



Energiebericht 2004

**Stadt Olfen
Der Bürgermeister
Bauamt**

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1. Rathaus

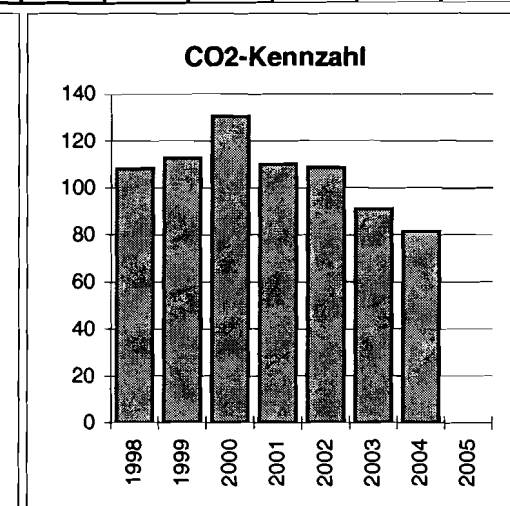
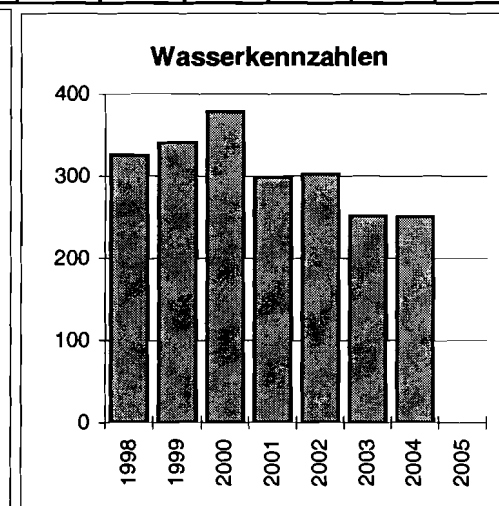
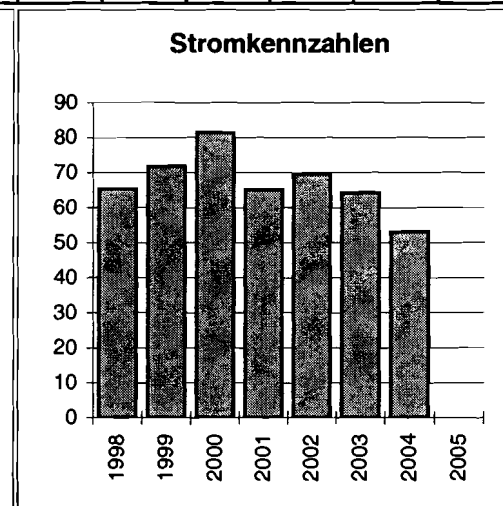
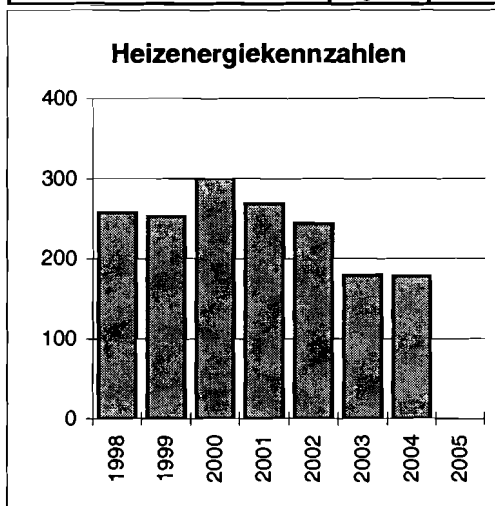
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	166	163	194	173	157	139	138												
Strom	MWh/a	42	46	52	42	45	50	41												
Wasser	m³/a	210	220	244	193	195	195	194												
CO2-Emission	t/a	70	73	84	71	70	71	63												

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	258	253	300	269	244	179	178												
Stromkennzahl	kWh/m²a	65	72	81	65	70	64	53,1												
Wasserkennzahl	l/m²	326	341	378	299	302	252	250,6												
CO2-Kennzahl	kg /m²	108	113	130	110	109	91	81,4												



