.822	2.635	2.522	2.472	2.422	2.172	2.172	2.172	2.172	2.148	2.261	2.245	2.245	2.245	1.636	1.636	1.636	1.994	420.940 294.794	413.466 258.339	410.432 280.750	462.382 230.510	520.311 502.009	417.231 337.955	382.318 349.312
5.043.339	2.635	2.522	2.472	2.422	2.172	2.172	2.172	2.172	2.148	2.261	2.245	2.245	2.245	1.636	1.636	1.636	1.994	715.734	671.805	691.182	692.892	1.022.320	755.186	731.631
46.840.039 8.182.116	23.039	21.481	20.585	19.137	18.333	18.584	18.447	18.388	18.204	19.552	19.140	19.087	18.860	16.933	16.885	16.895	17.453	3.893.221 1.407.852	4.075.478 1.410.518	4.025.154 1.566.769	3.829.594 1.537.006	4.035.890 1.843.958	3.640.552 1.803.957	3.764.404 1.947.523
55.022.155	23.039	21.481	20.585	19.137	18.333	18.584	18.447	18.388	18.204	19.552	19.140	19.087	18.860	16.933	16.885	16.895	17.453	5.301.073	5.485.995	5.591.922	5.366.600	5.879.848	5.444.509	5.711.927

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

Energiekosten										spezif. Verbrauch in [kWh/(m²*Jahr)]																		
2012 €/Jahr	2013 €/Jahr	2014 €/Jahr	2015 €/Jahr	2016 €/Jahr	2017 €/Jahr	2018 €/Jahr	2019 €/Jahr	2020 €/Jahr	2021 €/Jahr	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2005 t/a	2006 t/a
306.936	326.608	306.625	274.866	267.407	302.291	289.321	285.798	281.272	240.646	90	90	84	78	64	74	77	79	78	71	67	69	89	78	69	68	68	1.209	1.204
222.457	236.049	248.395	246.032	255.680	257.306	284.607	247.815	237.248	205.056	21	20	21	21	21	22	23	24	23	22	24	25	25	25	21	20	20	626	611
34.545	37.699	38.427	46.319	34.486	31.804	32.322	34.740	35.038	29.770	126	130	147	110	111	130	99	97	103	99	98	100	108	105	105	106	105	127	131
8.048	8.502	9.086	10.071	9.252	10.294	10.179	11.025	11.034	9.339	10	11	11	10	10	8	9	10	9	10	10	10	10	10	11	10	11	23	25
116.579	125.850	121.129	114.707	114.518	100.362	100.880	97.310	104.461	92.026	85	86	63	67	62	63	59	59	59	55	56	59	54	53	46	50	53	567	572
88.817	100.392	107.134	116.667	124.610	118.289	113.863	128.998	131.863	117.406	19	19	18	17	19	20	19	18	19	19	23	22	22	21	21	21	22	277	290
9.711	9.619	8.572	7.938	8.137	7.747	7.347	7.746	8.034	7.244	65	58	72	62	61	63	61	68	65	51	50	56	56	55	54	56	61	26	23
7.600	8.000	9.020	9.130	9.350	9.350	10.200	10.750	11.642	11.000	18	17	17	22	21	21	22	23	24	25	25	26	26	26	26	27	27	16	16
467.770	499.776	474.754	443.829	424.548	442.203	429.869	425.594	428.805	369.686	90	90	81	76	66	73	72	74	73	67	65	67	78	71	64	64	65	1.930	1.931
326.922	352.943	373.635	381.900	398.892	395.239	418.849	398.589	391.786	342.801	20	20	19	19	20	21	21	21	21	20	23	23	23	23	20	20	20	942	942
794.692	852.719	848.389	825.729	823.440	837.442	848.718	824.182	820.592	712.487	110	110	100	95	86	94	93	95	94	87	88	91	102	94	84	84	86	2.871	2.872
44.476	50.379	39.609	43.406	44.622	45.525	44.858	44.458	44.887	42.346	110	114	113	108	91	73	70	64	68	56	57	64	71	63	56	57	65	234	242
28.158	30.650	31.661	31.661	29.931	17.350	29.600	28.358	22.637	16.759	14	15	16	16	23	16	16	16	16	17	17	18	17	16	16	11	9	64	70
32.512	34.623	35.164	30.945	31.947	28.878	33.116	30.554	31.477	25.053	96	96	84	68	66	67	64	61	75	59	54	60	64	62	53	55	49	154	154
