



Energiebericht 2008

Stadt Olfen
Der Bürgermeister
Bauamt

1. Rathaus

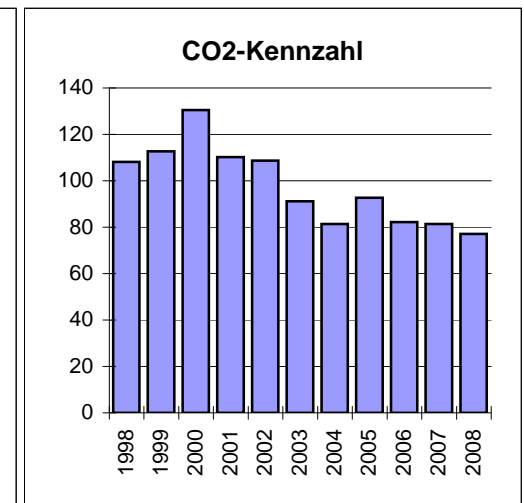
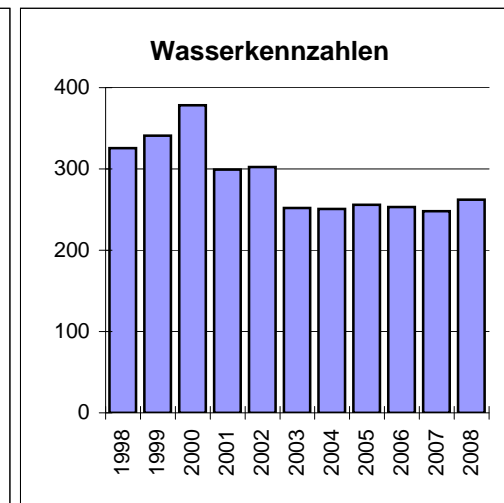
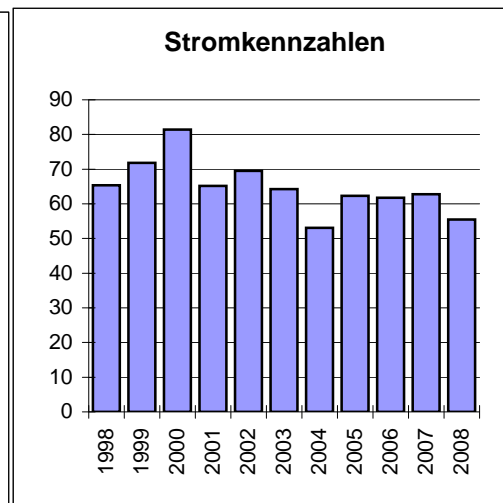
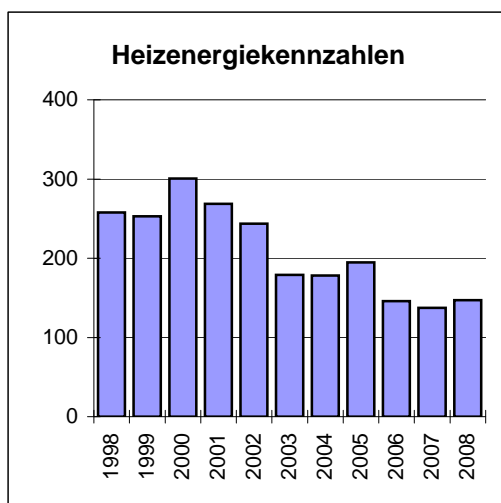
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	166	163	194	173	157	139	138	151	113	106	114								
Strom	MWh/a	42	46	52	42	45	50	41	48	48	49	43								
Wasser	m³/a	210	220	244	193	195	195	194	198	196	192	203								
CO2-Emission	t/a	70	73	84	71	70	71	63	72	64	63	60								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	258	253	300	269	244	179	178	195	146	137	147								
Stromkennzahl	kWh/m²a	65	72	81	65	70	64	53,1	62,3	61,7	62,7	55,5								
Wasserkennzahl	l/m²	326	341	378	299	302	252	250,6	255,8	253,2	248,1	262,3								
CO2-Kennzahl	kg /m²	108	113	130	110	109	91	81,4	92,6	82,2	81,4	77,1								



BEZUGSDATEN

Energiebezugsfläche	m²	645	645	645	645	645	774	774	774	774	774	774	774	774						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

2. Stadthalle

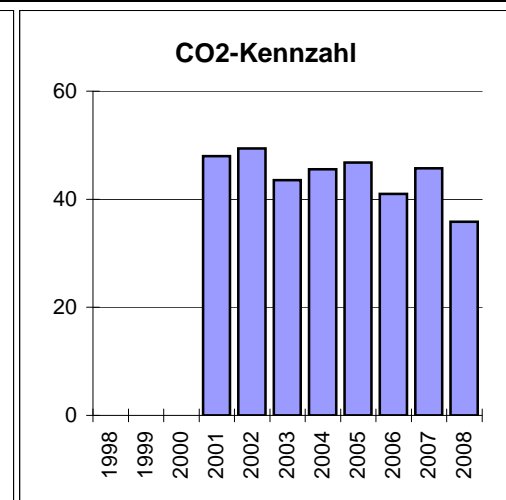
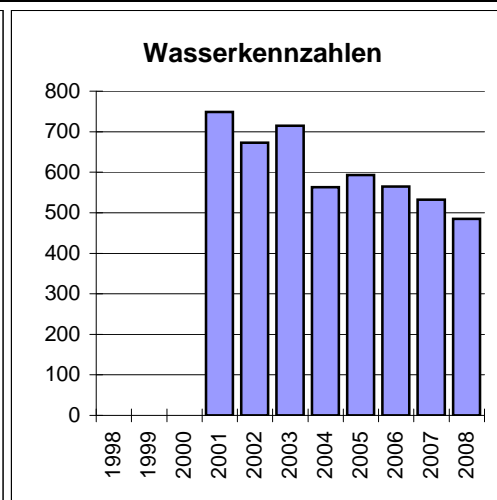
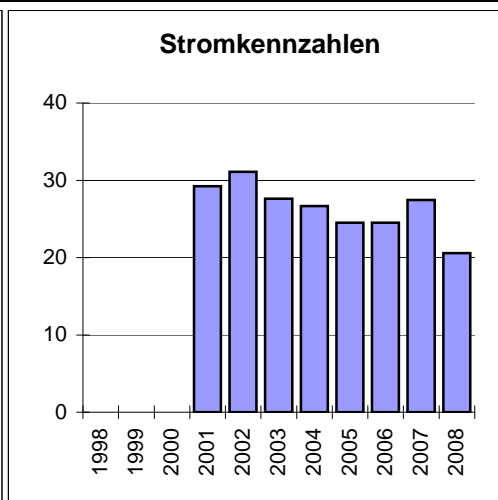
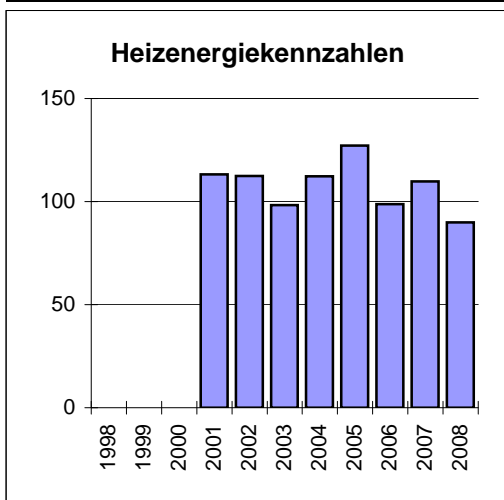
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	k.A.	94	93	82	93	106	82	91	75								
Strom	MWh/a	k.A.	k.A.	k.A.	24	26	23	22	20	20	23	17								
Wasser	m³/a	k.A.	k.A.	k.A.	622	559	594	468	493	469	442	403								
CO2-Emission	t/a	k.A.	k.A.	k.A.	40	41	36	38	39	34	38	30								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	k.A.	113	112	98	112	127	99	110	90								
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	29	31	28	26,7	24,5	24,5	27,4	20,6								
Wasserkennzahl	l/m²	k.A.	k.A.	k.A.	749	673	715	563,4	593,4	564,6	532,1	485,1								
CO2-Kennzahl	kg/m²	k.A.	k.A.	k.A.	48	49	44	45,6	46,8	41,0	45,7	35,8								



