

**Witterungsbereinigter Energiedatenvergleich für ausgewählte Liegenschaften des Bezirkes Charlottenburg-Wilmersdorf**

Parameter:		2010	2011	2012	2013	2014	2015	2016	2017	2018	Korrekturfaktor $k_n$ zur Gradtagsbereinigung mit Heizgradwerten (HGW) des Meteorologischen Instituts der Freien Univer												
CO <sub>2</sub> -Anteil bei Fernwärme:	0,251 kg CO <sub>2</sub> /kWh	0,252	0,252	0,252	0,252	0,252	0,252	0,252	0,252	0,272	2005	1,1131											
CO <sub>2</sub> -Anteil bei Erdgas:	0,201 kg CO <sub>2</sub> /kWh	0,201	0,201	0,201	0,201	0,201	0,201	0,201	0,201	0,201	2006	1,1337	2011	1,0588	(3600 IM)				2017	1,06	(3575) LM		
CO <sub>2</sub> -Anteil bei Strom:	0,572 kg CO <sub>2</sub> /kWh	0,572	0,572	0,572	0,572	0,572	0,572	0,572	0,572	0,539	2007	1,1640	2012	0,9867	(3600 IM)				2018	1,12	(3575) LM		
CO <sub>2</sub> -Anteil bei Heizöl:	0,303 kg CO <sub>2</sub> /kWh	0,266	0,266	0,266	0,266	0,266	0,266	0,266	0,266	0,3	2008	1,0672	2013	0,9635	(3600 IM)				2019	1,12	(3575) LM		
CO <sub>2</sub> -Anteil bei Fernwärme 1995:	0,279 kg CO <sub>2</sub> /kWh										2009	0,9972	2014	1,1469	(3575) LM								
CO <sub>2</sub> -Anteil bei Flüssiggas:	0,263 kg CO <sub>2</sub> /kWh										2010	0,8431	2015	1,06863	(3575) LM								
											1995	1,0892	2016	1,04115	(3575) LM								

Ifd. Nr.	BGF m <sup>2</sup>	CO <sub>2</sub> t/a	1995 [kWh/a]	Norm-Jahresenergieverbrauch														2005 kW	2006 kW	2007 kW	2008 kW	
				2005 kWh/a	2006 kWh/a	2007 kWh/a	2008 kWh/a	2009 kWh/a	2010 kWh/a	2011 kWh/a	2012 kWh/a	2013 kWh/a	2014 kWh/a	2015 kWh/a	2016 kWh/a	2017 kWh/a	2018 kWh/a					
<b>Dienstgebäude/ Rathäuser</b>																						
1	<b>Rathaus Charlottenburg</b>		1.127	5.635.859	4.953.974	4.934.071	4.636.764	4.262.356	3.520.519	4.067.040	4.247.688	4.352.426	4.290.492	3.903.822	3.694.133	3.813.672	4.859.825	4.381.851	1.670	1.670	1.670	1.671
	Fernwärme	54.900			626	1.141.792	1.114.921	1.141.939	1.137.566	1.175.566	1.215.582	1.254.485	1.302.756	1.246.674	1.205.952	1.332.108	1.360.000	1.372.349	1.365.567			
	<b>Rathaus Wilmersdorf</b>				2.847.384	2.917.416	2.790.334	2.585.565	2.575.472	2.368.615	2.211.375	2.184.218							1.273	1.232	994	825
	Fernwärme					914.878	892.167	989.660	939.590	919.728	941.751	919.425	830.693									
2	<b>Rathaus Schmargendorf</b>		132	660.411	521.359	537.223	610.959	454.858	462.180	539.503	411.842	401.389	425.416	411.715	405.931	414.538	449.952	447.461	218	218	268	244
	Fernwärme	4.148			30	41.769	46.400	47.138	43.325	42.458	34.903	38.142	41.701	39.024	41.704	41.526	40.300	42.500	42.000			
3	<b>Dienstgebäude Hohenzollerndamm</b>		532	2.660.233	2.325.638	2.345.747	1.718.083	1.833.397	1.687.933	1.701.978	1.608.757	1.596.937	1.603.335	1.487.267	1.514.634	1.600.237	1.481.973	1.471.476	1.010	1.010	950	920
	Fernwärme	27.217			281	505.341	528.685	490.050	470.830	519.616	540.158	520.429	502.251	511.137	507.905	619.814	604.637	597.735	574.709			
4	<b>Standesamt Charlottenburg</b>		30	147.585	108.268	95.354	119.740	102.798	100.117	103.809	100.193	111.622	106.902	83.607	82.220	91.797	92.041	93.000	52	52	52	52
	Fernwärme	1.653			17	29.190	28.503	28.001	37.000	35.000	35.000	37.000	37.000	38.000	40.000	41.000	41.500	42.500	42.500			
<b>Fläche gesamt</b>		87.918	1.821	9.104.089	10.756.623	10.829.811	9.875.879	9.238.973	8.346.220	8.780.946	8.579.854	8.646.593	6.426.146	5.886.410	5.696.919	5.505.706	6.433.840	5.946.328	4.223	4.182	3.934	3.712
<b>Wärme gesamt</b>			955	1.669.000	2.632.970	2.610.676	2.696.788	2.628.311	2.692.368	2.767.394	2.769.481	2.715.401	1.836.835	1.796.561	2.034.948	2.047.437	2.055.084	2.024.776				
<b>Strom gesamt</b>																						
<b>Energie gesamt Dienstgebäude</b>			2.775	10.773.089	13.389.593	13.440.487	12.572.667	11.867.284	11.038.588	11.548.340	11.349.335	11.361.994	8.262.981	7.682.971	7.731.867	7.553.143	8.488.924	7.971.104				

<b>Schulen</b>																						
5	<b>Bayernallee 4/5 - Heinz-Berggruen-Gymnasium</b>		477	1.060.355	958.989	992.987	982.747	935.443	787.572	634.840	611.586	557.296	588.379	485.889	495.556	552.477	620.382	562.965	250	250	250	250
	Fernwärme	8.693			58	117.533	127.829	141.669	138.314	198.308	141.448	135.328	143.014	139.900	150.140	150.140	158.867	148.128	137.862			
6	<b>Berkaerstr. 9-10 - Carl-Orff-Grundschule</b>		101	676.206	632.154	629.787	550.925	450.028	433.883	438.320	420.249	401.787	496.057	387.538	354.602	397.406	422.362	418.486	230	230	208	185
	Fernwärme	6.575			32	56.750	68.105	58.395	57.495	52.973	62.317	60.235	51.796	54.606	59.856	63.485	66.130	60.630	55.690			
7	<b>Bleibtreustr. 43 - Joan-Miro-Grundschule</b>		162	1.080.601	795.775	839.590	905.102	659.574	662.783	695.946	644.637	657.056	704.794	593.601	590.666	613.941	596.431	607.590	625	310	310	310
	Fernwärme	12.802			51	74.078	98.724	84.999	86.548	82.723	77.104	91.002	78.239	89.140	87.123	83.692	70.250	82.700	97.533			
8	<b>Knesebeckstr. 24 - Joan-Miro-Grundschule</b>		162	754.162	648.502	698.997	628.199	424.414	413.189	538.137	457.494	515.537	488.113	487.022	461.253	490.254	495.172	486.664	290	290	270	250
	Fernwärme	5.319			51	74.078	98.723	85.000	86.548	82.723	77.104	37.054	47.443	39.111	37.776	33.990	43.884	45.000	40.493			
9	<b>Blissestr. 22 - Friedrich-Ebert-Oberschule</b>		203	1.355.901	1.505.275	1.384.030	1.107.130	911.799	892.891	875.901	830.574	678.395	698.272	883.319	855.117	932.561	804.712	781.698	515	515	497	444
	Fernwärme	15.337			132	214.000	235.000	236.000	244.000	250.000	238.867	233.737	220.550	236.172	179.979	195.549	206.062	144.880	128.100			
10	<b>Brandenburgische Str. 8 - Comenius-Sonderschule und Sporthalle</b>		295	1.964.960	1.233.909	1.234.329	1.098.012	847.871	865.572	908.112	942.572	848.479	917.098	792.330	777.155	829.990	806.056	737.747	522	511	454	381
	Fernwärme	8.165			55	122.673	123.801	124.502	122.892	95.883	98.868	104.071	105.437	101.023	114.296	85.618	115.781	103.864	92.238			
11	<b>Cauerstr. 39/38 - Ludwig-Cauer-Grundschule</b>		159	1.058.573	562.885	798.347	804.348	682.012	706.383	702.679	635.241	562.020	568.716	534.073	499.054	528.239	510.503	504.475	226	211	195	195
	Fernwärme	9.572			50	69.794	84.053	71.726	68.308	78.462	92.705	79.838	79.987	73.428	75.399	74.086	79.240	91.190	86.398			
12	<b>Delbrückstr. 20A - Grunewald-Grundschule</b>		267	1.336.276	1.263.434	1.026.698	1.155.724	855.706	710.631	718.859	698.986	748.747	800.332	606.747	520.970	403.696	398.214	380.204				
	Gas	6.847			19	49.639	53.634	44.034	60.209	62.124	52.261	54.951	55.083	55.744	60.482	70.058	64.628	54.577	55.781			
13	<b>Eisenbahnstr. 48 - Otto-von-Guericke-Schule</b>		149	993.329	912.296	834.191	694.510	665.848	609.924	674.124	634.908	665.763	661.713	625.390	605.859	656.842	668.998	647.024	453	427	404	308
	Fernwärme	12.164			60	90.899	87.867	70.433	74.028	73.826	61.341	92.186	86.725	85.260	82.865	85.451	83.300	137.850	130.150			
14	<b>Emser Str. 50 - Johann-Peter-Hebel-Grundschule</b>		166	1.109.885	851.072	882.799	813.174	676.578	626.514	661.174	685.850	718.543	679.306	580.636	593.069	665.870	619.850	678.192	380	362	321	281
	Fernwärme	11.160			42	70.664	65.130	71.981	75.975	75.431	56.910	93.234	117.608	92.929	101.939	100.414	97.250	95.850	84.750			
15	<b>Friedrichhaller Str./Reichenhaller Str., Judith-Kerr-Grundschule - Alt-Schmargendorf-Grundschule - Sporthalle</b>		314	2.095.000	1.513.126	1.597.717	1.450.321	1.322.123	1.276.621	1.373.654	1.446.399	1.277.573	1.209.167	1.038.906	1.064.790	1.128.151	1.150.834	1.141.517	633	595	595	595
	Fernwärme	16.380			108	154.925	179.693	164.221	179.373	159.206	124.711	159.601	170.889	148.893	146.572	147.820	173.750	74.594	70.926			
16	<b>Goethestr. 19, Eichendorff-Grundschule</b>		179	1.190.638	745.545	838.680	752.110	660.318	599.267	563.760	581.545	640.427	618.198	541.028	584.247	613.687	614.085	572.048	363	363	330	297
	Fernwärme	6.571																				







Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

sität Berlin

Fernwärmeanschlussleistung										Energiekosten														
2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr	2012 €/Jahr	2013 €/Jahr	2014 €/Jahr	2015 €/Jahr	2016 €/Jahr	2017 €/Jahr	2018 €/Jahr	
1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.593	242.994	259.944	261.034	245.210	238.391	258.525	273.972	306.936	326.608	306.625	274.866	267.407	302.291	297.284	
										128.377	127.349	155.490	160.849	166.712	191.260	219.671	222.457	236.049	248.395	246.032	255.680	257.306	284.607	
820	820	800	800	0	0					154.312	167.241	176.061	159.926	168.509	145.359	144.634	156.631							
										103.691	102.401	140.160	130.978	133.795	151.583	163.890	140.063							
225	225	225	225	225	225	225	225	160	160	33.517	33.965	38.225	27.571	35.328	37.937	32.348	34.545	37.699	38.427	46.319	34.486	31.804	33.211	
										7.385	6.910	7.024	6.693	6.749	6.142	7.387	8.048	8.502	9.086	10.071	9.252	10.294	10.179	
530	680	610	610	610	610	610	610	610	547	130.724	140.228	129.019	107.577	114.412	106.605	107.547	116.579	125.850	121.129	114.707	114.518	100.362	103.656	
										58.117	61.472	70.472	70.573	76.571	87.487	93.104	88.817	100.392	107.134	116.667	124.610	118.289	113.863	
52	52	52	52	45	45	45	45	45	45	6.928	6.851	8.869	7.938	8.532	7.974	8.554	9.711	9.619	8.572	7.938	8.137	7.747	7.549	
										3.282	3.256	3.814	5.039	4.767	4.767	5.039	7.600	8.000	9.020	9.130	9.350	9.350	10.200	
3.297	3.447	3.357	3.357	2.550	2.550	2.550	2.550	2.485	2.345	568.475	608.230	613.207	548.222	565.172	556.399	567.055	624.401	499.776	474.754	443.829	424.548	442.203	441.700	
										300.852	301.388	376.960	374.132	388.594	441.239	489.091	466.985	352.943	373.635	381.900	398.892	395.239	418.849	
										<b>869.327</b>	<b>909.617</b>	<b>990.167</b>	<b>922.354</b>	<b>953.766</b>	<b>997.638</b>	<b>1.056.146</b>	<b>1.091.386</b>	<b>852.719</b>	<b>848.389</b>	<b>825.729</b>	<b>823.440</b>	<b>837.442</b>	<b>860.549</b>	
240	271	271	271	298	298	298	298	298	290	47.661	52.792	61.345	54.238	53.862	42.438	44.222	44.476	50.379	39.609	43.406	44.622	45.525	46.092	
										17.081	18.628	23.811	23.375	33.448	24.539	26.633	28.158	30.650	31.661	31.661	29.931	17.350	29.600	
185	185	185	185	185	185	185	185	185	201	35.597	37.891	37.007	29.654	32.355	29.937	30.904	32.512	34.623	35.164	30.945	31.947	28.878	34.028	
										8.584	10.083	9.381	8.929	8.475	10.979	11.603	10.030	11.917	13.928	13.619	13.390	13.064	11.697	
310	310	310	310	310	310	310	310	310	281	46.010	50.631	60.969	44.143	50.742	48.510	49.479	53.811	60.525	55.859	52.050	51.123	47.339	48.692	
										11.346	14.844	13.849	13.685	14.243	14.497	17.496	15.103	19.675	20.041	19.171	14.160	19.848	20.482	
186	186	250	250	230	230	205	205	205	203	34.839	38.153	34.532	28.809	34.059	37.013	35.539	41.339	41.859	43.406	39.150	37.912	35.850	37.732	
										11.346	14.843	13.849	13.685	14.242	14.497	8.166	9.455	8.521	8.584	8.246	8.876	10.800	8.504	
444	444	444	390	370	424	424	424	370	334	82.364	83.292	79.084	59.457	66.745	64.887	62.865	55.169	59.589	77.506	70.899	71.890	57.288	59.773	
										26.000	28.000	35.000	36.400	37.300	39.375	42.481	39.412	47.234	38.155	25.421	26.788	17.332	31.207	
366	366	350	350	350	350	350	350	350	336	73.412	77.257	75.778	53.747	61.291	58.924	64.140	64.102	73.303	68.488	62.014	61.975	56.790	57.228	
										20687	19304	20.995	19.977	18.260	18.344	20.896	21.466	22.881	27.173	21.622	24.746	23.107	20.014	
225	225	225	225	225	225	225	225	225	182	38.933	39.009	40.074	38.075	47.050	43.340	42.297	41.764	45.332	44.193	39.316	39.042	35.622	37.541	
										10.686	12.782	11.780	10.884	12.795	16.830	15.700	15.809	16.336	17.473	15.796	15.962	19.908	18.290	
										51.542	48.883	56.090	57.498	53.702	35.793	39.746	43.116	45.662	35.750	26.865	21.480	16.438	18.633	
										6.351	8.389	7.482	9.974	10.606	9.661	11.036	11.133	12.767	14.327	15.570	14.877	12.418	13.273	
350	360	360	360	340	340	340	340	340	328	57.132	57.583	56.037	39.516	46.549	47.158	49.237	53.503	56.270	56.097	51.340	51.811	49.358	52.060	
										13.568	13.148	11.278	11.484	11.775	10.859	14.903	16.604	18.867	18.861	18.249	16.775	29.468	27.093	
281	282	265	265	265	265	265	265	265	253	48.740	55.456	55.067	43.172	45.764	43.956	47.872	53.899	55.210	50.557	48.070	49.852	44.394	50.865	
										10.611	9.713	11.625	11.771	12.071	10.048	17.900	22.662	20.283	23.153	21.388	19.571	20.514	17.669	
595	595	595	595	595	595	574	574	574	493	85.295	94.038	101.078	83.042	91.110	89.070	98.906	97.483	99.961	92.263	87.181	86.612	82.409	85.749	
										22.902	26.587	26.129	27.955	25.320	21.932	21.810	32.952	34.372	35.786	34.348	37.858	15.983	14.800	
297	297	288	288	265	194	244	244	244	176	44.350	50.827	50.046	43.276	45.171	39.629	43.544	50.293	51.612	45.674	47.043	46.371	43.492	40.868	