10.030	11.917	13.928	13.619	13.390	13.064	11.697	13.770	13.214	16.250	9	10	9	9	8	9	9	8	8	9	10	10	9	8	10	8	8	31	37
53.811	60.525	55.859	52.050	51.123	47.339	47.388	51.269	52.123	36.678	62	66	71	52	52	54	50	51	55	46	46	48	47	46	47	48	41	194	205
15.103	19.675	20.041	19.171	14.160	19.848	20.482	16.511	13.869	14.732	6	8	7	7	6	6	7	6	7	7	7	5	6	8	6	5	5	41	54
41.339	41.859	43.406	39.150	37.912	35.850	36.721	35.920	36.475	31.737	122	131	118	80	78	101	86	97	92	92	87	92	93	89	78	80	81	158	171
9.455	8.521	8.584	8.246	8.876	10.800	8.504	11.704	9.821	10.465	14	19	16	16	16	14	7	9	7	7	6	8	8	8	10	8	9	41	54
55.169	59.589	77.506	70.899	71.890	57.288	58.172	58.533	56.187	51.716	98	90	72	59	58	57	54	44	46	58	56	61	52	50	45	43	47	367	338
39.412	47.234	38.155	25.421	26.788	17.332	31.207	30.185	31.585	28.567	14	15	15	16	16	16	15	14	15	12	13	13	9	8	9	9	8	117	129
64.102	73.303	68.488	62.014	61.975	56.790	55.695	58.776	57.219	48.249	151	151	134	104	106	111	115	104	112	97	95	102	99	88	86	82	81	301	301
21.466	22.881	27.173	21.622	24.746	23.107	20.014	20.646	23.500	19.138	15	15	15	15	12	12	13	13	12	14	10	14	13	11	11	11	11	67	68
41.764	45.332	44.193	39.316	39.042	35.622	36.536	30.594	34.685	29.695	59	83	84	71	74	73	66	59	59	56	52	55	53	51	39	43	43	137	195
15.809	16.336	17.473	15.796	15.962	19.908	18.290	17.356	18.206	16.333	7	9	7	7	8	10	8	8	8	8	8	8	10	9	8	8	8	38	46
43.116	45.662	35.750	26.865	21.480	16.438	18.134	17.314	17.701	31.161	185	150	169	125	104	105	102	109	117	89	76	59	58	54	52	52	90	254	206
11.133	12.767	14.327	15.570	14.877	12.418	13.273	16.263	9.121	15.772	7	8	6	9	9	8	8	8	8	9	10	9	8	8	10	5	9	27	29
53.503	56.270	56.097	51.340	51.811	49.358	50.665	49.160	50.454	45.782	75	69	57	55	50	55	52	55	54	51	50	54	55	52	45	46	50	223	204
16.604	18.867	18.861	18.249	16.775	29.468	27.093	22.292	24.413	24.413	7	7	6	6	6	5	8	7	7	7	7	7	11	11	9	9	8	50	48
53.899	55.210	50.557	48.070	49.852	44.394	49.502	50.803	52.401	44.700	76	79	73	61	56	59	61	64	61	52	53	60	56	59	55	58	57	208	215
22.662	20.283	23.153	21.388	19.571	20.514	17.669	17.241	16.047	14.447	6	6	6	7	7	5	8	11	8	9	9	9	9	8	7	6	6	40	37
97.483	99.961	92.263	87.181	86.612	82.409	83.453	82.321	82.221	78.385	92	98	89	81	78	84	88	78	74	63	65	69	70	68	60	60	68	369	390
32.952	34.372	35.786	34.348	37.858	43.974	38.975	24.015	28.541	9.618	9	11	10	11	10	8	10	10	9	9	9	11	14	12	7	7	3	85	98
50.293	51.612	45.674	47.043	46.371	43.492	39.773	40.067	35.493	33.729	113	128	114	100	91	86	89	97	94	82	89	93	93	85	78	66	76	182	205

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

Energiekosten										spezif. Verbrauch in [kWh/(m**Jahr)]																		
2012 €/Jahr	2013 €/Jahr	2014 €/Jahr	2015 €/Jahr	2016 €/Jahr	2017 €/Jahr	2018 €/Jahr	2019 €/Jahr	2020 €/Jahr	2021 €/Jahr	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2005 t/a	2006 t/a
46.032	50.220	49.678	46.141	44.606	43.243	47.146	48.958	53.119	44.750	90	88	85	81	76	72	75	72	73	70	69	71	75	78	74	82	81	190	186
20.612	24.729	22.902	22.133	22.050	21.760	22.028	23.660	19.748	16.301	14	15	14	22	15	13	14	13	13	11	12	13	13	12	11	9	9	65	72