BEZUGSDATEN

Energiebezugsfläche	m²	831	831	831	831	831	831	831	831	831	831	831	831	831						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

3. Feuerwehr-Gerätehaus

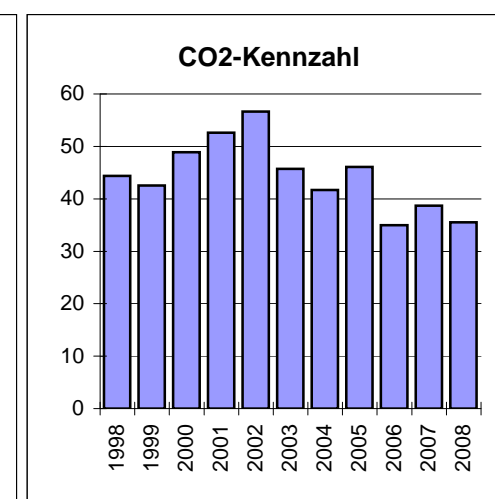
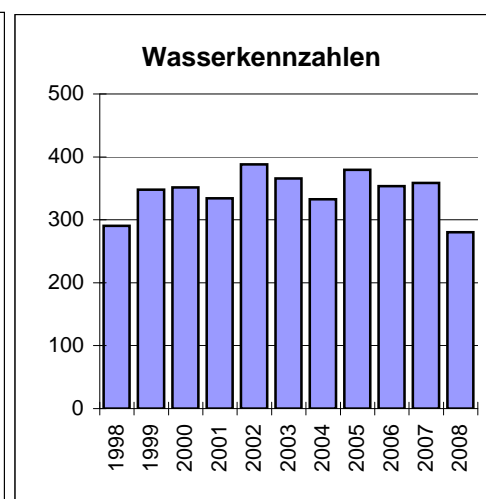
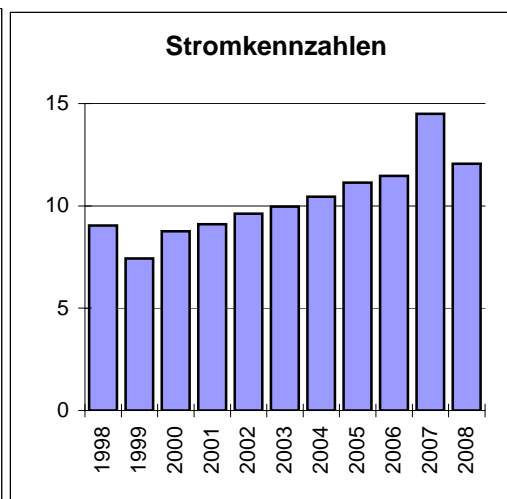
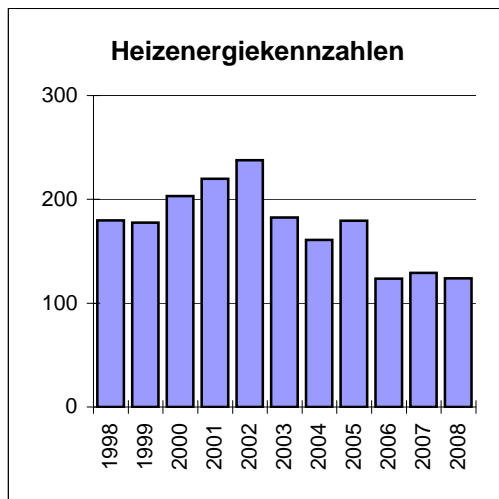
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	103	102	117	126	136	105	92	103	71	74	71								
Strom	MWh/a	5	4	5	5	6	6	6	6	7	8	7								
Wasser	m³/a	167	200	202	192	223	210	191	218	203	206	161								
CO2-Emission	t/a	25	24	28	30	33	26	24	26	20	22	20								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	180	177	203	220	238	183	161	180	124	129	124								
Stromkennzahl	kWh/m²a	9	7	9	9	10	10	10,4	11,1	11,5	14,5	12,1								
Wasserkennzahl	l/m²	291	348	352	334	388	366	332,5	379,5	353,4	358,6	280,2								
CO2-Kennzahl	kg/m²	44	43	49	53	57	46	41,7	46,1	35,0	38,7	35,6								



BEZUGSDATEN

Energiebezugsfläche	m²	575	575	575	575	575	575	575	575	575	575	575	575	575						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