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

Fernwärmeanschlussleistung										Energiekosten													
2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr	2012 €/Jahr	2013 €/Jahr	2014 €/Jahr	2015 €/Jahr	2016 €/Jahr	2017 €/Jahr	2018 €/Jahr
										11.018	11.885	15.317	19.885	24.098	25.247	14.628	9.138	16.764	17.721	20.333	19.608	18.262	17.410
359	359	359	359	359	359	359	360	359	348	61.257	64.128	61.021	47.560	55.000	51.941	57.611	64.920	65.186	64.087	59.139	58.960	54.780	54.347
										53.132	50.582	40.048	39.119	37.046	39.789	39.915	40.522	48.298	44.155	41.009	44.236	46.950	49.287
372	457	457	457	437	437	437	437	330	374	61.469	63.005	59.736	47.792	52.110	61.558	64.398	68.510	70.944	64.456	56.375	55.091	42.280	52.491
										7.533	8.013	11.021	17.357	20.349	21.397	28.684	19.506	20.584	18.144	17.542	20.646	20.574	22.778
										46.932	47.254	34.433	47.387	48.132	38.033	37.123	44.978	43.246	41.121	36.527	32.325	26.193	31.082
										12.357	16.261	12.185	13.187	13.889	14.513	18.689	12.611	16.964	17.121	15.980	13.502	16.440	15.742
										36.201	41.263	36.792	48.064	44.345	33.234	39.548	40.817	41.310	38.155	34.299	32.234	29.383	27.903
										20.961	19.249	19.395	15.407	17.528	21.583	22.308	17.074	30.482	30.428	25.691	22.104	23.738	26.482
215	215	215	215	215	215	195	195	195	180	34.979	35.358	41.707	40.277	41.829	39.315	46.430	52.288	51.561	54.970	44.809	40.329	39.055	39.682
										8.922	15.623	6.477	6.907	7.779	9.821	10.575	10.728	18.060	14.856	13.850	13.068	14.466	13.471
352	352	332	332	332	332	332	332	332	324	57.603	57.601	57.221	46.119	50.978	48.126	50.356	55.658	60.025	56.505	51.518	48.976	49.728	51.097
										12.968	12.871	14.446	13.464	15.909	19.305	16.557	16.581	21.223	21.226	19.318	19.731	19.150	18.240
295	295	280	285	280	280	280	280	280	262	51.544	53.123	49.031	40.145	43.917	42.352	45.751	50.039	54.252	52.400	43.943	43.369	42.683	47.376
										9.344	9.370	9.610	10.192	9.990	11.926	13.895	11.662	11.722	15.223	16.711	13.300	16.906	18.066
360	360	330	330	330	365	365	365	365	328	67.091	82.586	86.018	63.473	62.565	56.813	53.241	58.095	61.576	65.299	60.542	62.019	59.038	59.230
										25.312	29.691	27.273	25.852	30.212	32.070	35.353	22.770	35.453	33.847	33.183	32.711	36.125	34.191
415	415	388	388	388	388	388	388	388	402	70.278	75.037	85.553	72.685	74.715	70.091	77.495	85.046	86.923	78.349	68.779	79.334	65.591	68.719
										21.977	20.730	24.012	38.226	31.098	34.915	39.400	39.553	35.983	61.254	49.357	35.713	33.311	36.440
284	284	437	437	437	437	437	437	437	402	41.401	41.920	51.924	45.759	53.073	58.064	67.886	66.916	75.475	79.873	68.003	66.753	61.758	64.365
										21.448	20.234	23.460	17.427	18.075	23.813	29.453	19.538	33.970	34.805	36.860	33.090	39.394	39.925
280	280	260	260	260	260	260	260	260	244	49.526	50.493	47.009	38.853	44.749	43.128	45.522	48.299	50.772	46.260	43.159	41.994	39.958	43.259
										11.934	13.680	12.761	15.724	14.106	14.255	16.967	20.829	19.396	20.997	19.122	17.567	17.754	18.012
										44.213	49.486	48.908	48.825	46.396	38.012	46.879	45.340	47.953	45.899	35.678	35.893	28.492	36.062
										13.398	18.404	43.694	16.238	15.556	20.110	14.386	27.211	32.487	36.628	19.187	28.682	28.359	30.485
										107.827	122.628	113.589	161.127	143.030	115.567	113.286	112.004	118.176	123.505	90.437	79.490	58.726	76.979
										68.887	70.807	81.836	83.127	91.278	106.995	114.300	94.103	82.384	116.386	80.215	69.086	61.723	69.625
315	315	300	300	310	290	290	290	290	272	66.790	71.387	64.001	49.322	53.925	49.399	52.068	58.016	65.014	57.693	55.003	52.611	50.516	37.691
										11.588	10.557	13.258	13.559	16.585	15.694	17.232	15.398	17.660	17.958	18.428	18.186	20.085	19.789
					1.247	1.247	1.090	1.090	397	100.618	110.894	123.399	129.265	145.614	182.766	173.484	154.328	127.482	130.262	130.365	125.340	116.705	100.420
										49.151	51.592	62.453	61.983	62.494	71.369	75.211	71.170	79.519	73.618	67.496	64.946	71.148	69.912
200	200	200	200	200	200	200	200	200	198	69.516	50.926	47.570	38.398	41.683	40.713	38.744	39.042	42.628	41.332	39.545	41.384	37.653	39.991
										352	368	335	321	11.852	18.187	15.718	18.413	19.696	18.573	17.871	17.597	18.970	14.245
325	325	300	300	300	300	300	300	300	307	68.345	63.635	63.226	49.725	58.692	55.525	52.999	59.016	63.538	63.033	56.781	55.754	53.031	57.397
										10.564	12.996	12.213	12.187	12.214	15.637	15.715	14.122	20.510	21.070	22.380	23.312	23.308	22.412
275	279	279	279	299	279	279	279	279	243	39.879	43.570	50.366	44.626	47.304	39.681	44.752	43.466	48.065	55.976	50.553	49.374	45.671	42.050
										13.000	14.300	17.700	18.500	19.000	21.202	22.874	21.222	24.734	29.159	13.688	14.424	20.667	35.414
430	400	330	330	330	330	330	330	330	312	78.872	87.734	76.438	53.826	56.675	48.079	45.975	48.998	53.613	64.167	59.444	57.963	53.784	58.811
										16.187	16.374	17.560	14.666	18.054	18.663	26.524	20.054	19.166	22.018	26.763	29.906	17.879	29.978
415	415	416	416							62.965	65.302	55.338	43.206	47.849	43.229	49.529	54.352						
										17.054	16.632	16.794	17.605	22.085	24.047	24.118	25.003						
519	519	519	519	519	519	519	519	519	410	68.127	71.462	77.553	61.620	69.187	68.096	69.762	71.653	87.619	80.323	72.836	71.338	71.211	68.265
										33.928	27.006	31.775	34.785	36.928	35.803	40.589	40.618	45.345	45.154	43.191	41.412	43.325	42.590
310	310	310	300	290	290	290	290	290	249	50.833	48.322	55.497	52.327	62.047	51.031	53.149	56.465	58.158	56.890	52.495	50.311	44.081	47.877
249	249	262	262	262	262	262	262	262	256	37.716	38.858	45.017	35.905	36.318	35.156	38.846	41.425	45.072	60.573	53.440	54.254	53.441	55.751

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

Fernwärmeanschlussleistung										Energiekosten													
2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr	2012 €/Jahr	2013 €/Jahr	2014 €/Jahr	2015 €/Jahr	2016 €/Jahr	2017 €/Jahr	2018 €/Jahr
										42.970	35.460	43.984	31.093	48.686	58.176	61.286	64.372	68.083	62.233	61.919	60.448	62.396	56.986
215	215	190	190	180	180	180	180	180	166	31.481	36.048	37.715	28.908	31.128	27.538	30.332	29.824	30.424	30.014	25.413	25.049	24.102	24.503
										6.389	7.452	8.822	7.724	9.119	10.455	10.445	9.832	10.899	12.133	11.428	11.054	11.454	12.237
469	469	469	469	469	479	469	469	469	437	70.745	73.366	80.777	67.641	74.388	66.666	79.145	83.822	88.624	75.364	78.670	73.856	71.936	79.667
										30.382	31.117	39.273	39.357	41.192	40.989	46.256	44.494	61.067	66.235	61.772	58.057	60.488	58.482
447	447	425	425	425	425	425	460	460	414	72.688	78.461	84.754	72.598	82.801	71.615	75.791	72.451	75.309	69.660	70.639	67.324	64.258	69.907
										24.098	23.293	25.267	33.647	25.505	24.265	29.161	28.617	30.430	30.248	31.792	30.437	31.963	31.772
										66.138	61.098	49.978	65.911	45.782	48.117	52.660	48.631	52.492	44.822	42.268	41.538	31.389	37.680
										35.201	28.742	25.111	24.431	24.053	25.624	27.723	28.007	31.555	32.159	20.405	24.107	26.423	22.554
										30.259	30.223	30.824	39.370	36.403	22.277	18.121	18.174	18.622	17.272	9.636	17.522	11.495	13.198
321	321	321	321	315	315	315	315	315	297	69.713	73.709	56.698	53.521	55.694	52.780	60.113	51.585	57.745	54.345	47.183	48.259	43.164	48.353
										18.472	18.593	19.889	23.176	18.251	19.865	19.759	19.131	24.990	23.005	13.901	20.562	21.209	21.597
210	210	200	200	165	165	165	165	165	156	33.489	36.947	35.497	26.922	33.385	32.984	33.178	40.931	41.557	35.076	32.453	34.962	29.836	31.213
										8.135	10.898	10.309	10.150	10.848	9.699	10.540	10.752	12.077	16.046	14.082	13.038	13.884	12.688
460	460	440	440	425	425	443	443	443	422	80.351	89.651	63.932	79.208	85.846	80.218	85.423	94.316	104.038	98.036	80.664	84.455	79.391	82.096
										34.275	35.138	39.990	53.686	37.118	36.949	46.903	42.671	53.947	51.700	52.621	51.628	49.092	57.355
410	410	390	390	364	364	364	364	364	278	69.184	58.238	59.867	43.174	49.091	44.624	47.167	51.490	50.338	48.347	43.680	42.701	39.874	39.574
										19.272	17.813	18.429	26.492	18.764	18.153	21.646	20.606	22.706	21.007	23.392	22.330	22.185	23.587
										14.298	15.070	11.657	17.364	19.070	14.191	14.903	11.680	8.887	13.860	4.142	4.522	3.561	4.514
										105.472	121.212	113.328	144.866	153.862	102.570	102.242	85.050	67.977	68.252	62.568	66.949	51.840	67.263
										33.210	37.524	50.126	42.704	47.402	52.200	53.585	48.845	51.740	53.603	59.325	45.169	48.612	53.261
762	762	826	826	826	826	826	896	896	788	104.147	111.351	126.959	115.943	125.263	109.825	121.349	127.101	138.891	151.364	124.935	131.929	128.573	135.641
12.328	12.429	12.362	12.303	12.150	13.385	12.989	12.938	12.776	11.142	2.704.858	2.841.855	2.835.102	2.593.132	2.753.399	2.520.743	2.644.479	2.711.837	2.827.819	2.772.108	2.484.200	2.468.798	2.246.559	2.363.713
										845.527	872.944	963.208	968.692	1.003.513	1.080.230	1.164.901	1.102.934	1.261.397	1.327.853	1.193.903	1.152.591	1.156.034	1.207.641
										<b>3.550.385</b>	<b>3.714.799</b>	<b>3.798.310</b>	<b>3.561.824</b>	<b>3.756.912</b>	<b>3.600.973</b>	<b>3.809.380</b>	<b>3.814.771</b>	<b>4.089.216</b>	<b>4.099.961</b>	<b>3.678.104</b>	<b>3.621.389</b>	<b>3.402.594</b>	<b>3.571.355</b>
88	88	88	88	88	88	88	88			19.518	20.597	22.329	16.885	12.857	12.638	13.369	13.920	14.443	15.261	14.385	14.317		
										7.193	8.674	7.228	6.314	7.066	6.900	6.507	8.043	7.661	8.137	9.987	7.519		
208	208	208	208	208	208	208	208	208	151	28.756	31.134	31.705	29.678	27.326	24.618	25.940	27.172	29.338	297.454	27.455	27.266	25.685	24.968
										7.520	7.269	6.000	5.577	5.768	8.835	11.399	11.916	13.519	12.864	13.153	11.976	11.852	11.140
146	146	146	146	146	146	146	146	146	69	16.371	14.857	15.381	13.885	14.551	13.294	15.135	15.326	16.300	16.784	15.482	14.869	15.033	1.062
										6.291	2.372	4.207	3.776	3.807	5.013	5.192	5.423	6.732	4.637	4.395	6.690	7.366	4.972
277	277	277	277	277	277	277	277	277	269	41.046	42.104	44.220	38.776	44.139	43.059	45.778	48.262	53.318	54.871	48.056	45.697	42.277	44.915
										10.742	9.426	9.800	10.900	9.900	12.983	17.043	7.003	15.624	15.656	17.298	13.889	18.055	17.923
196	196	196	196	196	196	196	196	196	169	29.696	34.336	20.072	23.458	25.085	26.822	26.980	30.161	32.053	33.073	30.420	33.542	32.936	34.480
										4.695	6.642	5.391	6.284	5.490	4.097	5.468	7.762	3.985	3.164	3.674	4.937	5.458	4.691
214	214	214	214	214	214	214	214	214	149	29.247	31.901	32.441	29.305	28.529	26.305	27.533	28.494	29.404	30.954	28.792	29.596	28.839	27.627
										4.309	4.660	5.017	5.100	5.100	8.906	9.038	9.053	10.391	7.145	10.040	9.115	9.309	6.838
										107.701	124.760	103.371	139.970	115.761	76.455	94.507	79.089	78.609	76.817	67.549	79.991	65.756	85.362
										3.780	13.015	13.000	13.000	13.000	14.386	16.142	14.235	21.337	19.392	19.182	18.639	15.997	13.827
										12.166	9.823	5.989	21.022	17.595	17.617	14.863	13.077	12.915	12.705	9.656	9.891	7.830	10.436
										6.980	7.377	10.227	8.204	6.824	8.093	7.313	6.045	6.990	9.226	11.761	10.293	9.490	4.890
48	48	48	48	48	48	48	46	46	48	10.446	10.889	8.229	8.568	9.252	8.714	9.619	10.210	10.119	9.872	10.557	10.466	9.345	8.648