12.550	13.360	12.531	11.122	12.517	9.457	11.083	12.124	12.781	13.030	167	144	141	124	118	106	98	93	99	94	91	100	96	94	103	106	104	81	70
9.320	10.331	9.935	9.535	10.708	10.724	9.398	9.482	7.658	4.876	12	15	15	14	16	22	17	20	20	18	18	19	18	19	18	13	9	16	20
2.277	2.251	2.079	1.780	2.288	1.755	2.109	1.962	2.042	2.017	111	115	111	109	74	65	77	75	75	69	62	79	77	79	73	74	71	12	12
1.810	1.638	1.543	1.411	926	1.221	1.305	1.417	1.636	1.293	15	15	18	20	17	17	16	14	12	11	11	7	9	10	11	11	9	4	4
330.699	344.273	611.071	311.449	325.615	295.079	304.587	323.685	329.060	288.203	170	166	136	130	119	124	125	115	116	112	107	118	121	123	120	121	119	1.545	1.506
96.346	118.942	110.060	115.581	112.158	115.246	100.570	115.880	110.271	94.812	11	13	12	14	12	13	13	13	13	11	12	12	12	11	12	10	10	243	287
427.045	463.215	721.131	427.030	437.773	410.325	405.157	439.565	439.331	383.015	181	179	148	144	131	137	138	128	128	123	119	130	133	134	132	131	129	1.788	1.793
56.173	56.098	56.687	45.468	47.572	43.150	43.487	47.412	45.448	44.821	87	88	80	104	100	95	103	105	96	91	71	82	76	78	81	75	85	136	137
83.305	98.077	92.121	109.997	92.185	91.688	77.180	88.818	83.768	74.665	76	72	58	65	81	81	82	76	79	69	92	85	80	61	60	58	53	265	251
11.462	8.979	14.642	14.413	14.453	14.659	6.767	7.459	7.859	11.326	413	361	371	285	260	275	229	223	171	239	132	144	160	117	119	126	143	76	67
5.813	9.244	9.288	7.735	9.734	10.309	11.913	11.624	10.639	9.621	37	49	44	41	51	51	51	29	46	44	39	52	52	62	60	47	47	18	25
26.790	30.717	31.902	30.444	28.681	31.819	28.342	24.968	20.036	25.352	106	82	86	79	82	83	86	72	83	80	83	80	105	110	84	60	75	92	71
8.069	8.411	8.041	4.889	5.316	4.596	4.740	3.774	2.457	2.204	297	259	316	331	314	296	285	232	226	217	151	156	173	150	118	73	63	39	34
3.814	5.220	5.189	5.020	3.339	3.112	2.336	3.042	2.415	922	32	35	34	29	49	45	47	27	33	32	32	22	20	15	19	13	5	11	13
22.931	21.954	23.135	17.627	17.865	15.645	16.373	17.028	17.708	17.035	323	284	255	249	231	212	196	164	156	164	154	152	171	149	156	158	147	146	128
29.170	31.060	29.008	29.923	28.490	26.333	24.627	28.044	23.001	21.468	120	120	147	110	116	123	143	115	119	102	117	117	114	95	105	76	86	89	89
21.909	26.647	19.894	25.456	11.696	13.514	11.869	17.368	16.514	11.517	36	34	30	37	37	65	44	40	43	31	43	25	22	19	25	23	19	60	56
9.522	6.241	6.749	5.016	6.177	5.169	3.959	3.993	4.165	4.061	158	238	262	272	254	242	263	244	152	167	143	173	186	118	119	120	113	29	44
7.769	8.090	6.170	7.395	7.618	8.127	6.461	9.404	8.882	5.410	42	40	53	60	53	49	50	59	54	35	50	55	46	39	55	53	34	16	15
41.418	41.099	39.590	35.796	38.187	27.588	32.008	32.921	33.900	31.776	248	219	207	216	203	161	123	139	138	133	137	142	132	127	132	132	119	263	233
38.255	39.024	35.824	32.475	37.922	34.110	33.406	46.300	45.164	38.522	37	44	23	28	37	34	44	39	36	31	50	49	30	30	37	35	36	108	128
13.117	9.980	10.900	8.542	4.980	5.812	8.965	7.683	8.022	7.764	187	163	152	147	131	132	122	114	86	96	82	46	69	90	77	78	73	78	68
6.457	6.110	6.514	7.318	5.774	8.156	7.586	8.000	6.426	8.634	18	25	16	18	20	15	17	16	12	13	15	12	16	15	15	11	16	21	28