4. Fröbel-Kindergarten

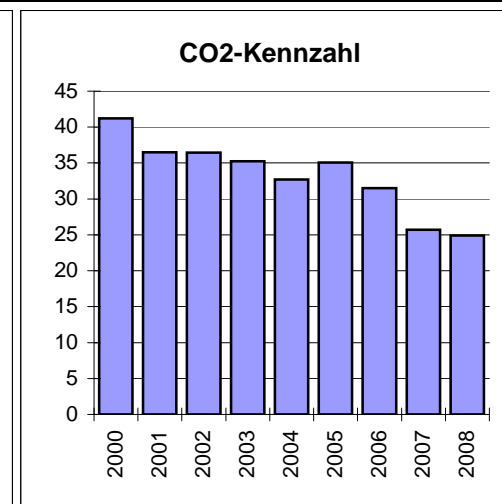
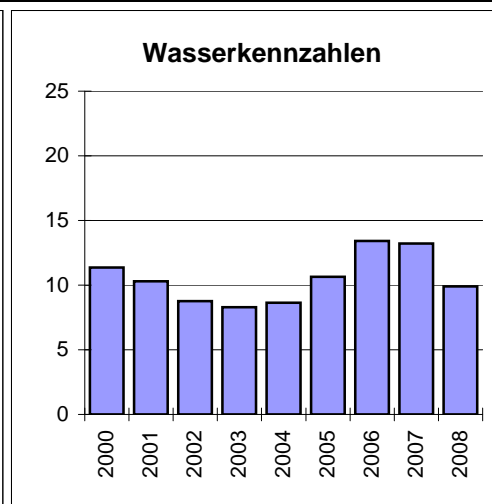
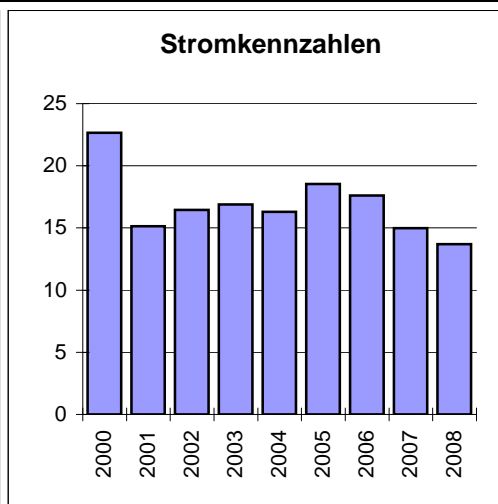
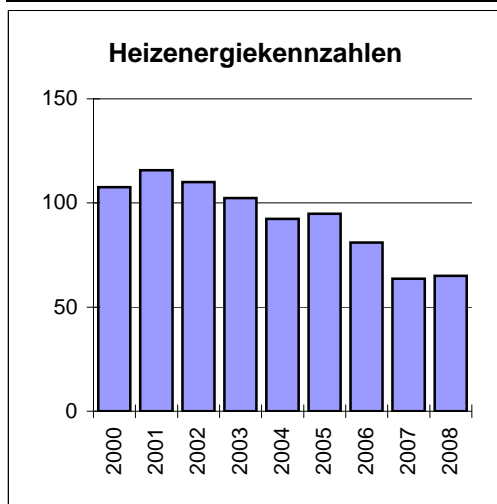
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	38	41	39	36	33	34	29	32	33								
Strom	MWh/a	k.A.	k.A.	8	5	6	6	6	7	6	8	7								
Wasser	m³/a	k.A.	k.A.	193	175	149	141	147	181	228	247	185								
CO2-Emission	t/a	k.A.	k.A.	15	13	13	12	12	12	11	13	13								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	108	116	110	102	92	95	81	64	65								
Stromkennzahl	kWh/m²a	k.A.	k.A.	23	15	16	17	16,3	18,5	17,6	15,0	13,7								
Wasserkennzahl	l/Nut*d	k.A.	k.A.	11	10	9	8	8,6	10,6	13,4	13,2	9,9								
CO2-Kennzahl	kg/m²	k.A.	k.A.	41	36	36	35	32,7	35,1	31,5	25,7	24,9								



BEZUGSDATEN

Energiebezugsfläche	m²	353	353	353	353	353	353	353	353	353	510	510	510	510						
Zahl der Nutzer	Anz.	50	50	50	50	50	50	50	50	50	55	55	55	55						

5.1. Gesamtschule

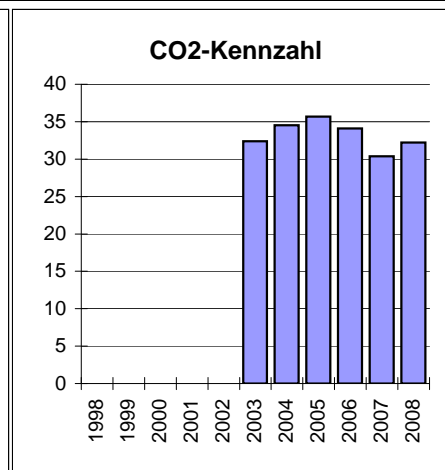
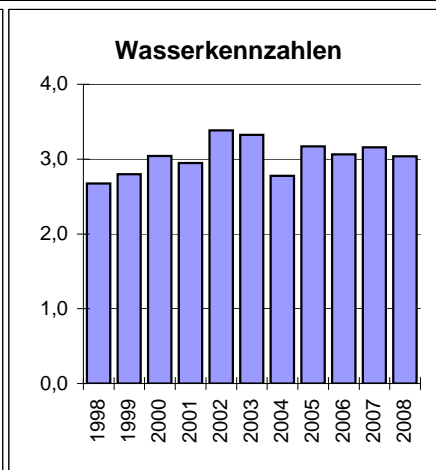
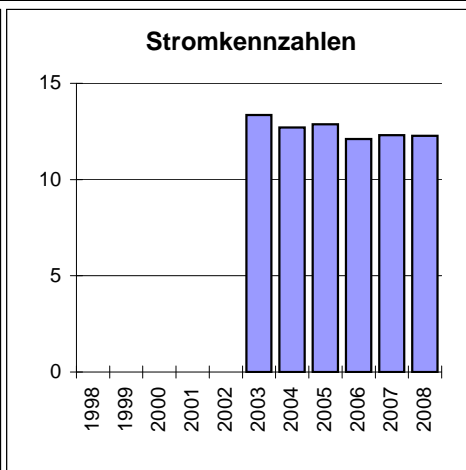
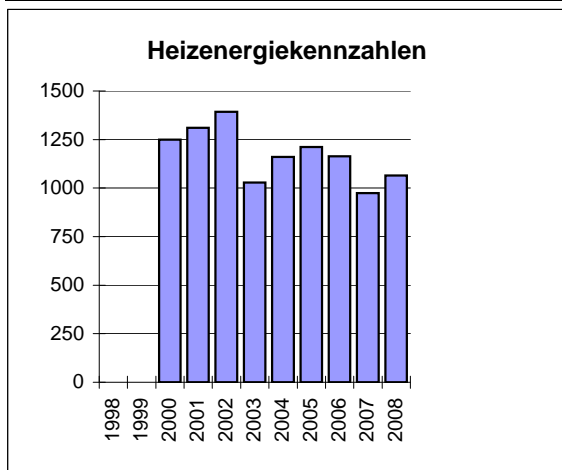
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	1249	1311	1393	1028	1161	1211	1163	974	1065								
Strom	MWh/a	k.A.	k.A. 917	k.A.	k.A.	k.A.	133	127	128	121	123	123								
Wasser	m³/a	774	821	889	871	1029	991	835	960	917	915	909								
CO2-Emission	t/a	k.A.	k.A.	k.A.	k.A.	k.A.	323	345	356	340	303	321								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	125	131	140	103	116	121	117	98	107								
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	k.A.	k.A.	13	13	13	12	12	12								
Wasserkennzahl	l/Nut*d	2,7	2,8	3,0	2,9	3,4	3,3	2,8	3,2	3,1	3,2	3,0								
CO2-Kennzahl	kg/m²	k.A.	k.A.	k.A.	k.A.	k.A.	32	35	36	34	30	32								