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

Fernwärmeanschlussleistung										Energiekosten													
2009 kW	2010 kW	2011 kW	2012 kW	2013 kW	2014 kW	2015 kW	2016 kW	2017 kW	2018 kW	2005 €/Jahr	2006 €/Jahr	2007 €/Jahr	2008 €/Jahr	2009 €/Jahr	2010 €/Jahr	2011 €/Jahr	2012 €/Jahr	2013 €/Jahr	2014 €/Jahr	2015 €/Jahr	2016 €/Jahr	2017 €/Jahr	2018 €/Jahr
										3.048	3.737	3.800	4.060	3.574	2.948	3.148	3.167	3.666	3.596	2.999	2.935	4.015	3.558
65	65	65	65	65	65	65	65	65	64	17.737	16.273	14.103	12.931	14.661	13.052	14.287	18.049	16.388	14.254	14.437	14.888	12.922	13.443
202	202	202	202	202	202	202	202	202	198	39.233	41.404	45.820	42.335	45.354	39.381	43.929	46.032	50.220	49.678	46.141	44.606	43.243	48.443
										17.008	18.848	21.109	30.372	22.212	19.566	23.680	20.612	24.729	22.902	22.133	22.050	21.760	22.028
										17.842	18.284	17.942	22.658	19.910	14.259	14.824	12.550	13.360	12.531	11.122	12.517	9.457	11.388
										4.517	5.436	5.618	5.391	6.265	9.464	7.848	9.320	10.331	9.935	9.535	10.708	10.724	9.398
										3.018	3.401	3.200	3.200	3.352	2.260	2.921	2.277	2.251	2.079	1.780	2.288	1.755	2.167
										1.480	1.466	1.842	1.986	1.697	1.825	1.838	1.810	1.638	1.543	1.411	926	1.221	1.305
1.444	1.444	1.444	1.444	1.444	1.444	1.444	1.442	1.354	1.117	372.778	399.765	364.802	402.669	378.373	318.477	349.684	344.620	358.716	626.332	325.834	339.932	295.079	312.941
										77.563	88.922	93.239	100.964	90.703	103.016	114.616	113.442	136.994	125.342	135.608	128.792	124.555	107.408
<b>1.444</b>	<b>1.444</b>	<b>1.444</b>	<b>1.444</b>	<b>1.444</b>	<b>1.444</b>	<b>1.444</b>	<b>1.442</b>	<b>1.354</b>	<b>1.117</b>	<b>450.341</b>	<b>488.687</b>	<b>458.041</b>	<b>503.633</b>	<b>469.076</b>	<b>421.493</b>	<b>464.299</b>	<b>458.061</b>	<b>495.710</b>	<b>751.674</b>	<b>461.442</b>	<b>468.724</b>	<b>419.634</b>	<b>420.349</b>
422	422	422	422	422	422	422	422	422	303	38.429	40.724	41.961	48.549	50.995	28.217	51.814	56.173	56.098	56.687	45.468	47.572	43.150	44.684
										59.726	50.775	52.305	58.338	73.168	82.210	91.629	83.305	98.077	92.121	109.997	92.185	91.688	77.180
										113	113	113	113	113	113	113	113	113	113	113	113	113	113
										18.059	17.605	14.041	20.125	17.290	13.964	13.041	11.462	8.979	14.642	14.413	14.453	14.659	6.953
										5.020	6.843	6.482	5.832	7.403	8.207	8.967	5.813	9.244	9.288	7.735	9.734	10.309	11.913
286	286	286	286	286	286	286	286	286	133	29.635	24.228	27.218	25.603	27.396	24.944	28.319	26.790	30.717	31.902	30.444	28.681	31.819	29.122
										9.308	9.348	9.869	15.285	14.713	10.706	11.509	8.069	8.411	8.041	4.889	5.316	4.596	4.871
										3.630	4.004	4.208	3.439	5.060	5.911	5.836	3.814	5.220	5.189	5.020	3.339	3.112	2.336
										28.005	27.726	23.484	33.532	32.075	23.738	25.317	22.931	21.954	23.135	17.627	17.865	15.645	16.824
231	231	231	231	207	207	207	207	207	165	21.591	22.565	26.015	23.152	27.546	26.336	31.673	29.170	31.060	29.008	29.923	28.490	26.333	25.305
										14.116	13.343	14.339	17.241	19.511	30.816	24.639	21.909	26.647	19.894	25.456	11.696	25.101	9.315
										9.000	11.500	14.400	15.650	12.834	9.290	11.235	9.522	6.241	6.749	5.016	6.177	5.169	4.068
										5.088	4.819	6.100	6.600	5.778	5.957	6.622	7.769	8.090	6.170	7.395	7.618	8.127	6.461
										46.711	45.560	41.885	52.344	62.384	40.644	35.980	41.418	41.099	39.590	35.796	38.187	27.588	32.889
										26.982	8.380	19.889	24.737	31.337	30.291	42.873	38.255	39.024	35.824	32.475	37.922	34.110	33.406
										16.214	15.870	15.115	21.282	19.822	15.053	15.542	13.117	9.980	10.900	8.542	4.980	5.812	9.212
										5.758	7.539	5.207	5.941	6.444	5.385	6.657	6.457	6.110	6.514	7.318	5.774	8.156	7.586
400	400	400	400	400	400	400	400	400	325	51.026	56.314	16.024	41.438	52.339	51.746	53.784	60.405	59.833	60.814	59.094	55.718	51.273	58.313
										18.377	18.242	13.473	14.377	19.766	20.044	18.785	18.100	22.213	21.714	17.589	15.536	17.327	17.945
208	208	208	208	208	208	192	192	192	109	25.601	26.075	26.772	24.547	23.426	20.842	25.285	24.624	25.802	29.502	25.954	25.992	21.210	16.967
										18.000	18.000	18.000	18.000	18.000	17.134	22.395	20.482	23.953	27.302	24.217	23.643	24.422	29.183
625	625	625	625	625	625	625	625	625	488	127.362	115.950	153.648	140.876	179.491	151.753	78.822	85.927	85.048	92.971	85.579	89.095	80.692	83.241
										138.097	126.394	140.747	76.005	315.542	132.000	120.909	128.307	267.479	242.460	270.545	231.004	267.325	262.103
939	939	2.172	2.525	2.463	2.546	2.530	2.245	2.245	1.636	420.940	413.466	410.432	462.382	520.311	417.231	382.318	389.606	385.223	403.940	362.744	362.527	327.945	332.447
										294.794	258.339	280.750	230.510	502.009	337.955	349.312	334.211	506.057	466.476	507.747	438.451	489.677	457.428
<b>939</b>	<b>939</b>	<b>2.172</b>	<b>2.525</b>	<b>2.463</b>	<b>2.546</b>	<b>2.530</b>	<b>2.245</b>	<b>2.245</b>	<b>1.636</b>	<b>715.734</b>	<b>671.805</b>	<b>691.182</b>	<b>692.892</b>	<b>1.022.320</b>	<b>755.186</b>	<b>731.631</b>	<b>723.817</b>	<b>891.280</b>	<b>870.416</b>	<b>870.491</b>	<b>800.978</b>	<b>817.622</b>	<b>789.875</b>
18.008	18.259	19.335	19.629	18.607	19.925	19.513	19.175	18.860	16.240	2.005	2.006	2.007	2.008	2.009	2.010	2.011	2.012	2.013	2.014	2.015	2.016	2.017	2.018
										4.067.052	4.263.316	4.223.544	4.006.405	4.217.255	3.812.850	3.943.536	4.070.464	4.071.533	4.277.134	3.616.607	3.595.805	3.311.787	3.450.801
										1.518.736	1.521.593	1.714.157	1.674.298	1.984.819	1.962.440	2.117.920	2.017.572	2.257.391	2.293.306	2.219.158	2.118.726	2.165.505	2.191.327
<b>18.008</b>	<b>18.259</b>	<b>19.335</b>	<b>19.629</b>	<b>18.607</b>	<b>19.925</b>	<b>19.513</b>	<b>19.175</b>	<b>18.860</b>	<b>16.240</b>	<b>5.585.788</b>	<b>5.784.909</b>	<b>5.937.700</b>	<b>5.680.703</b>	<b>6.202.074</b>	<b>5.775.290</b>	<b>6.061.456</b>	<b>6.088.036</b>	<b>6.328.925</b>	<b>6.570.440</b>	<b>5.835.766</b>	<b>5.714.531</b>	<b>5.477.292</b>	<b>5.642.128</b>



Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

spezif. Verbrauch in [kWh/(m²*Jahr)]														CO2-Emissionen										Einsparungen 2017-2018							
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	FW-Leistung	Energieverbrauch	Energiekosten	CO2-Reduktion
t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a				
90	90	84	78	64	74	77	79	78	71	67	69	89	80	1.248	1.243	1.168	1.074	887	1.025	1.070	1.097	1.081	984	931	961	1.225	1.192	4,6%	9,8%	1,7%	2,7%
21	20	21	21	21	22	23	24	23	22	24	25	25	25	653	638	653	651	672	695	718	745	713	690	762	778	785	736		0,5%	-10,6%	6,2%
52	53	51	47	47	43	40	40							718	735	703	652	649	597	557	550	0									
17	16	18	17	17	17	17	15							523	510	566	537	526	539	526	475	0									
126	130	147	110	111	130	99	97	103	99	98	100	108	108	131	135	154	115	116	136	104	101	107	104	102	104	113	122	0,0%	0,6%	-4,4%	-7,3%
10	11	11	10	10	8	9	10	9	10	10	10	10	10	24	27	27	25	24	20	22	24	22	24	24	23	24	23		1,2%	1,1%	6,9%
85	86	63	67	62	63	59	59	59	55	56	59	54	54	586	591	433	462	425	429	405	402	404	375	382	403	373	400	10,3%	0,7%	-3,3%	-7,2%
19	19	18	17	19	20	19	18	19	19	23	22	22	21	289	302	280	269	297	309	298	287	292	291	355	346	342	310		3,9%	3,7%	9,4%
65	58	72	62	61	63	61	68	65	51	50	56	56	56	27	24	30	26	25	26	25	28	27	21	21	23	23	25	0,5%	-1,0%	2,6%	-9,1%
18	17	17	22	21	21	22	23	24	25	25	26	26	26	17	16	16	21	20	20	21	22	23	23	24	24	24	23		0,0%	-9,1%	5,8%
<b>122</b>	<b>123</b>	<b>112</b>	<b>105</b>	<b>95</b>	<b>100</b>	<b>98</b>	<b>98</b>	<b>73</b>	<b>67</b>	<b>65</b>	<b>63</b>	<b>73</b>	<b>68</b>	<b>2.711</b>	<b>2.729</b>	<b>2.489</b>	<b>2.328</b>	<b>2.103</b>	<b>2.213</b>	<b>2.162</b>	<b>2.179</b>	<b>1.619</b>	<b>1.483</b>	<b>1.436</b>	<b>1.492</b>	<b>1.735</b>	<b>1.739</b>	<b>Vergleich der Jahre 2017 mit 2018</b>			
30	30	31	30	31	31	32	31	21	20	23	23	23	23	1.506	1.493	1.543	1.503	1.540	1.583	1.584	1.553	1.051	1.028	1.164	1.171	1.176	1.091	5,6%	7,6%	0,1%	-0,3%
<b>152</b>	<b>153</b>	<b>143</b>	<b>135</b>	<b>126</b>	<b>131</b>	<b>129</b>	<b>129</b>	<b>94</b>	<b>87</b>	<b>88</b>	<b>86</b>	<b>97</b>	<b>91</b>	<b>4.217</b>	<b>4.222</b>	<b>4.031</b>	<b>3.832</b>	<b>3.643</b>	<b>3.796</b>	<b>3.746</b>	<b>3.732</b>	<b>2.670</b>	<b>2.511</b>	<b>2.600</b>	<b>2.663</b>	<b>2.910</b>	<b>2.830</b>	<b>5,6%</b>	<b>6,1%</b>	<b>-2,8%</b>	<b>2,7%</b>
110	114	113	108	91	73	70	64	68	56	57	64	71	65	242	250	248	236	198	160	154	140	148	122	125	139	156	153	2,7%	9,3%	-1,2%	2,1%
14	15	16	16	23	16	16	16	16	17	17	18	17	16	67	73	81	79	113	81	77	82	80	86	86	91	85	74		6,9%	-70,6%	12,3%
96	96	84	68	66	67	64	61	75	59	54	60	64	64	159	159	139	113	109	110	106	101	125	98	89	100	106	114	-8,4%	0,9%	-17,8%	-6,9%
9	10	9	9	8	9	9	8	8	9	10	10	9	8	32	39	33	33	30	36	34	30	31	34	36	38	35	30		8,1%	10,5%	13,4%
62	66	71	52	52	54	50	51	55	46	46	48	47	47	201	212	228	166	167	175	162	166	178	150	149	155	150	165	9,3%	-1,9%	-2,9%	-10,0%
6	8	7	7	6	6	7	6	7	7	7	5	6	8	42	56	49	50	47	44	52	45	51	50	48	40	47	53		-17,9%	-3,2%	-11,1%
122	131	118	80	78	101	86	97	92	92	87	92	93	91	163	176	158	107	104	136	115	130	123	123	116	124	125	132	1,1%	1,7%	-5,2%	-6,1%
14	19	16	16	16	14	7	9	7	7	6	8	8	8	42	56	49	50	47	44	21	27	22	22	19	25	26	22		10,0%	21,3%	15,2%
98	90	72	59	58	57	54	44	46	58	56	61	52	51	379	349	279	230	225	221	209	171	176	223	215	235	203	213	9,8%	2,9%	-4,3%	-4,8%
14	15	15	16	16	16	15	14	15	12	13	13	9	8	122	134	135	140	143	137	134	126	135	103	112	118	83	69		11,6%	-80,1%	16,7%
151	151	134	104	106	111	115	104	112	97	95	102	99	90	311	311	277	214	218	229	238	214	231	200	196	209	203	201	4,1%	8,5%	-0,8%	1,2%
15	15	15	15	12	12	13	13	12	14	10	14	13	11	70	71	71	70	55	57	60	60	58	65	49	66	59	50		11,2%	13,4%	16,3%
59	83	84	71	74	73	66	59	59	56	52	55	53	53	142	201	203	172	178	177	160	142	143	135	126	133	129	137	19,1%	1,2%	-5,4%	-6,7%
7	9	7	7	8	10	8	8	8	8	8	8	10	9	40	48	41	39	45	53	46	46	42	43	42	45	52	47		5,3%	8,1%	10,7%
185	150	169	125	104	105	102	109	117	89	76	59	58	56	318	259	291	216	179	181	140	189	202	153	105	81	80	76		4,5%	-13,4%	4,5%
7	8	6	9	9	8	8	8	8	9	10	9	8	8	28	31	25	34	36	30	31	32	32	35	40	37	31	30		-2,2%	-6,9%	3,7%
75	69	57	55	50	55	52	55	54	51	50	54	55	53	230	210	175	168	154	170	160	168	167	158	153	166	169	176	3,5%	3,3%	-5,5%	-4,4%
7	7	6	6	6	5	8	7	7	7	7	7	11	11	52	50	40	42	42	35	53	50	49	47	49	48	79	70		5,6%	8,1%	11,0%
76	79	73	61	56	59	61	64	61	52	53	60	56	61	0	0	0	0	0	0												
6	6	6	7	7	5	8	11	8	9	9	9	9	8	487	505	465	387	358	378	173	181	171	146	149	168	156	184	4,5%	-9,4%	-14,6%	-18,1%
														40	37	41	43	43	33	53	67	53	58	57	56	55	46		11,6%	13,9%	16,7%
92	98	89	81	78	84	88	78	74	63	65	69	70	70	381	403	365	333	322	346	364	322	305	262	268	284	290	310	14,1%	0,8%	-4,1%	-7,1%
9	11	10	11	10	8	10	10	9	9	9	11	5	4	89	103	94	103	91	71	91	98	85	84	85	99	43	38		4,9%	7,4%	10,4%
113	128	114	100	91	86	89	97	94	82	89	93	93	87	188	211	190	166	151	142	147	161	156	136	147	155	155	156	27,8%	6,8%	6,0%	-0,5%