60.405	59.833	60.814	59.094	55.718	51.273	56.751	62.189	65.311	42.322	348	376	119	289	334	374	355	373	339	340	348	344	339	351	361	315	256	176	191
18.100	22.213	21.714	17.589	15.536	17.327	17.945	20.911	15.480	7.306	60	60	39	41	57	55	47	48	48	47	36	28	40	36	37	27	15	68	68
24.624	25.802	29.502	25.954	25.992	21.210	16.512	16.510	17.168	19.907	123	125	129	118	104	103	118	104	105	116	112	121	85	94	85	90	106	62	64
20.482	23.953	27.302	24.217	23.643	24.422	29.183	30.782	30.782	29.448	43	43	43	43	43	43	58	56	50	55	58	54	59	70	64	64	64	49	49
85.927	85.048	92.971	85.579	89.095	80.692	81.011	88.580	87.598	72.090	1.436	1.214	1.232	1.130	864	730	518	517	475	511	499	564	536	532	543	535	472	600	507
128.307	267.479	242.460	270.545	231.004	267.325	262.103	233.298	8.804	7.012	590	515	466	1.318	1.159	289	264	357	673	570	648	618	618	774	660	15	15	672	586
389.606	385.223	403.940	362.744	362.527	327.945	323.543	340.560	332.672	300.127	167	152	141	143	130	120	108	104	97	99	93	97	96	94	93	87	83	1.787	1.632
334.211	506.057	466.476	507.747	438.451	478.090	459.982	469.546	228.872	193.057	47	45	37	75	72	37	36	38	51	44	53	49	47	51	48	19	18	1.289	1.220
723.817	891.280	870.416	870.491	800.978	806.035	783.525	810.106	561.544	493.184	215	196	178	218	202	157	144	142	148	143	146	146	143	145	141	106	101	3.076	2.852
3.875.719	4.031.409	4.238.764	3.575.278	3.559.850	3.291.210	3.327.911	3.415.225	3.455.797	3.126.067	112	109	97	88	82	84	81	77	77	72	69	72	74	70	67	67	69	17.414	16.992
1.860.413	2.239.339	2.278.024	2.199.131	2.102.092	2.170.824	2.201.792	2.279.671	1.921.809	1.777.524	16	16	15	18	18	15	15	15	16	15	16	16	16	16	16	12	12	5.959	6.008
5.736.132	6.270.749	6.516.788	5.774.409	5.661.942	5.462.034	5.529.703	5.694.896	5.377.606	4.903.591	128	125	112	106	100	99	97	92	94	88	85	89	90	86	83	79	81	23.374	23.000

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

CO2-Emissionen															Einsparungen 2020-2021			
2007 t/a	2008 t/a	2009 t/a	2010 t/a	2011 t/a	2012 t/a	2013 t/a	2014 t/a	2015 t/a	2016 t/a	2017 t/a	2018 t/a	2019 t/a	2020 t/a	2021 t/a	FW- Leistung	Energie- verbrauch	Energie- kosten	CO ₂ - Reduktion
1.131	1.040	859	992	990	1.036	1.081	1.003	1.005	1.037	1.171	1.019	898	901	849	0,00%	-0,9%	14,4%	5,8%
626	623	644	666	720	750	714	677	718	733	696	657	450	379	436		-2,1%	13,6%	-15,2%
149	111	113	132	96	96	107	106	110	113	108	104	103	106	99	0,00%	0,5%	15,0%	7,1%
26	24	23	19	22	24	22	23	22	22	22	20	18	15	17		-5,5%	15,4%	-19,0%
419	447	412	415	375	380	404	382	412	435	357	342	296	328	324	0,00%	-5,8%	11,9%	1,2%
269	258	285	296	299	289	293	285	334	326	303	276	225	206	242		-4,3%	11,0%	-17,6%
29	25	24	25	23	27	27	21	22	25	22	22	21	23	23	0,00%	-7,9%	9,8%	-0,8%
15	20	19	19	21	22	23	23	22	23	22	20	17	15	17		0,0%	5,5%	-12,8%
															Vergleich der Jahre 2020 mit 2021			
1.729	1.623	1.408	1.565	1.484	1.538	1.619	1.513	1.550	1.610	1.659	1.487	1.318	1.358	1.295	0,0%	-2,1%	13,8%	4,7%
936	925	971	1.000	1.062	1.086	1.053	1.008	1.097	1.104	1.042	974	710	615	713		-2,9%	12,5%	-16,0%