BEZUGSDATEN

Energie- bezugs- fläche	Altbau	m²	4361	4361	4361	4361	4361	2561	2561	2561	2561	2561	2561	2561						
	Neubau		5619	5619	5619	5619	5619	7419	7419	7419	7419	7419	7419	7419						
	Gesamt		9980	9980	9980	9980	9980	9980	9980	9980	9980	9980	9980	9980						
Zahl der Nutzer		Anz.	813	824	821	830	854	837	845	851	841	814	841	841	841					

5.2. Grundschule

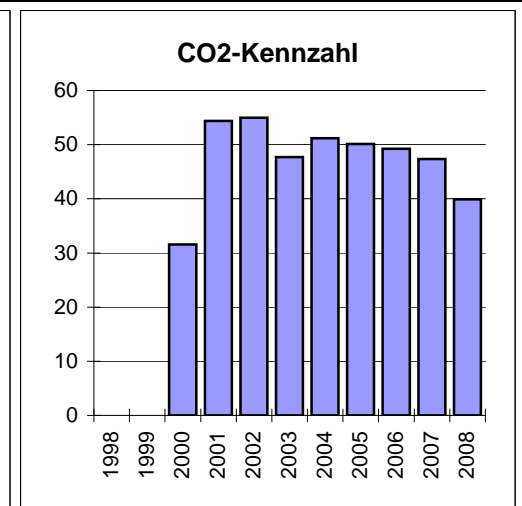
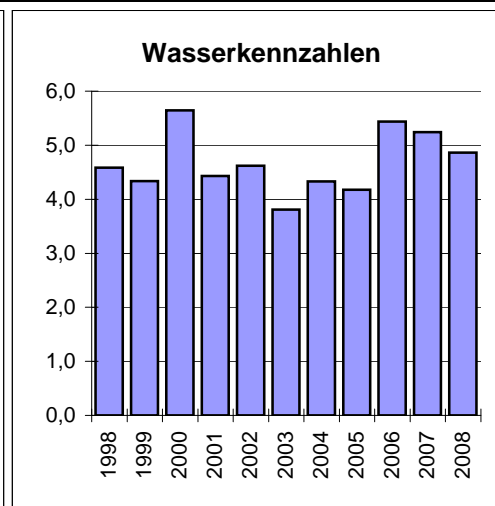
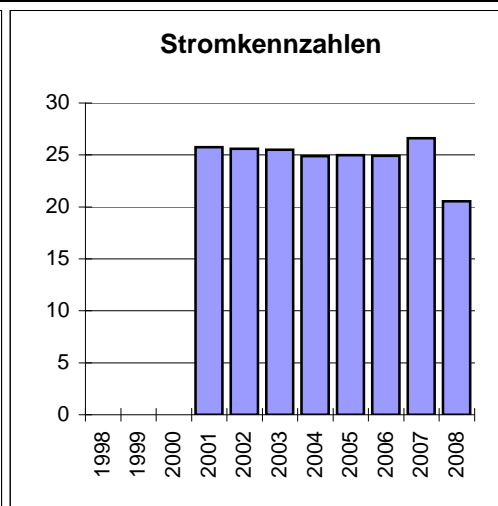
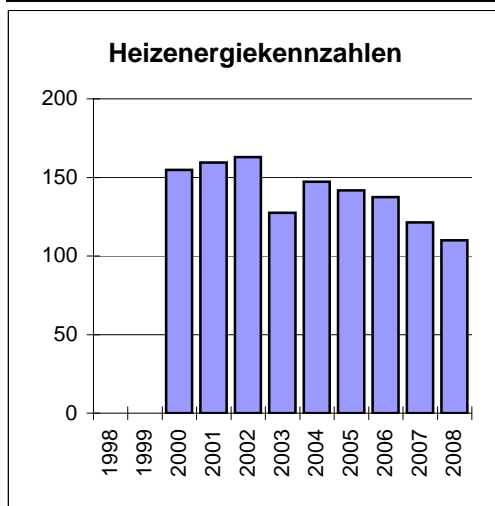
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	581	599	611	479	553	532	516	481	436								
Strom	MWh/a	k.A.	k.A.	k.A.	97	96	96	93	94	94	106	82								
Wasser	m³/a	945	928	1228	953	1016	856	1009	943	1069	1133	1051								
CO2-Emission	t/a	k.A.	k.A.	119	204	206	179	192	188	185	188	158								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	155	159	163	128	147	142	137	121	110								
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	26	26	26	24,9	25,0	24,9	26,6	20,5								
Wasserkennzahl	l/Nut*d	4,6	4,3	5,6	4,4	4,6	3,8	4,3	4,2	5,4	5,2	4,9								
CO2-Kennzahl	kg/m²	k.A.	k.A.	32	54	55	48	51,2	50,2	49,2	47,4	39,9								



BEZUGSDATEN

Energiebezugsfläche	m²	3754	3754	3754	3754	3754	3754	3754	3754	3754	3969	3969	3969	3969						
Zahl der Nutzer	Anz.	579	601	611	604	618	631	655	634	552	607	607	607	607						