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

spezif. Verbrauch in [kWh/(m²*Jahr)]														CO2-Emissionen										Einsparungen 2017-2018								
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	FW-Leistung	Energieverbrauch	Energiekosten	CO2-Reduktion	
13	13	14	18	22	22	12	8	12	12	14	14	13	13	48	49	53	69	83	82	43	29	44	44	54	53	51	45		5,7%	4,7%	11,1%	
77	75	63	53	56	58	61	58	59	55	54	57	57	50	261	254	212	181	189	195	205	195	199	186	182	194	192	181	3,1%	12,5%	0,8%	5,5%	
34	32	21	18	18	18	16	17	18	17	16	17	18	18	261	245	158	137	138	137	124	133	137	128	121	130	138	133		-2,6%	-5,0%	3,3%	
83	78	66	60	58	73	70	71	69	57	52	54	55	51	248	233	198	180	174	219	211	214	208	172	155	161	165	164	-13,4%	7,7%	-24,2%	0,4%	
5	5	6	9	10	10	13	8	8	7	7	9	9	9	37	36	40	62	71	72	85	56	53	45	50	63	63	59		0,4%	-10,7%	6,1%	
124	112	81	74	87	82	84	83	80	76	78	67	70	69	296	266	194	175	208	195	159	198	190	181	148	127	132	132		0,2%	-18,7%	0,2%	
9	11	8	9	9	9	10	7	8	8	8	7	8	8	47	62	44	49	50	47	55	37	44	43	42	40	43	40		1,8%	4,2%	7,4%	
114	124	99	92	95	90	95	98	100	89	95	87	103	79	199	216	172	161	166	158	133	172	174	156	133	122	144	111		23,0%	5,0%	23,0%	
19	19	17	13	15	17	15	14	19	19	17	15	18	17	75	74	66	53	59	69	61	56	77	74	66	60	70	65		1,1%	-11,6%	6,8%	
85	87	91	96	86	76	102	105	95	100	86	80	84	82	144	146	152	161	145	129	172	177	159	168	144	134	141	149	7,6%	2,1%	-1,6%	-5,6%	
9	16	6	7	7	8	8	8	11	10	10	10	10	10	34	61	23	26	28	32	30	32	42	37	37	37	38	35		4,4%	6,9%	9,9%	
87	79	66	60	59	61	60	62	63	55	53	53	59	54	254	229	193	175	173	178	175	180	182	161	155	154	172	170	2,5%	8,0%	-2,8%	0,8%	
8	8	8	8	9	10	7	7	8	8	8	8	8	8	50	50	52	50	58	63	49	49	56	53	52	56	51	47		2,2%	4,8%	7,8%	
94	89	71	65	63	67	68	69	70	64	55	58	62	65	222	210	168	154	148	157	160	163	166	152	130	137	146	164	6,3%	-4,2%	-11,0%	-12,5%	
7	7	6	7	7	7	8	6	7	7	8	7	8	9	35	35	33	37	35	38	40	34	35	38	44	38	44	45		-8,8%	-6,9%	-2,5%	
145	158	122	91	76	74	63	64	64	62	62	68	69	67	424	461	355	265	221	216	185	188	185	182	180	199	202	210	10,1%	3,7%	-0,3%	-4,0%	
15	18	15	15	17	16	16	10	13	13	13	14	15	14	97	116	98	96	109	104	105	67	86	85	89	96	96	88		3,0%	5,4%	8,6%	
96	96	95	90	80	81	86	87	82	70	64	82	70	68	328	328	324	310	273	277	296	297	279	239	219	281	240	186		3,1%	-4,8%	22,7%	
11	11	11	17	14	14	15	15	13	14	14	14	13	12	89	82	82	130	108	111	115	115	103	113	112	112	101	90		5,6%	-9,4%	11,0%	
45	45	47	45	47	59	60	53	57	59	51	53	52	53	174	172	184	174	182	228	230	205	220	226	198	206	202	222	8,0%	-1,5%	-4,2%	-9,6%	
9	9	10	7	7	9	10	10	10	10	7	11	12	12	82	78	84	65	65	78	88	87	89	86	65	94	109	96		6,9%	-1,3%	12,3%	
88	82	63	58	59	63	63	61	60	51	50	52	52	53	228	213	162	149	153	163	162	158	155	133	130	134	136	148	6,1%	-1,4%	-8,3%	-9,4%	
8	9	8	9	9	8	9	9	9	9	9	8	8	8	46	53	46	51	51	46	51	50	51	53	51	50	47	47		-4,2%	-1,5%	1,8%	
139	140	134	102	101	100	110	103	110	106	92	90	92	97	276	278	267	203	202	200	174	205	219	211	145	142	147	154		-4,8%	-26,6%	-4,8%	
11	15	12	13	12	14	11	17	18	18	18	18	18	17	50	69	53	58	54	64	51	77	83	79	80	82	81	70		8,1%	-7,5%	13,4%	
188	194	168	193	178	155	148	135	142	145	127	108	105	113	669	690	598	688	633	553	421	480	505	517	362	307	299	322		-7,8%	-31,1%	-7,8%	
42	42	40	41	45	46	45	39	35	29	30	25	23	25	338	340	322	331	361	373	360	312	285	238	239	204	188	188		-6,4%	-12,8%	-0,3%	
97	97	79	65	62	62	61	63	67	56	57	58	60	34	296	297	242	198	190	189	187	194	206	171	175	176	183	113	6,2%	42,7%	25,4%	38,1%	
6	6	7	7	9	7	7	7	6	7	7	7	7	7	44	41	46	48	60	51	51	46	40	45	46	48	50	47		-0,1%	1,5%	5,7%	
113	113	119	97	83	105	107	95	90	68	64	68	67	66	620	617	653	532	458	574	468	522	491	373	282	299	365	392	63,6%	0,5%	14,0%	-7,4%	
19	20	20	19	19	20	19	18	18	17	16	16	16	16	242	251	245	241	238	248	237	228	229	216	201	201	203	190		1,0%	1,7%	6,7%	
143	116	85	75	71	76	66	60	61	56	58	66	63	63	306	247	182	159	151	162	142	128	131	120	124	140	135	145	0,9%	0,4%	-6,2%	-7,5%	
0	0	0	0	9	12	10	11	10	10	10	10	9	8	1	1	1	1	43	59			46	47	48	50	45	37		13,2%	24,9%	18,2%	
90	74	63	55	59	61	53	55	55	53	50	52	53	53	322	265	226	198	211	217	191	197	198	189	180	187	191	207	-2,5%	-0,4%	-8,2%	-8,3%	
5	6	5	6	5	6	6	5	7	7	7	8	8	8	41	51	44	45	44	51	47	42	54	53	60	66	62	58		0,4%	3,8%	6,2%	
116	121	124	114	106	95	99	87	92	108	102	106	102	93	166	173	177	163	151	135	142	124	131	153	145	151	146	143	12,9%	9,5%	7,9%	2,3%	
20	21	21	22	22	23	22	21	22	26	19	20	30	35	63	69	69	72	73	74	72	68	71	85	60	63	97	107		-16,4%	-71,4%	-9,7%	
160	161	130	66	62	56	48	48	49	60	59	61	60	63	502	506	409	206	194	175	150	149	155	188	185	191	188	212	5,5%	-4,4%	-9,3%	-12,7%	
9	9	8	7	8	8	11	8	7	8	19	20	11	11	62	62	57	51	59	54	75	57	46	58	137	142	79	75		-0,3%	-67,7%	5,4%	
														258	248	159	148	149	147	158	164											
														66	65	53	58	73	76	70	72											
75	73	68	59	59	65	61	57	68	58	55	58	63	57	291	284	266	229	231	253	237	222	266	226	216	225	245	240	21,0%	9,2%	4,1%	2,0%	
23	18	17	18	19	17	18	18	17	18	17	17	18	17	165	127	121	129	136	122	126	129	125	131	121	118	130	115		6,3%	1,7%	11,7%	
167	168	169	168	175	184	149	139	140	131	129	130	118	124	212	213	214	214	222	233	189	177	178	167	163	165	150	170	14,2%	-5,3%	-8,6%	-13,7%	
														0	0	0	0	0	0				0	0	0	0	0	0				#DIV/0!
53	51	53	45	39	42	42	42	43	61	57	62	66	64	158	155	158	135	117	125	127	127	130	184	170	186	199	208	2,3%	3,3%	-4,3%	-4,3%	