2.664	2.549	2.379	2.565	2.546	2.624	2.672	2.521	2.646	2.714	2.701	2.461	2.027	1.973	2.008	0,0%	-2,3%	13,2%	-1,8%
240	228	192	155	142	133	148	125	135	150	150	131	115	120	127	-3,02%	-14,1%	5,7%	-6,6%
78	76	109	78	78	82	80	84	81	86	75	66	55	32	32		13,5%	26,0%	2,4%
134	110	106	107	98	96	125	100	96	108	102	97	82	88	73	0,00%	10,5%	20,4%	16,5%
32	32	29	34	35	30	31	34	34	36	31	27	26	18	22		-8,9%	-23,0%	-22,9%
221	161	162	170	150	156	178	153	161	167	144	141	141	148	119	25,42%	14,3%	29,6%	20,0%
47	47	45	42	52	45	51	49	45	38	42	47	30	21	25		-6,2%	-6,2%	-19,8%
153	104	101	131	107	123	123	125	125	133	119	113	98	102	98	-0,03%	-2,4%	13,0%	4,4%
47	47	45	42	21	27	22	21	18	24	23	19	21	15	18		-6,6%	-6,6%	-20,2%
270	222	218	214	194	161	176	227	233	254	194	182	164	158	164	-0,59%	-10,9%	8,0%	-3,5%
129	134	137	131	134	127	135	101	105	111	73	62	58	50	52		7,7%	9,6%	-4,1%
268	207	211	222	220	202	231	204	211	226	194	172	166	163	132	0,00%	2,1%	15,7%	18,7%
68	67	53	54	60	61	58	64	46	62	53	44	37	31	36		-1,4%	18,6%	-14,4%
196	166	172	171	148	134	143	137	136	144	123	117	89	100	93	0,00%	-0,2%	14,4%	6,4%
39	37	43	51	46	46	42	42	40	43	46	42	30	27	29		3,7%	10,3%	-8,7%
232	172	143	144	140	150	161	122	105	81	80	74	71	72	123		-71,3%	-76,0%	-71,3%
24	33	34	29	32	32	32	34	38	35	28	27	27	12	24		-81,0%	-72,9%	-104,1%
169	162	149	164	148	158	167	161	165	179	161	150	128	136	136	0,00%	-7,1%	9,3%	0,0%
39	41	40	34	53	50	49	46	46	45	70	63	42	37	40		3,3%	0,0%	-9,1%
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
198	165	153	161	160	171	171	149	161	181	149	158	146	156	144	-3,01%	1,3%	14,7%	7,9%
41	43	43	31	54	68	53	57	54	52	49	41	33	23	26		3,3%	10,0%	-9,1%
354	323	311	335	337	304	305	267	290	307	277	266	233	238	250	-7,64%	-12,7%	4,7%	-5,2%
90	98	87	68	92	98	85	82	80	94	117	94	46	41	17		63,8%	66,3%	59,1%
184	161	146	138	136	152	156	139	159	167	148	133	120	104	113	0,00%	-16,0%	5,0%	-8,3%

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

CO2-Emissionen															Einsparungen 2020-2021			
2007 t/a	2008 t/a	2009 t/a	2010 t/a	2011 t/a	2012 t/a	2013 t/a	2014 t/a	2015 t/a	2016 t/a	2017 t/a	2018 t/a	2019 t/a	2020 t/a	2021 t/a	FW- Leistung	Energie- verbrauch	Energie- kosten	CO ₂ - Reduktion
51	66	79	79	44	29	44	44	51	50	45	40	34	27	28		9,1%	13,2%	-2,6%
206	175	183	189	190	184	199	189	197	209	183	155	173	181	204	0,00%	-21,0%	1,9%	-13,0%
152	131	132	131	125	134	137	125	114	123	122	119	98	70	82		-3,0%	-2,9%	-16,2%
192	175	169	212	195	202	208	176	168	174	157	119	107	136	144	-1,79%	-12,9%	6,4%	-5,4%
38	59	68	69	86	56	54	44	47	59	56	52	42	29	31		6,6%	20,7%	-5,3%
154	140	166	156	159	158	151	144	148	127	132	128	119	116	130		-11,6%	-18,0%	-11,6%
42	47	47	45	56	37	44	42	40	37	38	36	28	23	28		-6,2%	-1,9%	-19,7%
137	128	133	126	133	137	139	125	133	122	144	108	112	112	109		3,2%	-2,1%	3,2%
63	51	57	66	61	56	77	72	62	57	62	58	49	35	36		8,5%	12,8%	-3,2%
147	156	140	124	159	167	159	171	156	145	134	127	119	124	119	-5,82%	-2,7%	11,7%	4,1%
22	24	27	31	30	32	42	37	35	35	34	31	24	18	24		-19,4%	-7,9%	-34,6%
187	169	167	172	161	170	182	164	167	166	164	146	136	142	140	0,00%	-5,5%	11,2%	1,5%