6.1 Steverstadion

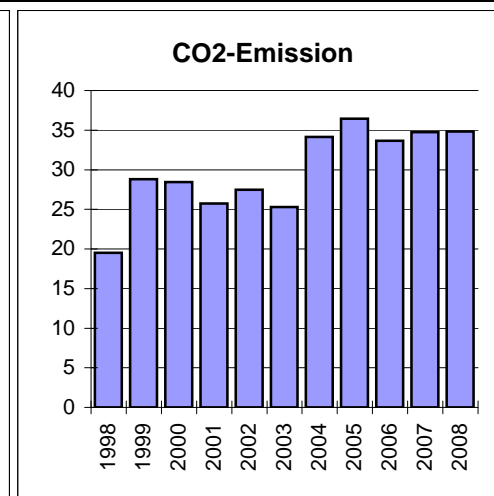
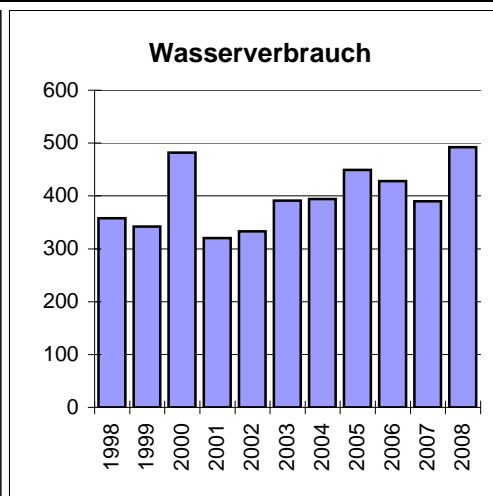
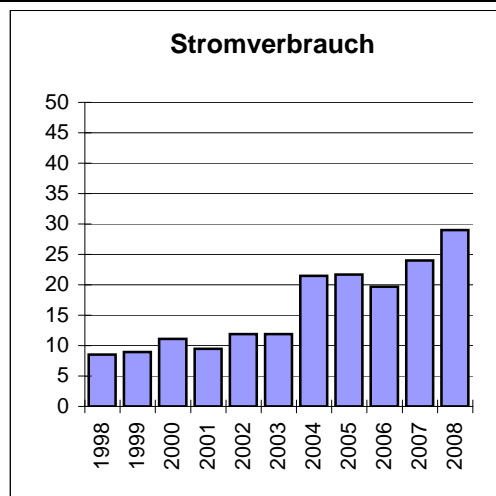
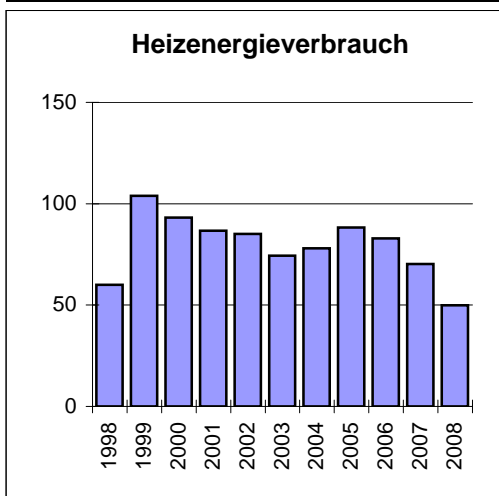
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt) Umkleidegebäude	MWh/a	60	104	93	87	85	74	78	88	83	70	50								
Strom	MWh/a	9	9	11	9	12	12	21,5	21,7	20	24	29								
Wasser	m³/a	358	342	482	320	333	391	394,0	449,0	428	390	492								
CO2-Emission	t/a	20	29	28	26	27	25	34,2	36,4	34	35	35								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a											7								
Stromkennzahl	kWh/m²a											3,8								
Wasserkennzahl	l/m²											64,5								
CO2-Kennzahl	kg/m²											4,6								



BEZUGSDATEN

Energiebezugsfläche	m²	7630	7630	7630	7630	7630	7630	7630	7630	7630	7630	7630	7630	7630						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

6.2 Sportplatz Vinnum

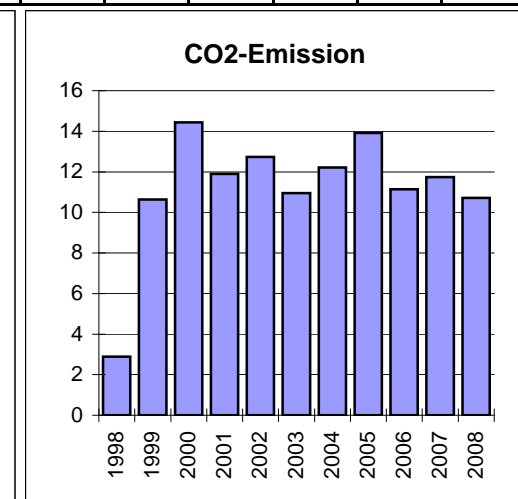
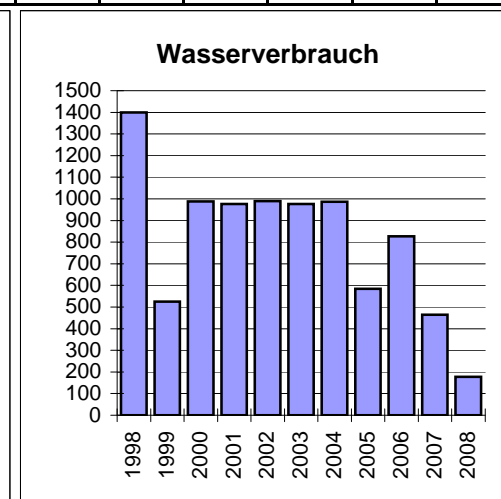
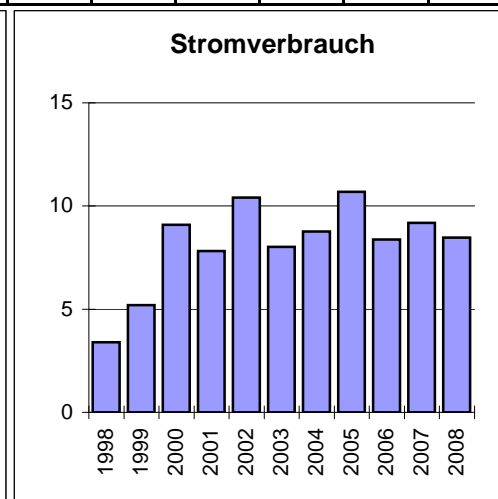
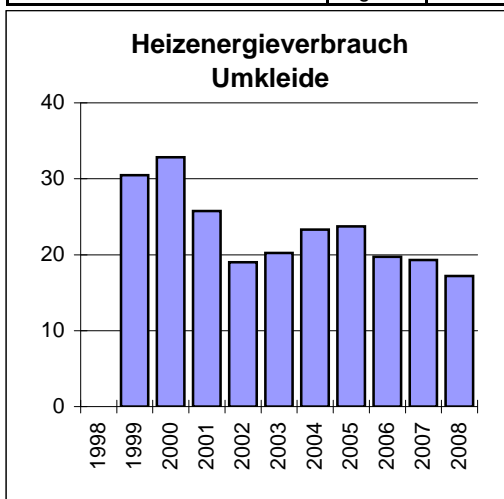
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VERBRÄUCHE

Heizenergie (bereinigt) Umkleidegebäude	MWh/a	k.A.	30	33	26	19	20	23	24	20	19	17									
Strom	MWh/a	3	5	9	8	10	8	8,8	10,7	8	9	8									
Wasser	m³/a	1399	525	988	977	990	977	987,0	585,0	827	464	178									
CO2-Emission	t/a	3	11	14	12	13	11	12,2	13,9	11	12	11									

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a																				
Stromkennzahl	kWh/m²a																				
Wasserkennzahl	l/m²																				
CO2-Kennzahl	kg/m²																				



BEZUGSDATEN

Energiebezugsfläche	m²	7712	7712	7712	7712	7712	7712	7712	7712	7712	7712	7712	7712	7712							
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.							