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

spezif. Verbrauch in [kWh/(m²*Jahr)]														CO2-Emissionen											Einsparungen 2017-2018							
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	FW-Leistung	Energieverbrauch	Energiekosten	CO2-Reduktion	
31	26	26	18	28	30	30	31	29	27	28	29	28	24	214	174	177	122	192	205	202	214	200	186	189	195	188	154		13,0%	8,7%	18,0%	
84	95	83	64	62	59	60	55	52	48	41	43	44	44	136	154	134	104	100	95	98	89	85	77	67	70	71	76	7,7%	0,8%	-1,7%	-7,0%	
7	8	9	8	9	9	8	8	8	8	8	8	9	8	24	29	32	29	33	34	31	29	29	31	30	31	31	31		-8,0%	-6,8%	-1,8%	
78	75	71	66	63	61	70	68	66	51	59	59	62	64	324	311	293	273	262	252	290	282	275	213	247	243	256	288	6,7%	-4,2%	-10,7%	-12,4%	
15	16	16	16	16	15	15	15	19	21	20	18	19	18	146	148	151	150	154	140	145	142	175	195	185	172	182	160		7,0%	3,3%	12,3%	
83	84	77	73	73	67	67	57	55	47	53	52	53	54	344	348	319	301	301	279	280	238	230	197	220	215	219	244	10,0%	-2,9%	-8,8%	-11,1%	
10	10	9	12	9	8	9	9	8	9	9	9	10	9	98	93	86	111	87	78	85	83	80	81	86	87	91	79		7,8%	0,6%	13,1%	
138	114	91	85	61	83	80	72	78	66	69	66	65	66	425	352	283	262	188	258	197	221	240	205	170	164	161	162		-0,9%	-20,0%	-0,9%	
21	17	12	12	12	12	12	12	12	11	10	10	11	9	147	117	87	84	81	82	81	82	83	80	71	70	76	56		20,8%	14,6%	25,4%	
147	129	130	128	125	92	62	57	58	51	39	71	59	54	177	155	156	155	151	111	60	68	70	62	37	68	57	52		8,4%	-14,8%	8,4%	
														0	0	0	0	0	0	0												
77	77	59	54	59	61	66	49	53	46	41	46	42	46	253	252	193	179	195	202	216	162	173	152	136	151	139	163	5,8%	-8,9%	-12,0%	-17,5%	
9	9	8	10	8	8	8	7	8	8	7	7	8	9	69	69	62	75	57	61	62	54	63	60	55	55	61	62		-8,0%	-1,8%	-1,7%	
71	75	65	54	56	61	57	68	66	51	47	59	52	53	140	148	128	106	110	121	111	134	130	100	93	116	102	113	5,3%	-2,6%	-4,6%	-10,7%	
7	10	8	8	9	7	7	7	7	9	8	8	8	8	31	43	37	38	39	32	31	32	32	40	38	37	37	33		6,2%	8,6%	11,6%	
82	87	83	72	68	69	69	70	73	66	56	63	64	60	383	407	389	336	315	320	324	328	340	309	259	294	297	304	4,8%	5,0%	-3,4%	-2,5%	
13	14	13	18	12	11	13	12	14	13	14	14	14	15	142	144	141	188	129	120	139	126	144	141	144	148	148	145		-4,1%	-16,8%	1,9%	
92	58	56	45	47	47	46	47	43	38	36	37	36	34	304	192	184	149	156	154	151	156	142	124	117	121	118	122	23,6%	3,9%	0,8%	-3,8%	
10	9	8	12	8	8	8	8	8	7	8	8	8	8	74	67	61	88	62	57	60	59	58	56	63	63	63	59		1,5%	-6,3%	7,1%	
110	104	80	83	100	95	89	77	57	63	30	31	32	34	75	72	55	57	69	65	49	53	39	43	16	17	17	19		-7,7%	-26,8%	-7,7%	
														0	0	0	0	0	0													
173	176	164	152	131	144	118	78	80	82	83	87	86	93	664	676	631	584	504	552	360	298	308	313	254	265	265	285		-7,6%	-29,7%	-7,6%	
21	24	26	22	22	24	22	21	20	21	23	19	20	20	158	177	194	164	167	181	168	157	148	155	173	141	146	144		-4,3%	-9,6%	1,7%	
120	120	119	126	119	111	114	109	112	121	103	115	122	120	459	461	458	485	456	427	350	419	430	464	393	442	467	498	12,0%	1,2%	-5,5%	-6,6%	
														0	0	0	0	0	0													
<b>105</b>	<b>103</b>	<b>93</b>	<b>82</b>	<b>78</b>	<b>79</b>	<b>78</b>	<b>73</b>	<b>74</b>	<b>69</b>	<b>65</b>	<b>68</b>	<b>68</b>	<b>66</b>	<b>13.014</b>	<b>11.647</b>	<b>10.171</b>	<b>9.656</b>	<b>9.915</b>	<b>8.939</b>	<b>8.949</b>	<b>8.880</b>	<b>8.155</b>	<b>7.377</b>	<b>7.692</b>	<b>7.742</b>	<b>8.208</b>	<b>8.486</b>	<b>Vergleich der Jahre 2017 mit 2018</b>				
13	13	12	12	13	13	13	12	12	12	12	12	12	12	5.146	4.955	4.104	3.431	4.637	3.584	3.486	4.171	4.181	3.119	3.434	3.466	3.406	3.128	12,8%	2,2%	-5,2%	-3,4%	
<b>118</b>	<b>116</b>	<b>105</b>	<b>94</b>	<b>90</b>	<b>92</b>	<b>90</b>	<b>85</b>	<b>86</b>	<b>80</b>	<b>77</b>	<b>80</b>	<b>80</b>	<b>78</b>	<b>18.160</b>	<b>16.602</b>	<b>14.275</b>	<b>13.087</b>	<b>14.551</b>	<b>12.523</b>	<b>12.435</b>	<b>13.051</b>	<b>12.336</b>	<b>10.497</b>	<b>11.125</b>	<b>11.208</b>	<b>11.614</b>	<b>11.614</b>	12,8%	2,2%	-5,0%	0,0%	
127	127	68	96	73	83	77	76	74	73	74	79			61	61	33	47	36	40	37	37	36	35	36	38							
27	30	23	21	23	17	15	21	16	17	22	17			29	33	25	23	25	19	17	23	18	18	24	19							
122	125	108	89	81	80	75	74	76	72	70	74	73	75	125	128	110	91	83	81	76	75	77	73	71	75	74	83	27,4%	-3,8%	2,8%	-12,1%	
12	12	8	9	9	12	14	22	15	13	14	13	12	12	28	27	18	20	20	27	32	51	34	31	31	30	28	25		3,9%	6,0%	9,5%	
185	142	128	119	124	128	130	125	129	116	113	112	123	119	50	38	35	32	34	35	35	34	35	31	31	30	33	35	52,7%	3,4%	92,9%	-4,3%	
33	12	21	19	19	23	22	23	25	17	17	27	28	29	20	7	13	12	11	14	13	14	16	11	10	17	17	17		-4,6%	32,5%	1,4%	
106	100	91	83	88	95	94	91	95	95	87	87	85	81	181	170	155	142	150	163	160	155	162	162	148	148	144	150	3,0%	3,7%	-6,2%	-4,0%	
10	8	8	9	9	10	12	5	10	10	11	9	11	11	38	29	29	34	35	39	48	18	39	39	41	34	42	39		3,6%	0,7%	9,1%	
329	371	181	198	221	233	210	223	222	219	213	262	280	281	136	153	75	82	91	96	87	92	92	90	88	108	116	125	13,6%	-0,6%	-4,7%	-8,6%	
16	27	20	24	16	12	15	24	10	13	9	13	14	12	15	25	19	23	15	12	14	23	9	12	9	12	13	11		13,9%	14,0%	18,8%	
113	118	114	96	88	90	84	81	78	77	77	86	90	92	110	116	111	94	86	88	82	79	76	76	75	84	88	97	30,4%	-2,2%	4,2%	-10,3%	
6	8	8	8	8	12	12	12	12	8	11	10	10	9	14	18	18	18	18	27	26	27	27	18	24	23	22	18		12,8%	26,5%	17,8%	
371	372	288	266	216	235	257	211	210	209	196	227	243	260	662	663	513	474	386	419	366	376	375	373	278	323	432	369		-7,1%	-29,8%	14,6%	
3	12	12	12	12	11	12	10	12	11	11	12	9	9	12	51	47	47	47	46	47	42	50	44	46	47	38	36		-1,6%	13,6%	4,3%	
163	119	69	174	163	212	160	157	155	152	128	128	130	145	62	45	26	66	62	81	49	60	59	58	39	39	39	44		-11,6%	-33,3%	-11,6%	
31	33	43	35	28	31	25	21	19	24	25	30	26	18	27	29	37	30	25	26	22	18	16	21	22	26	22	15		31,1%	48,5%	35,0%	
126	123	105	108	105	109	111	110	100	89	95	115	106	98	36	35	30	31	30	31	32	31	28	25	27	33	30	30		-4,3%	7,7%	7,5%	0,4%