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

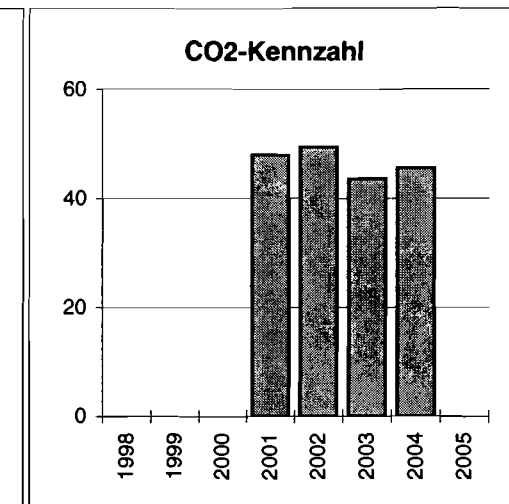
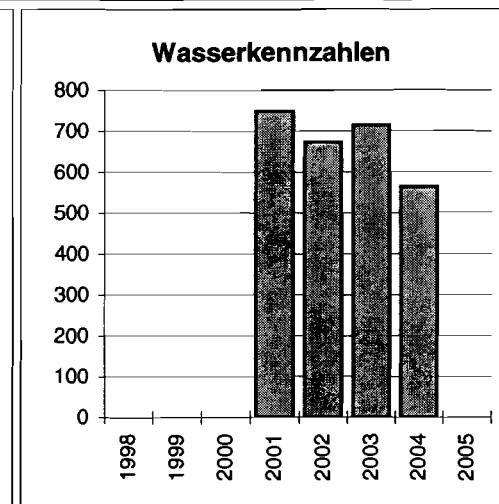
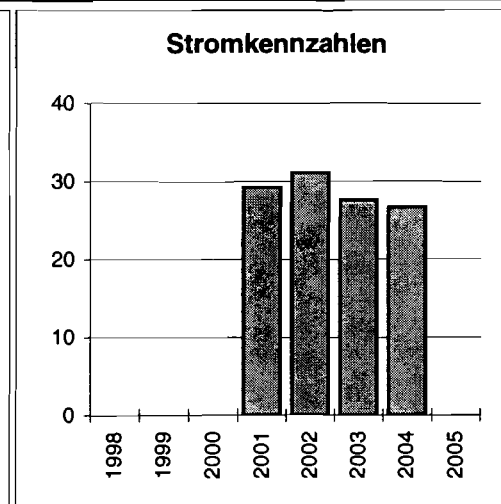
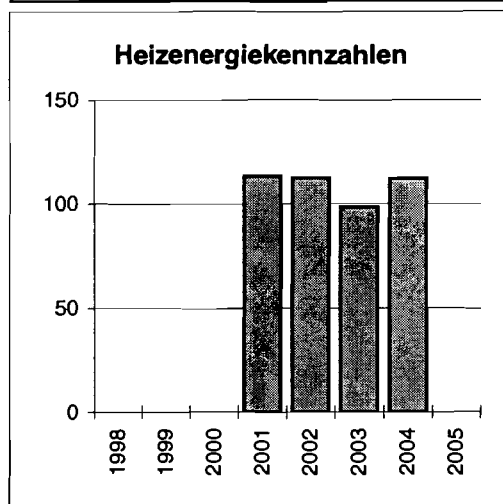
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	k.A.	94	93	82	93												
Strom	MWh/a	k.A.	k.A.	k.A.	24	26	23	22												
Wasser	m³/a	k.A.	k.A.	k.A.	622	559	594	468												
CO2-Emission	t/a	k.A.	k.A.	k.A.	40	41	36	38												

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	k.A.	113	112	98	112												
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	29	31	28	26,7												
Wasserkennzahl	l/m²	k.A.	k.A.	k.A.	749	673	715	563,4												
CO2-Kennzahl	kg /m²	k.A.	k.A.	k.A.	48	49	44	45,6												