7.1. Ballsporthalle

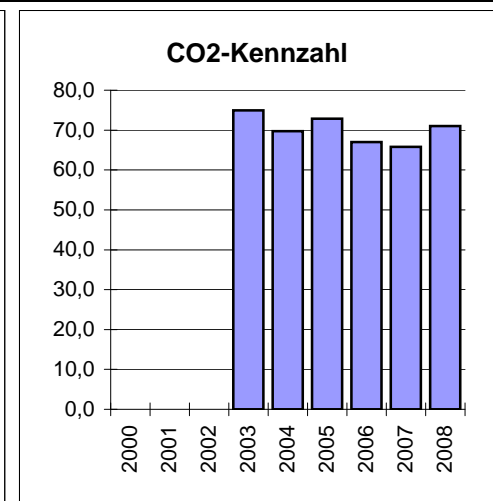
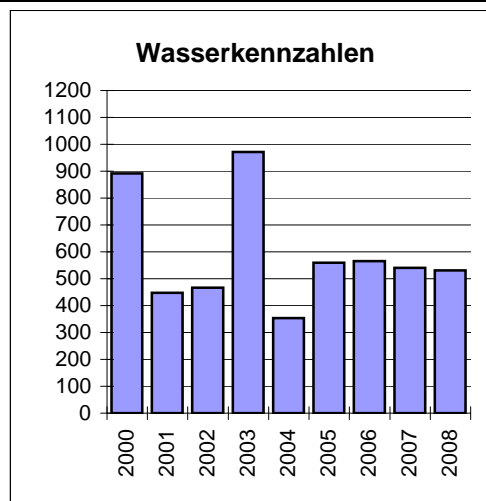
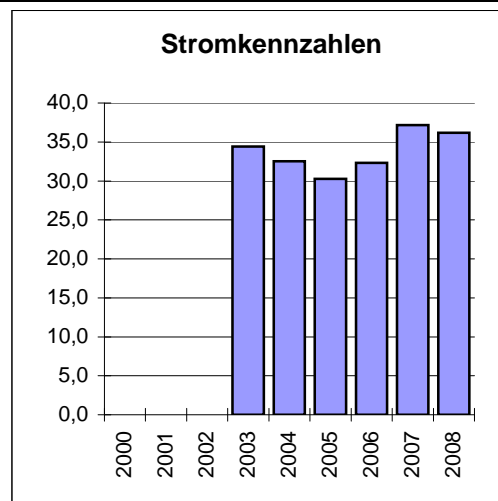
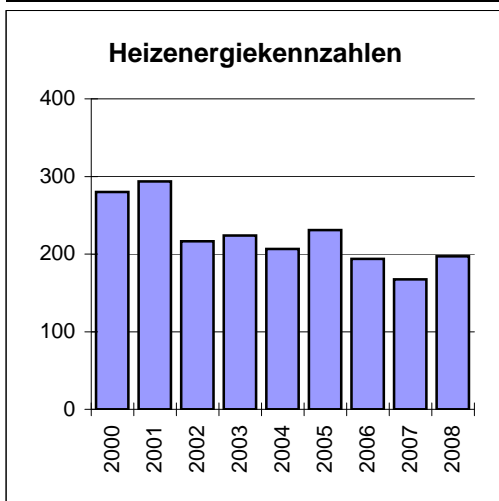
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	374	392	289	299	275	308	258	224	263								
Strom	MWh/a	k.A.	k.A.	k.A.	k.A.	k.A.	46	43	40	43	50	48								
Wasser	m³/a	k.A.	k.A.	1190	597	622	1297	472	747	754	721	708								
CO2-Emission	t/a	k.A.	k.A.	k.A.	k.A.	k.A.	100	93	97	89	88	95								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	280	293	217	224	206	231	194	168	197								
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	k.A.	k.A.	34,4	32,5	30,3	32,3	37,2	36,2								
Wasserkennzahl	l/m²	k.A.	k.A.	892	447	466	972	353,7	559,8	565,1	540,3	530,6								
CO2-Kennzahl	kg/m²	k.A.	k.A.	k.A.	k.A.	k.A.	75,0	69,7	72,8	67,0	65,8	71,0								