50	48	55	60	49	50	56	52	49	53	45	42	35	28	50		-61,0%	-53,5%	-81,6%
162	149	143	152	148	154	166	155	141	148	139	140	112	115	139	-1,15%	-7,8%	9,5%	-21,2%
32	35	33	36	41	34	35	37	41	36	39	40	34	24	31		-13,4%	-5,8%	-27,9%
343	257	214	209	171	177	185	186	194	215	193	180	168	175	177	-7,06%	-8,3%	7,6%	-1,1%
94	92	105	100	106	68	87	84	84	90	86	79	64	43	47		3,8%	8,5%	-8,6%
314	300	265	249	252	260	258	218	212	279	212	161	185	192	191		-6,8%	8,9%	0,3%
78	125	103	107	115	116	103	110	106	106	90	81	65	53	65		-9,9%	9,0%	-23,9%
178	169	176	221	213	193	220	231	213	223	193	189	172	173	156	-4,57%	3,2%	14,6%	9,6%
81	62	62	74	88	88	89	85	61	89	97	85	36	27	22		26,2%	12,0%	16,8%
157	145	149	158	150	149	155	136	140	144	130	127	101	102	115	-4,74%	0,2%	13,2%	-12,2%
44	49	49	44	51	51	51	52	48	47	42	42	38	27	28		8,5%	-18,0%	-3,2%
213	162	161	159	174	164	174	169	145	142	147	150	145	147	143		2,7%	-0,4%	2,7%
51	56	52	61	51	78	83	78	75	77	72	63	55	35	83		-106,8%	-149,0%	-133,2%
477	549	505	441	421	383	402	413	362	307	299	313	319	302	302		-0,1%	-0,5%	-0,1%
309	317	346	357	362	315	286	233	225	193	167	168	157	118	137		-3,3%	1,2%	-16,6%
234	192	184	183	173	183	206	174	189	191	175	97	164	166	161	-1,65%	-3,7%	12,0%	3,2%
44	46	57	49	51	46	40	44	43	45	45	42	34	24	28		-1,8%	6,7%	-14,8%
521	424	365	458	468	493	491	373	282	299	349	336	315	293	300	12,68%	-23,3%	-16,2%	-2,5%
235	231	228	238	238	230	229	216	189	190	180	169	148	103	112		3,6%	7,5%	-8,7%
176	154	146	156	131	121	131	123	134	152	129	124	118	149	145	0,00%	-4,6%	11,9%	2,3%
1	1	41	57			46	46	45	47	40	33	23	18	21		-1,9%	5,2%	-14,9%
218	192	204	210	177	186	198	193	194	202	183	177	163	175	181	0,04%	-11,1%	7,8%	-3,8%
42	43	42	49	47	42	54	52	56	62	55	52	44	36	42		-3,6%	19,9%	-16,9%
171	158	147	131	131	117	131	156	157	163	140	122	111	121	115	0,00%	-1,7%	13,3%	5,0%
66	69	70	70	72	68	71	83	57	60	86	95	85	96	107		1,1%	15,4%	-11,6%
396	200	188	170	139	141	155	192	199	206	180	181	168	191	185	-4,03%	-3,8%	10,5%	3,1%
55	49	56	51	75	58	46	57	129	134	70	67	59	47	52		0,8%	15,9%	-11,9%
258	222	223	245	219	210	266	231	233	242	234	205	194	198	181	-4,87%	1,7%	14,1%	8,2%
116	124	130	117	127	129	125	129	114	111	116	103	88	56	74		-17,8%	-11,9%	-32,8%
208	207	215	226	175	167	178	170	176	178	143	146	136	137	121	0,00%	5,1%	17,5%	11,4%
153	130	113	121	117	120	130	188	184	200	191	178	152	188	156	0,00%	11,6%	22,3%	17,5%
170	117	184	196	202	215	200	183	178	184	166	137	116	88	91		8,8%	10,3%	-2,8%

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

CO2-Emissionen															Einsparungen 2020-2021			
2007 t/a	2008 t/a	2009 t/a	2010 t/a	2011 t/a	2012 t/a	2013 t/a	2014 t/a	2015 t/a	2016 t/a	2017 t/a	2018 t/a	2019 t/a	2020 t/a	2021 t/a	FW- Leistung	Energie- verbrauch	Energie- kosten	CO ₂ - Reduktion
130	101	97	92	91	84	85	79	72	75	68	65	64	72	72	4,47%	-5,9%	12,3%	1,1%
30	27	32	33	31	29	29	30	29	30	27	28	21	16	21		-15,7%	-7,6%	-30,5%
284	264	254	244	268	267	275	217	267	263	245	246	250	251	234	-0,91%	0,0%	14,4%	6,6%
145	144	148	134	145	143	175	191	175	162	161	142	124	97	109		-0,2%	3,9%	-13,0%