BEZUGSDATEN

Energiebezugsfläche	m²	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

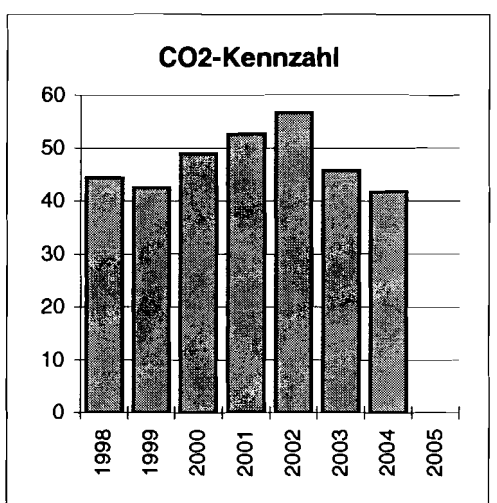
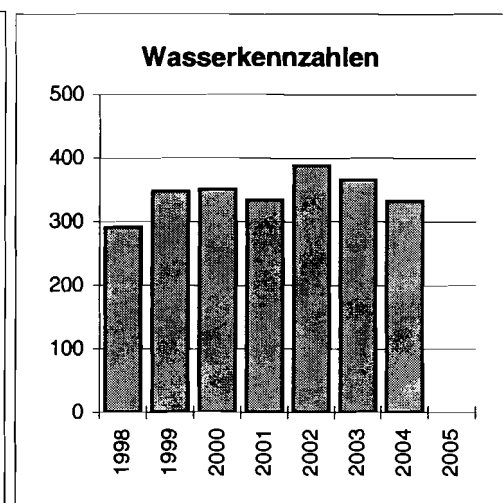
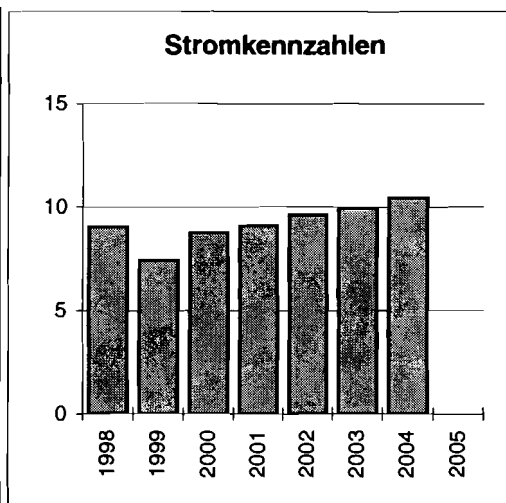
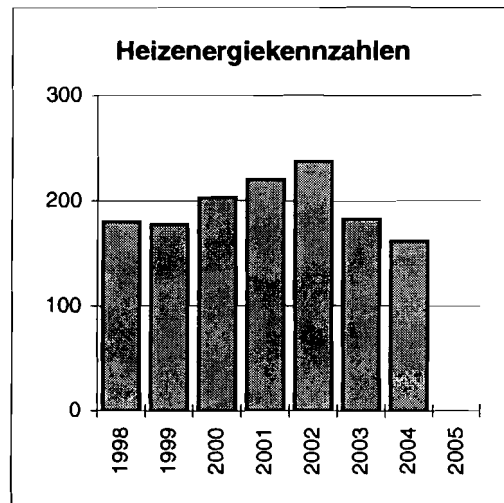
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	103	102	117	126	136	105	92												
Strom	MWh/a	5	4	5	5	6	6	6												
Wasser	m³/a	167	200	202	192	223	210	191												
CO2-Emission	t/a	25	24	28	30	33	26	24												

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	180	177	203	220	238	183	161												
Stromkennzahl	kWh/m²a	9	7	9	9	10	10	10,4												
Wasserkennzahl	l/m²	291	348	352	334	388	366	332,5												
CO2-Kennzahl	kg /m²	44	43	49	53	57	46	41,7												