BEZUGSDATEN

Energiebezugsfläche	m²	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

7.2. Sporthalle und Feuerwehr Vinnum

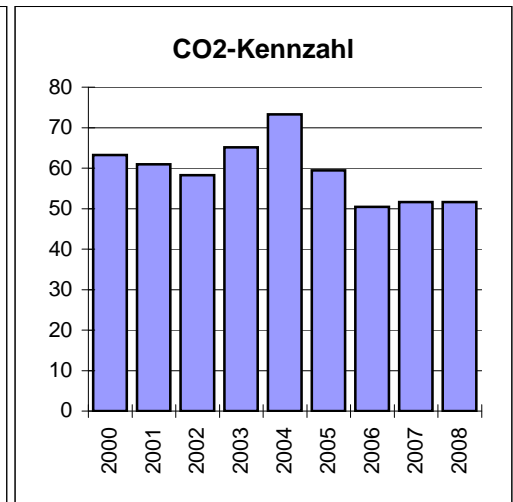
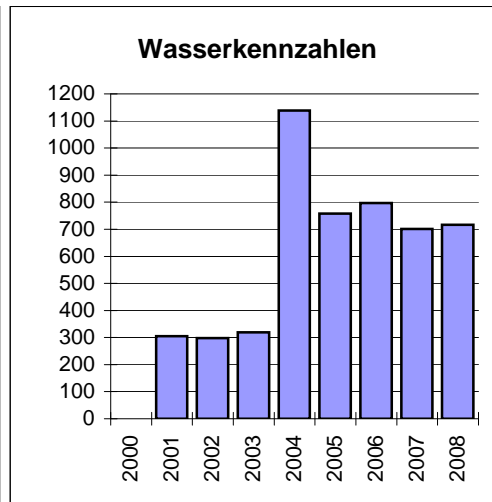
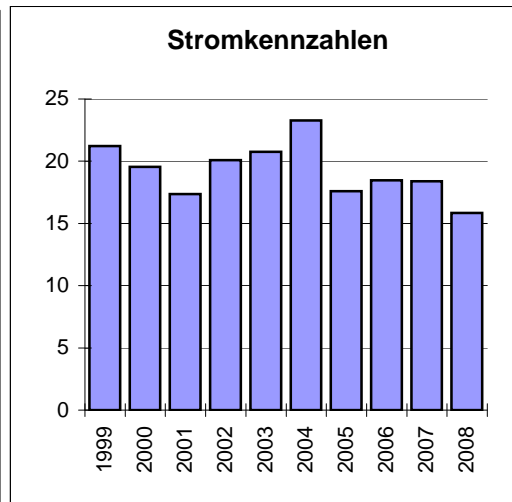
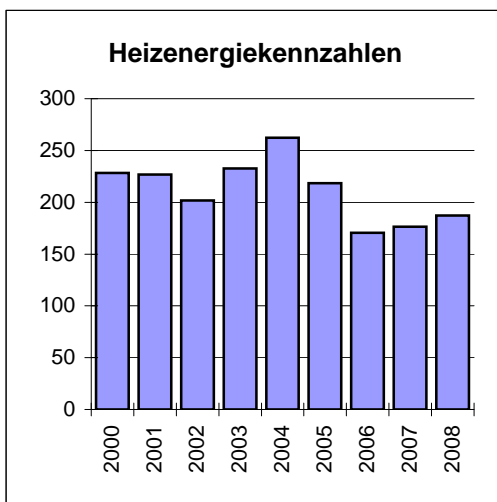
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	151	150	133	154	173	144	113	117	124								
Strom	MWh/a	k.A.	14	13	11	13	14	15	12	12	12	10								
Wasser	m³/a	k.A.	k.A.	k.A.	202	197	211	753	501	527	464	474								
CO2-Emission	t/a	k.A.	k.A.	42	40	39	43	48	39	33	34	34								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	228	227	202	233	262	218	170	176	187								
Stromkennzahl	kWh/m²a	k.A.	21	20	17	20	21	23,3	17,6	18,5	18,4	15,9								
Wasserkennzahl	l/m²	k.A.	k.A.	k.A.	305	298	319	1138,4	757,4	796,7	701,5	716,6								
CO2-Kennzahl	kg/m²	k.A.	k.A.	63	61	58	65	73,3	59,5	50,5	51,6	51,6								



BEZUGSDATEN

Energiebezugsfläche	m²	661	661	661	661	661	661	661	661	661	661	661	661	661						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

7.3. Turn- und Schwimmhalle

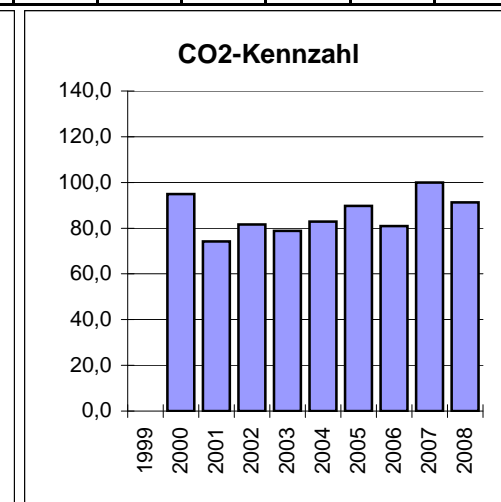
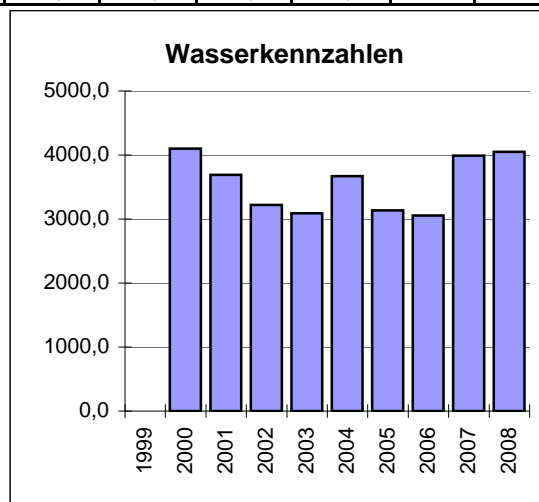
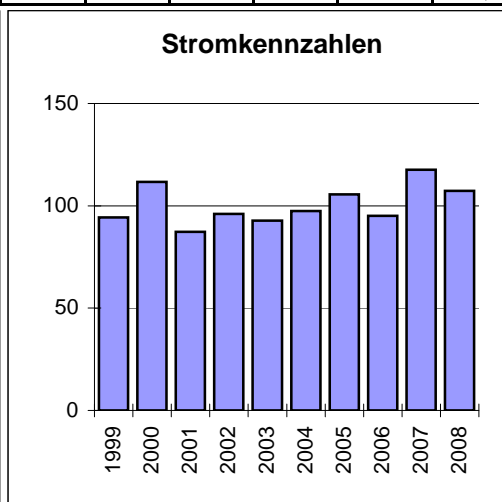
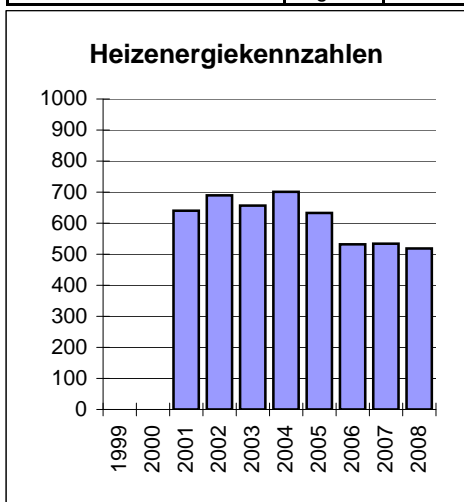
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	k.A.	702	756	719	768	694	584	586	568								
Strom	MWh/a	k.A.	103	122	96	105	102	107	116	104	129	118								
Wasser	m³/a	k.A.	k.A.	4494	4046	3527	3388	4022	3437	3350	4373	4438								
CO2-Emission	t/a	k.A.	k.A.	104	81	89	86	91	98	89	110	100								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	k.A.	640	690	656	701	633	532	534	518								
Stromkennzahl	kWh/m²a	k.A.	94	112	87	96	93	97,5	105,6	95,1	117,6	107,4								
Wasserkennzahl	l/m²	k.A.	k.A.	4100	3691	3218	3091	3669	3135	3056	3989	4049								
CO2-Kennzahl	kg/m²	k.A.	k.A.	95	74	82	79	82,8	89,8	80,9	99,9	91,3								



BEZUGSDATEN

Energiebezugsfläche	m²	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096						
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.						