308	292	292	271	259	225	230	201	237	232	210	208	203	220	175	-2,66%	14,8%	22,6%	20,4%
83	106	83	75	85	84	80	79	81	82	81	71	57	43	43		10,0%	22,5%	-1,5%
225	209	150	205	197	177	192	163	170	164	161	158	149	150	154		-2,5%	-5,8%	-2,5%
84	80	78	79	81	82	83	80	67	66	67	50	48	35	38		5,0%	18,8%	-7,1%
125	123	120	89	60	55	56	49	37	68	57	50	53	56	53		4,7%	4,2%	4,7%
187	173	189	196	200	153	173	155	147	163	133	139	141	115	119	-3,21%	-11,2%	7,1%	-3,9%
59	72	54	59	62	54	63	58	52	52	54	55	40	32	33		7,7%	21,4%	-4,1%
124	102	107	117	103	126	130	102	100	125	97	96	90	112	101	-1,06%	3,5%	16,8%	9,8%
36	36	38	30	31	32	32	40	35	35	33	29	24	19	22		-5,5%	1,8%	-19,0%
376	325	305	310	300	310	340	316	280	318	284	260	218	228	243	0,00%	-14,2%	6,0%	-6,6%
135	180	123	115	139	127	144	138	136	139	131	129	103	70	79		-0,7%	-2,0%	-13,5%
179	144	151	149	139	147	142	126	127	131	113	105	104	113	128	-26,09%	-20,9%	-2,3%	-12,9%
59	84	59	55	60	60	58	55	59	60	56	53	52	38	40		7,3%	20,7%	-4,5%
44	46	55	52	49	42	31	35	16	17	17	18	16	17	20		-18,0%	-24,1%	-18,0%
503	466	402	440	360	237	245	250	254	265	265	277	250	243	229		5,9%	2,9%	5,9%
185	158	160	173	168	158	148	152	163	132	130	128	107	88	97		2,5%	6,7%	-10,0%
443	469	442	362	275	313	344	370	322	377	356	334	331	348	330	0,00%	-1,6%	13,4%	5,1%
Vergleich der Jahre 2020 mit 2021																		
10.751	9.447	8.982	9.109	8.536	8.313	8.809	8.244	8.129	8.528	7.799	7.301	6.911	7.144	7.045	-0,4%	-4,5%	8,3%	1,4%
3.284	3.384	3.466	3.434	3.536	3.368	3.452	3.344	3.235	3.266	3.098	2.851	2.336	1.770	2.021		-1,2%	3,7%	-14,2%
14.035	12.831	12.448	12.543	12.072	11.681	12.261	11.589	11.365	11.795	10.898	10.152	9.247	8.914	9.066	-0,4%	-4,0%	6,8%	-1,7%
106	88	80	79	70	71	77	74	76	81	71	71	74	77	75	-30,03%	-4,4%	3,6%	2,5%
18	19	19	26	32	51	34	30	29	28	25	22	21	18	18		11,0%	16,0%	-0,4%
34	31	33	34	33	32	35	32	33	33	32	31	29	31	35	-85,36%	-22,1%	-23,9%	-14,0%
12	11	11	13	13	14	16	10	10	16	15	15	14	10	8		28,4%	30,4%	19,3%
150	137	146	158	148	147	162	165	160	159	138	128	124	127	121	0,00%	-1,8%	13,3%	5,0%
28	33	33	37	48	18	39	38	39	32	38	34	29	17	26		-33,1%	-29,9%	-50,1%
72	79	88	93	80	87	92	92	95	117	110	107	115	98	81	0,00%	11,7%	21,6%	17,6%
18	22	15	11	14	23	9	12	8	12	12	9	17	17	18		9,9%	13,7%	-1,6%
108	91	84	86	76	75	76	77	81	91	84	83	74	72	64	-32,89%	4,5%	66,7%	10,8%
17	17	17	26	26	27	27	18	22	21	19	16	11	10	12		-5,7%	17,1%	-19,2%
409	378	308	334	366	300	299	298	278	323	345	359	346	349	342		2,0%	0,5%	2,0%
45	45	45	44	47	42	50	43	43	44	33	32	28	24	29		-7,1%	16,0%	-20,7%
21	53	50	64	49	48	47	46	39	39	39	43	40	40	39		3,0%	1,7%	3,0%
35	29	24	25	22	18	16	21	21	24	20	13	12	8	8		14,6%	32,7%	3,7%
29	30	29	30	29	29	28	26	29	35	29	26	20	25	28	0,00%	0,4%	14,9%	-12,0%
11	12	10	8	8	8	8	8	7	7	8	6	6	3	3		16,0%	13,8%	5,2%
50	46	48	46	45	49	49	39	46	51	40	42	39	40	39	0,00%	-3,8%	12,4%	3,1%

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

CO2-Emissionen															Einsparungen 2020-2021			
2007 t/a	2008 t/a	2009 t/a	2010 t/a	2011 t/a	2012 t/a	2013 t/a	2014 t/a	2015 t/a	2016 t/a	2017 t/a	2018 t/a	2019 t/a	2020 t/a	2021 t/a	FW- Leistung	Energie- verbrauch	Energie- kosten	CO ₂ - Reduktion