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

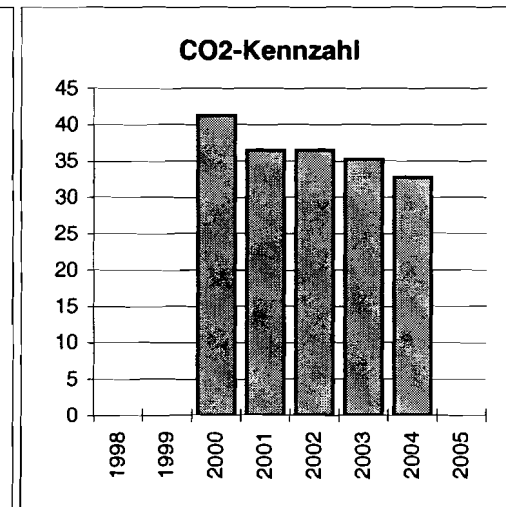
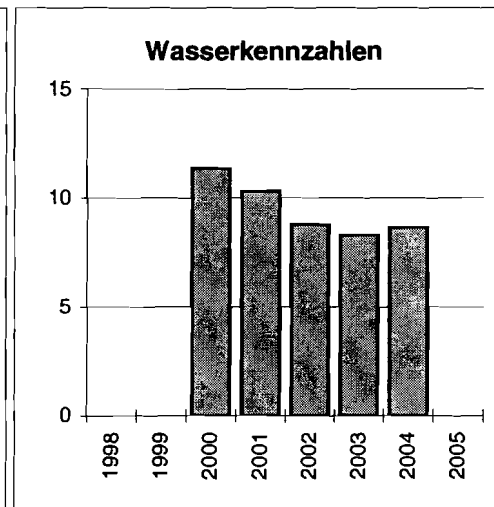
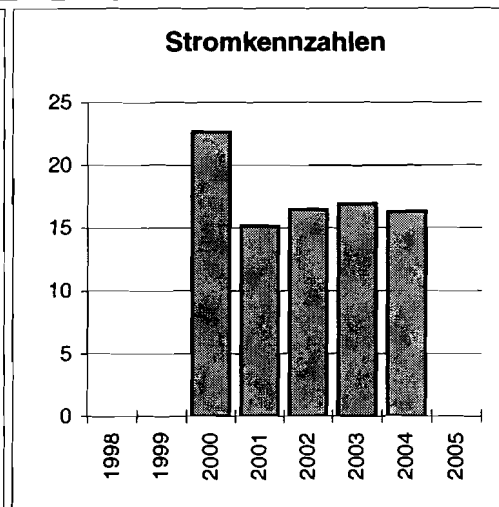
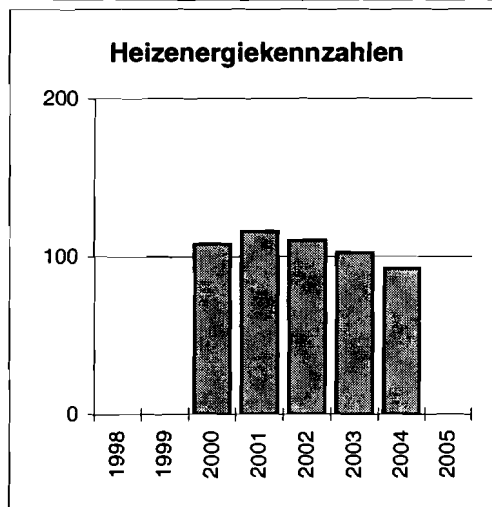
ENERGIE-Bericht	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	38	41	39	36	33												
Strom	MWh/a	k.A.	k.A.	8	5	6	6	6												
Wasser	m³/a	k.A.	k.A.	193	175	149	141	147												
CO2-Emission	t/a	k.A.	k.A.	15	13	13	12	12												

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	108	116	110	102	92												
Stromkennzahl	kWh/m²a	k.A.	k.A.	23	15	16	17	16,3												
Wasserkennzahl	l/Nut*d	k.A.	k.A.	11	10	9	8	8,6												
CO2-Kennzahl	kg /m²	k.A.	k.A.	41	36	36	35	32,7												



BEZUGSDATEN

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

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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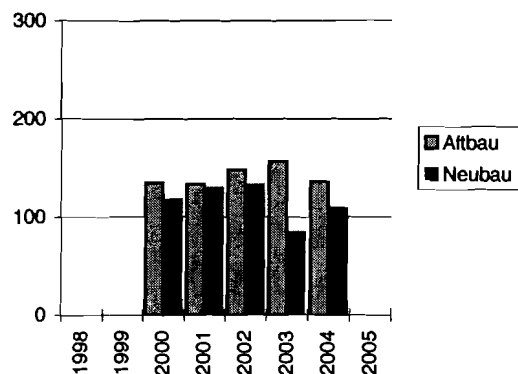
VERBRÄUCHE