8. Friedhof mit Trauerhalle

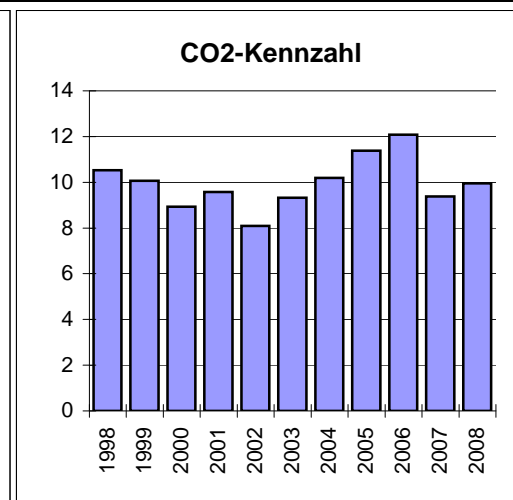
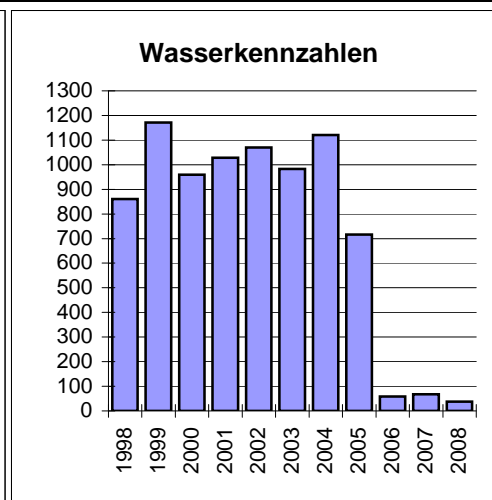
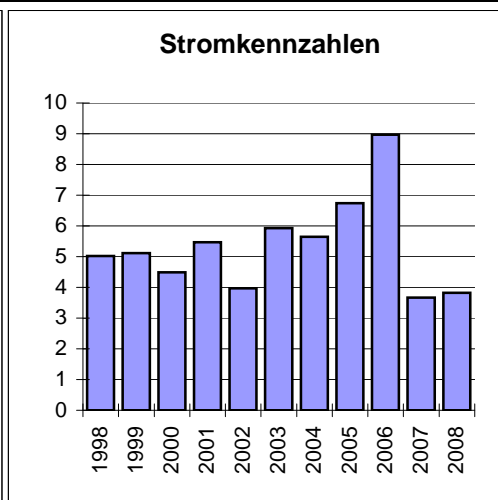
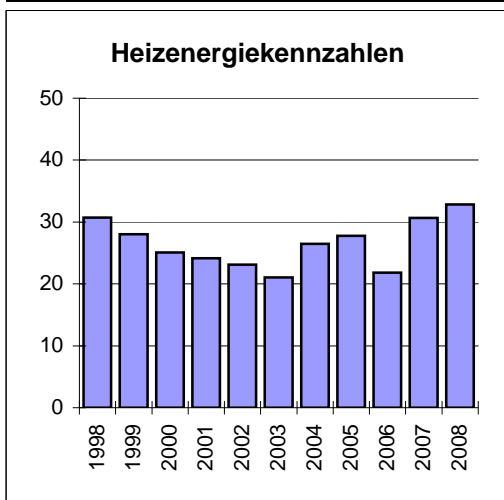
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt) Trauerhalle	MWh/a	31	28	25	24	23	21	26	28	22	31	33								
Strom	MWh/a	5	5	4	5	4	6	6	7	9	4	4								
Wasser	m³/a	861	1171	960	1028	1070	983	1121	716	59	67	38								
CO2-Emission	t/a	11	10	9	10	8	9	10	11	12	9	10								

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a																			
Stromkennzahl	kWh/m²a																			
Wasserkennzahl	l/m²																			
CO2-Kennzahl	kg/m²																			



BEZUGSDATEN

Energiebezugsfläche	m²	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.
Zahl der Nutzer	Anz.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.

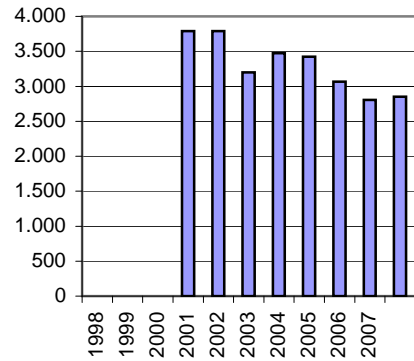
9. Gesamtübersicht

ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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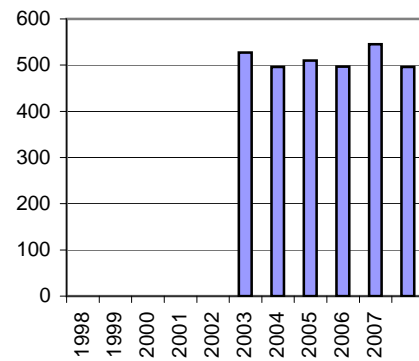
VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	k.A.	3.790	3.790	3.198	3.472	3.423	3.067	2.805	2.849								
Strom	MWh/a	k.A.	k.A.	k.A.	k.A.	k.A.	527	496	510	497	545	496								
Wasser	m³/a	k.A.	k.A.	k.A.	k.A.	10.062	10.392	10.827	9.167	9.087	9.614	9.240								
CO2-Emission	t/a	k.A.	k.A.	k.A.	k.A.	k.A.	946	951	988	926	915	887								

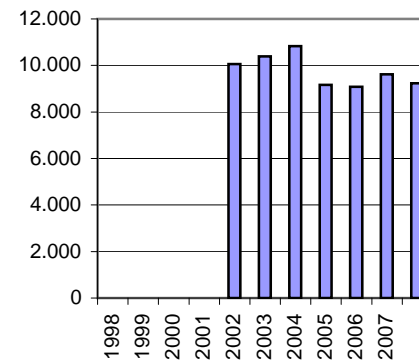
Heizenergieverbrauch



Stromverbrauch



Wasserverbrauch



CO2-Emission