178	171	160	151	152	147	159	156	163	167	155	160	151	171	158	0,06%	1,3%	15,8%	7,8%
68	104	72	60	69	64	64	54	56	61	55	48	39	28	31		3,0%	17,5%	-9,4%
69	61	58	52	48	45	48	46	44	49	47	46	50	51	51		1,9%	-1,9%	1,9%
19	19	22	30	23	28	27	25	24	25	23	22	17	11	8		34,0%	36,3%	25,5%
12	12	8	7	8	8	8	7	7	9	8	8	8	8	8		3,8%	1,2%	3,8%
5	6	5	5	5	4	4	3	3	2	2	3	2	2	2		19,3%	21,0%	9,0%
1.238	1.177	1.089	1.132	1.104	1.038	1.080	1.058	1.051	1.153	1.098	1.104	1.071	1.090	1.040	Vergleich der Jahre 2020 mit 2021			
278	318	273	285	309	298	295	262	262	272	250	222	197	150	163	-13,7%	1,2%	12,4%	4,6%
1.516	1.495	1.362	1.417	1.412	1.335	1.375	1.319	1.313	1.425	1.349	1.326	1.267	1.240	1.203	-13,7%	1,4%	12,8%	3,0%
126	163	156	148	153	160	155	149	124	143	117	119	122	116	122	-17,71%	-12,8%	1,4%	-5,4%
205	227	284	284	299	279	291	248	316	293	258	189	154	130	135		8,1%	10,9%	-3,6%
69	53	48	51	42	41	32	44	24	32	36	26	27	28	32	15,94%	-13,2%	-44,1%	-13,2%
22	21	26	26	27	15	24	23	19	26	24	27	22	15	17		0,0%	9,6%	-12,8%
74	68	71	72	71	61	74	72	79	77	89	93	70	51	60	-82,52%	-24,6%	-26,5%	-16,3%
41	43	41	39	37	30	30	28	20	20	23	20	15	10	8		13,3%	10,3%	13,3%
12	10	17	16	17	10	12	12	11	8	6	5	5	3	1		61,5%	61,8%	56,6%
115	112	104	95	88	74	70	74	69	68	77	67	70	71	66		6,8%	3,8%	6,8%
																		#DIV/0!
108	81	86	91	101	83	90	79	96	96	83	69	64	46	59	-3,10%	-12,3%	6,7%	-26,3%
50	61	61	107	77	69	75	52	71	41	33	28	30	25	23		19,5%	30,3%	9,2%
48	50	46	44	48	45	21	23	20	24	26	16	16	17	16		5,9%	2,5%	5,9%
20	23	20	19	20	23	21	14	19	20	16	13	15	13	9		35,2%	39,1%	26,9%
220	230	215	171	131	148	146	142	145	151	140	134	140	140	127		9,7%	6,3%	9,7%
68	82	108	99	132	119	109	90	142	140	80	76	79	65	74		-1,6%	14,7%	-14,6%
64	61	55	55	51	48	36	40	34	19	29	38	32	33	30		6,9%	3,2%	6,9%
18	21	22	17	20	19	14	15	16	14	17	15	13	8	14		-44,1%	-34,4%	-62,5%
60	147	170	189	148	184	177	182	197	194	170	174	177	159	120	0,00%	19,0%	35,2%	24,3%
45	47	65	62	56	58	57	54	40	31	42	36	31	19	12		44,7%	52,8%	37,7%
65	60	53	52	49	52	55	62	63	68	43	47	42	45	50	-64,32%	-17,5%	-16,0%	-9,8%
49	49	49	49	70	67	60	64	65	60	62	70	53	47	53		0,0%	4,3%	-12,8%
515	472	361	305	216	256	249	273	282	319	268	264	266	269	222	-28,08%	11,7%	17,7%	17,5%
530	1.501	1.320	329	315	427	802	664	726	692	651	773	546	11	13		-1,3%	20,4%	-14,2%
1.505	1.539	1.406	1.313	1.136	1.180	1.134	1.169	1.154	1.213	1.100	1.068	1.042	985	911	Vergleich der Jahre 2020 mit 2021			
1.019	2.041	1.972	1.007	1.033	1.087	1.466	1.237	1.426	1.324	1.190	1.231	947	337	351	-21,9%	4,1%	9,8%	7,5%
2.524	3.581	3.378	2.320	2.169	2.267	2.600	2.405	2.580	2.537	2.289	2.299	1.989	1.322	1.263	-21,9%	4,7%	12,2%	4,5%
15.223	13.787	12.886	13.119	12.259	12.069	12.643	11.983	11.884	12.505	11.656	10.959	10.341	10.578	10.292	Vergleich der Jahre 2020 mit 2021			
5.516	6.669	6.682	5.727	5.940	5.837	6.265	5.850	6.020	5.966	5.581	5.278	4.189	2.871	3.248	-3,3%	-2,8%	9,5%	2,7%
20.739	20.456	19.568	18.846	18.199	17.907	18.908	17.834	17.904	18.471	17.237	16.237	14.531	13.449	13.540	-3,3%	-2,4%	8,8%	-0,7%