Heizenergie (bereinigt)	Altbau	MWh/a	k.A.	k.A.	587	582	646	402	347											
	Neubau		k.A.	k.A.	662	729	747	626	813											
Strom		MWh/a	k.A.	k.A.	k.A.	k.A.	k.A.	133	127											
Wasser		m³/a	774	821	889	871	1029	991	835											
CO2-Emission		t/a	k.A.	k.A.	k.A.	k.A.	k.A.	323	345											

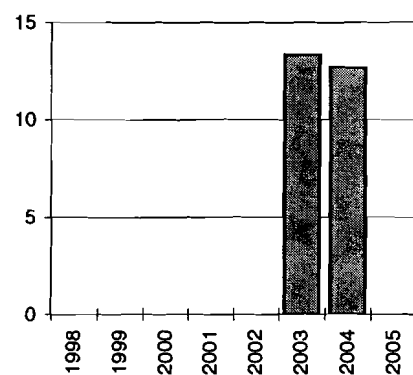
KENNZAHLEN

Heizenergie- kennzahl	Altbau	kWh/m²a	k.A.	k.A.	135	133	148	157	136											
	Neubau		k.A.	k.A.	118	130	133	84	110											
Stromkennzahl		kWh/m²a	k.A.	k.A.	k.A.	k.A.	k.A.	13	13											
Wasserkennzahl		l/Nut*d	2,7	2,8	3,0	2,9	3,4	3,3	2,8											
CO2-Kennzahl		kg/m²	k.A.	k.A.	k.A.	k.A.	k.A.	32	35											

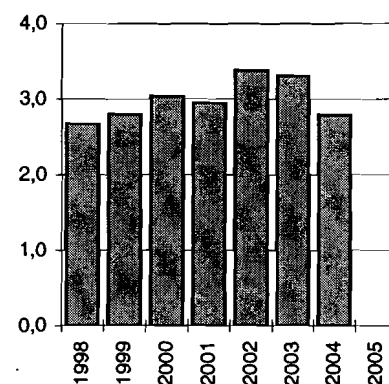
Heizenergiekennzahlen



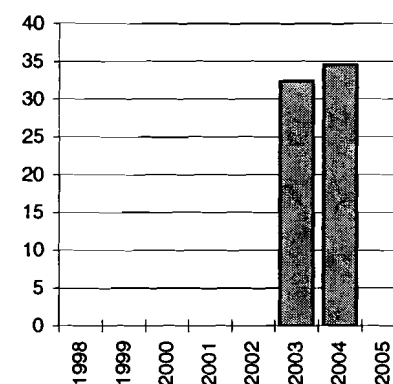
Stromkennzahlen



Wasserkennzahlen



CO2-Kennzahl



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	841	841	841	841	841	841	841						