Darstellung der witterungsbereinigten Energieverbräuche und -Kosten

spezif. Verbrauch in [kWh/(m²*Jahr)]														CO2-Emissionen										Einsparungen 2017-2018											
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	FW-Leistung	Energieverbrauch	Energiekosten	CO2-Reduktion				
														t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a	t/a				
15	19	18	20	17	13	13	13	13	12	11	11	15	12	10	12	11	13	11	8	8	8	8	8	7	7	9	7		19,9%	11,4%	24,5%				
145	116	109	100	103	99	101	108	101	79	89	99	88	96	69	55	52	48	49	47	49	52	49	38	42	47	42	49	1,6%	-9,1%	-4,0%	-17,8%				
90	88	85	81	76	72	75	72	73	70	69	71	75	80	196	192	184	177	165	156	164	156	159	153	151	154	162	187	1,8%	-6,9%	-12,0%	-15,4%				
14	15	14	22	15	13	14	13	13	11	12	13	13	12	68	75	71	109	75	63	69	64	64	55	60	65	62	54	7,6%	-1,2%	12,9%					
167	144	141	124	118	106	98	93	99	94	91	100	96	96	102	88	86	76	72	65	48	57	61	57	44	49	47	47	0,2%	-20,4%	0,2%					
12	15	15	14	16	22	17	20	20	18	18	19	18	19	17	21	20	20	23	31	23	28	27	25	25	27	25	24	-0,9%	12,4%	4,9%					
111	115	111	109	74	65	77	75	75	69	62	79	77	81	15	15	15	15	10	9	8	10	10	9	7	9	8	9	-5,5%	-23,5%	-5,5%					
15	15	18	20	17	17	16	14	12	11	11	7	9	10	5	5	6	6	5	5	5	4	4	3	3	2	3	3	-9,8%	-6,9%	-3,5%					
<b>168</b>	<b>164</b>	<b>133</b>	<b>128</b>	<b>117</b>	<b>122</b>	<b>122</b>	<b>113</b>	<b>114</b>	<b>110</b>	<b>105</b>	<b>116</b>	<b>116</b>	<b>120</b>	<b>1.805</b>	<b>1.760</b>	<b>1.424</b>	<b>1.373</b>	<b>1.253</b>	<b>1.310</b>	<b>1.193</b>	<b>1.214</b>	<b>1.218</b>	<b>1.181</b>	<b>1.036</b>	<b>1.137</b>	<b>1.216</b>	<b>1.225</b>	<b>Vergleich der Jahre 2017 mit 2018</b>							
12	14	13	15	13	13	14	14	14	12	13	14	13	12	283	332	315	355	310	316	324	319	312	285	302	307	282	248	17,5%	-3,9%	-6,1%	-0,8%				
<b>180</b>	<b>178</b>	<b>146</b>	<b>143</b>	<b>130</b>	<b>135</b>	<b>137</b>	<b>127</b>	<b>128</b>	<b>123</b>	<b>119</b>	<b>130</b>	<b>128</b>	<b>132</b>	<b>2.088</b>	<b>2.092</b>	<b>1.740</b>	<b>1.728</b>	<b>1.563</b>	<b>1.627</b>	<b>1.517</b>	<b>1.532</b>	<b>1.530</b>	<b>1.466</b>	<b>1.338</b>	<b>1.445</b>	<b>1.498</b>	<b>1.474</b>	<b>17,5%</b>	<b>-2,8%</b>	<b>-0,2%</b>	<b>1,6%</b>				
87	88	80	104	100	95	103	105	96	91	71	82	76	80	141	142	130	168	161	153	166	169	155	147	115	133	122	139	28,2%	-5,2%	-3,6%	-13,6%				
76	72	58	65	81	81	82	76	79	69	92	85	80	61	277	262	214	236	296	297	298	277	290	253	336	311	291	212	22,9%	15,8%	27,4%					
413	361	371	285	260	275	229	223	171	239	132	144	160	120	96	84	86	66	60	64	42	52	40	56	24	27	30	30	0,0%	24,8%	52,6%	-1,8%				
37	49	44	41	51	51	51	29	46	44	39	52	52	62	19	26	23	22	27	27	27	15	24	23	21	28	27	31	-18,8%	-15,6%	-12,0%					
106	82	86	79	82	83	86	72	83	80	83	80	105	113	95	73	77	70	73	74	77	64	74	71	74	71	93	109	53,4%	-8,3%	8,5%	-16,9%				
297	259	316	331	314	296	285	232	226	217	151	156	173	154	49	42	52	54	51	49	37	38	37	36	20	20	23	27	11,0%	-6,0%	-20,4%					
32	35	34	29	49	45	47	27	33	32	32	22	20	15	12	13	13	11	18	17	17	10	12	12	8	7	5	23,6%	24,9%	28,0%						
323	284	255	249	231	212	196	164	156	164	154	152	171	154	183	161	144	141	131	120	88	92	88	93	69	68	77	94	10,2%	-7,5%	-21,6%					
120	120	147	110	116	123	143	115	119	102	117	117	114	98	91	92	112	84	89	94	109	88	90	78	89	89	87	81	20,3%	13,9%	3,9%	7,1%				
36	34	30	37	37	65	44	40	43	31	43	25	41	15	62	59	52	63	64	112	77	69	75	53	75	43	72	24	64,1%	62,9%	66,1%					
158	238	262	272	254	242	263	244	152	167	143	173	186	121	27	41	45	47	44	42	36	42	26	29	20	24	26	23	35,0%	21,3%	12,1%					
42	40	53	60	53	49	50	59	54	35	50	55	46	39	17	16	21	24	21	19	20	23	21	14	20	22	18	14	14,7%	20,5%	19,6%					
248	219	207	216	203	161	123	139	138	133	137	142	132	130	330	292	276	288	270	214	131	185	183	177	145	151	140	187	1,2%	-19,2%	-33,7%					
37	44	23	28	37	34	44	39	36	31	50	49	30	30	113	133	71	86	112	103	132	118	109	92	150	148	90	85	0,4%	2,1%	6,1%					
187	163	152	147	131	132	122	114	86	96	82	46	69	93	98	86	80	77	69	69	51	60	45	50	34	19	29	53	-34,1%	-58,5%	-81,4%					
18	25	16	18	20	15	17	16	12	13	15	12	16	15	22	29	19	22	23	17	20	19	14	15	17	14	19	17	7,8%	7,0%	13,1%					
348	376	119	289	334	374	355	373	339	340	348	344	339	360	182	197	62	151	175	196	148	195	177	178	182	180	177	204	18,7%	-6,4%	-13,7%	-14,9%				
60	60	39	41	57	55	47	48	48	47	36	28	40	36	71	71	47	49	68	65	55	57	57	55	42	33	47	40	10,5%	-3,6%	15,6%					
123	125	129	118	104	103	118	104	105	116	112	121	85	96	65	66	67	62	55	54	49	55	55	61	58	63	45	54	43,2%	-13,1%	20,0%	-22,0%				
43	43	43	43	43	43	58	56	50	55	58	54	59	70	51	51	51	51	51	51	69	66	60	65	69	64	70	78	-19,1%	-19,5%	-12,3%					
1.436	1.214	1.232	1.130	864	730	518	517	475	511	499	564	536	547	752	636	645	592	452	382	216	271	249	268	261	295	281	309	21,9%	-2,1%	-3,2%	-10,2%				
590	515	466	1.318	1.159	289	264	357	673	570	648	618	618	774	701	612	554	1.567	1.377	343	314	424	800	677	771	734	734	866	-25,3%	2,0%	-18,0%					
<b>181</b>	<b>164</b>	<b>153</b>	<b>155</b>	<b>140</b>	<b>130</b>	<b>116</b>	<b>113</b>	<b>105</b>	<b>107</b>	<b>101</b>	<b>105</b>	<b>104</b>	<b>104</b>	<b>2.108</b>	<b>1.911</b>	<b>1.777</b>	<b>1.800</b>	<b>1.631</b>	<b>1.511</b>	<b>1.151</b>	<b>1.311</b>	<b>1.219</b>	<b>1.242</b>	<b>1.093</b>	<b>1.141</b>	<b>1.128</b>	<b>1.309</b>	<b>Vergleich der Jahre 2017 mit 2018</b>							
51	48	40	81	78	40	39	41	55	48	57	53	52	55	1.346	1.273	1.064	2.131	2.058	1.051	1.029	1.079	1.463	1.261	1.513	1.405	1.377	1.373	27,1%	-0,2%	-1,4%	-16,0%				
<b>232</b>	<b>213</b>	<b>193</b>	<b>236</b>	<b>218</b>	<b>170</b>	<b>155</b>	<b>154</b>	<b>160</b>	<b>155</b>	<b>158</b>	<b>158</b>	<b>156</b>	<b>159</b>	<b>3.454</b>	<b>3.184</b>	<b>2.840</b>	<b>3.931</b>	<b>3.689</b>	<b>2.562</b>	<b>2.180</b>	<b>2.390</b>	<b>2.683</b>	<b>2.503</b>	<b>2.605</b>	<b>2.547</b>	<b>2.505</b>	<b>2.681</b>	<b>27,1%</b>	<b>-2,0%</b>	<b>3,4%</b>	<b>-7,0%</b>				
<b>116</b>	<b>114</b>	<b>102</b>	<b>93</b>	<b>87</b>	<b>88</b>	<b>86</b>	<b>82</b>	<b>79</b>	<b>74</b>	<b>70</b>	<b>73</b>	<b>74</b>	<b>73</b>	<b>18.047</b>	<b>18.047</b>	<b>15.861</b>	<b>15.158</b>	<b>14.902</b>	<b>13.973</b>	<b>13.455</b>	<b>13.584</b>	<b>12.212</b>	<b>11.283</b>	<b>11.256</b>	<b>11.512</b>	<b>12.287</b>	<b>12.759</b>	<b>Vergleich der Jahre 2017 mit 2018</b>							
18	18	16	19	19	17	17	17	16	16	17	16	16	16	8.053	8.053	7.025	7.420	8.545	6.534	6.423	7.122	7.008	5.693	6.412	6.350	6.241	5.841	13,9%	2,0%	-4,2%	-3,8%				
<b>134</b>	<b>131</b>	<b>118</b>	<b>112</b>	<b>106</b>	<b>105</b>	<b>103</b>	<b>98</b>	<b>95</b>	<b>89</b>	<b>87</b>	<b>89</b>	<b>90</b>	<b>89</b>	<b>26.101</b>	<b>26.101</b>	<b>22.886</b>	<b>22.578</b>	<b>23.447</b>	<b>20.507</b>	<b>19.878</b>	<b>20.705</b>	<b>19.219</b>	<b>16.976</b>	<b>17.668</b>	<b>17.862</b>	<b>18.528</b>	<b>18.600</b>	<b>13,9%</b>	<b>1,8%</b>	<b>-3,0%</b>	<b>-0,4%</b>				