5.2. Grundschule

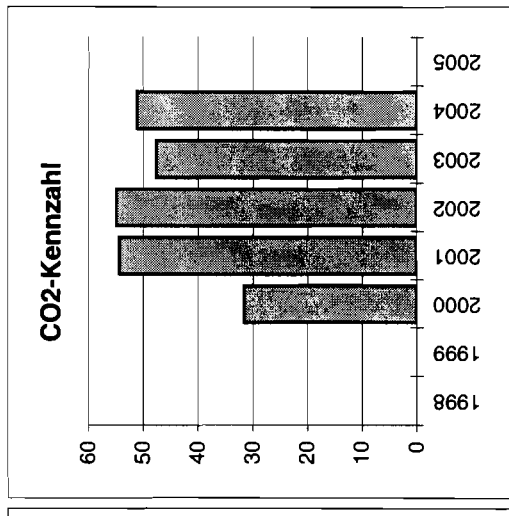
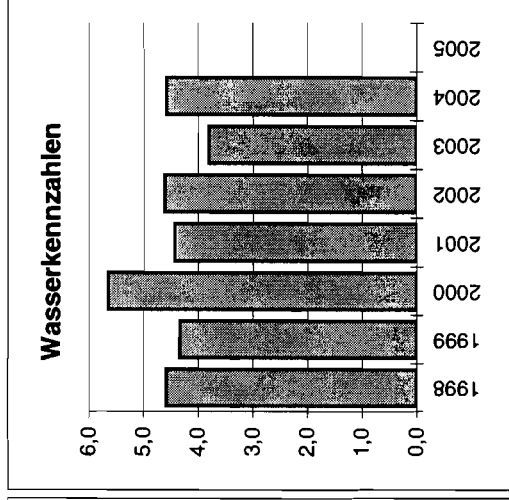
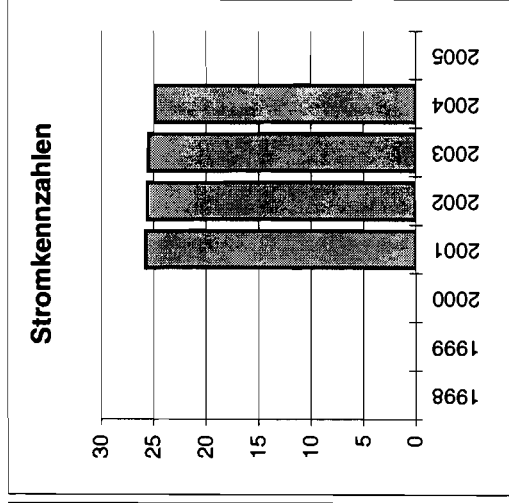
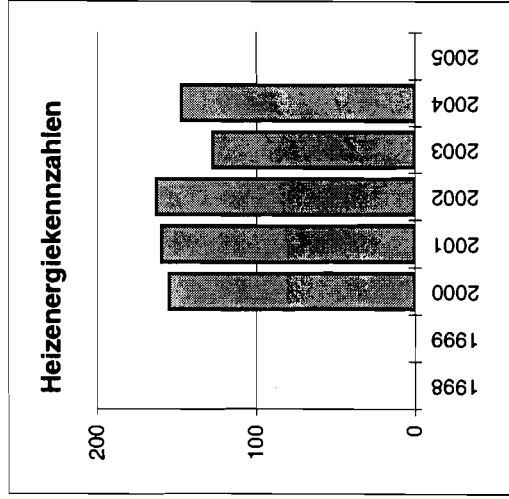
ENERGIE-Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	581	599	611	479	553												
Strom	MWh/a	k.A.	k.A.	k.A.	97	96	96	93												
Wasser	m³/a	945	928	1228	953	1016	856	1009												
CO2-Emission	t/a	k.A.	k.A.	119	204	206	179	192												

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	155	159	163	128	147												
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	26	26	26	24,9												
Wasserkennzahl	l/Nut*d	4,6	4,3	5,6	4,4	4,6	3,8	4,6												
CO2-Kennzahl	kg /m²	k.A.	k.A.	32	54	55	48	51,2												



BEZUGSDATEN

Energiebezugsfläche	m²	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754	3754
Zahl der Nutzer	Anz.	579	601	611	604	618	631	618	618	618	618	618	618	618	618	618	618	618	618	618

Stadt Offen

Stand 26.04.2006

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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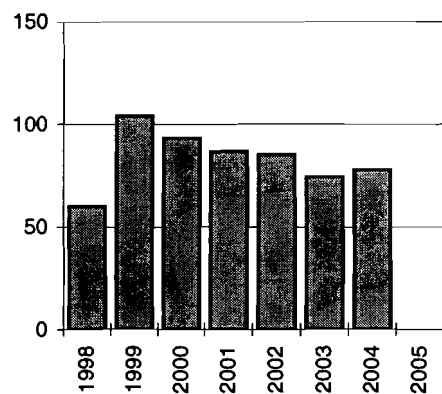
VERBRÄUCHE

Heizenergie (bereinigt) Umkleidegebäude	MWh/a	60	104	93	87	85	74	78												
Strom	MWh/a	9	9	11	9	12	12	21,5												
Wasser	m³/a	358	342	482	320	333	391	394,0												
CO2-Emission	t/a	20	29	28	26	27	25	34,2												

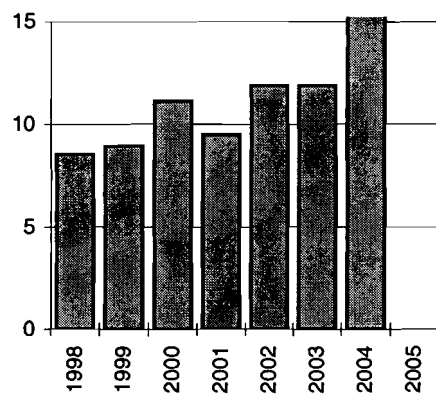
KENNZAHLEN

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

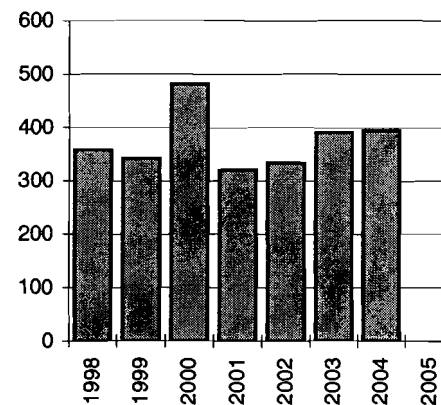
Heizenergieverbrauch



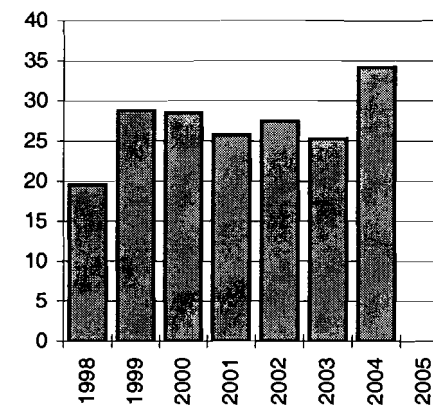
Stromverbrauch



Wasserverbrauch



CO2-Emission



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

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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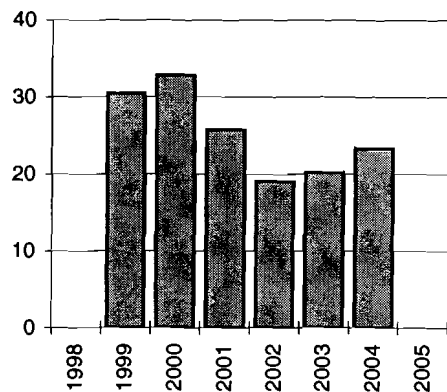
VERBRÄUCHE

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

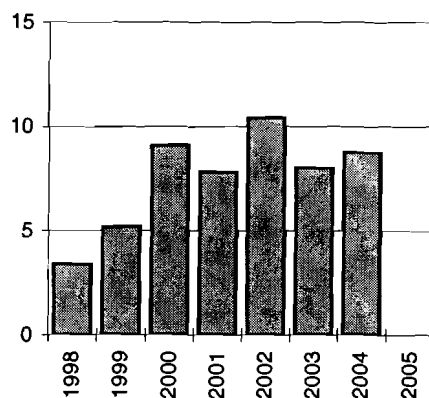
KENNZAHLEN

Heizenergiekennzahl	kWh/m²a							3												
Stromkennzahl	kWh/m²a																			
Wasserkennzahl	l/m²																			
CO2-Kennzahl	kg /m²																			

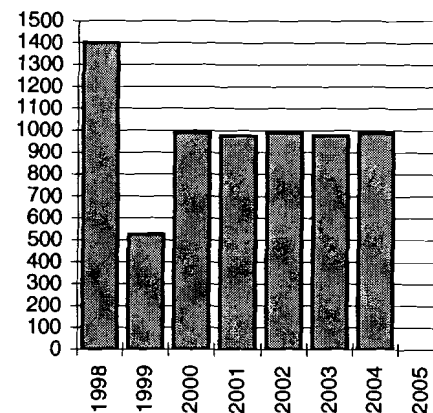
Heizenergieverbrauch



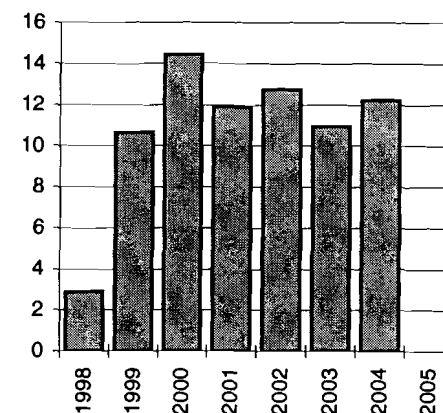
Stromverbrauch



Wasserverbrauch



CO2-Emission



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

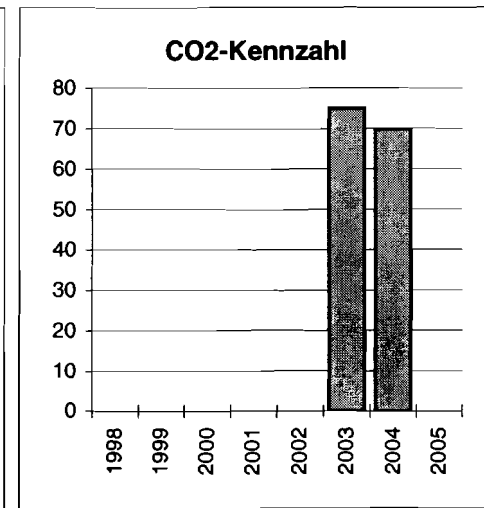
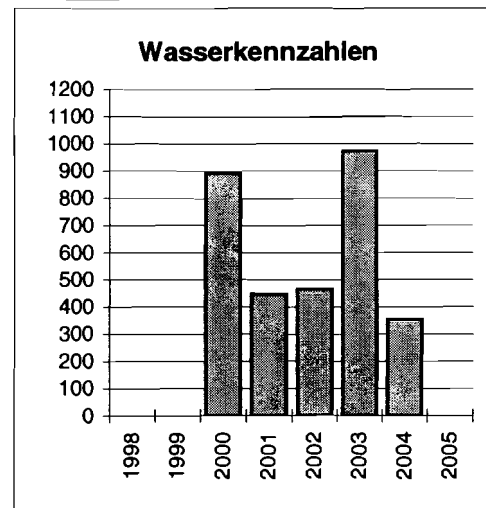
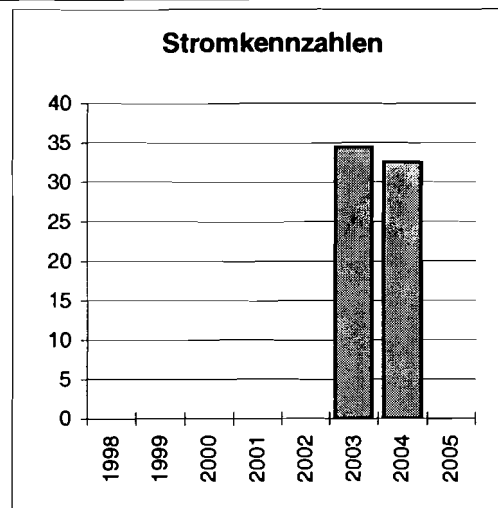
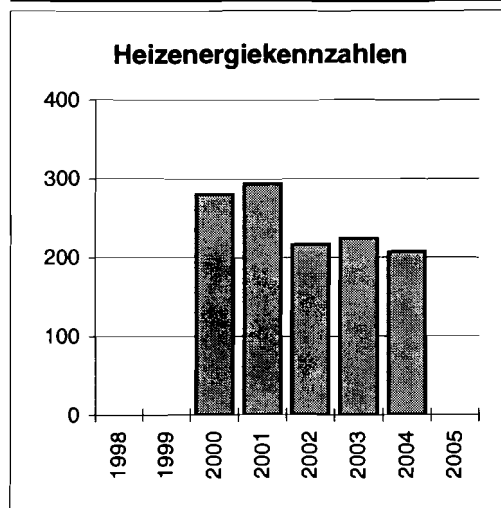
ENERGIE'Bericht'	Einheit	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	374	392	289	299	275												
Strom	MWh/a	k.A.	k.A.	k.A.	k.A.	k.A.	46	43												
Wasser	m³/a	k.A.	k.A.	1190	597	622	1297	472												
CO2-Emission	t/a	k.A.	k.A.	k.A.	k.A.	k.A.	100	93												

KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	280	293	217	224	206												
Stromkennzahl	kWh/m²a	k.A.	k.A.	k.A.	k.A.	k.A.	34,4	32,5												
Wasserkennzahl	l/m²	k.A.	k.A.	892	447	466	972	353,7												
CO2-Kennzahl	kg/m²	k.A.	k.A.	k.A.	k.A.	k.A.	75,0	69,7												



BEZUGSDATEN

Energiebezugsfläche	m²	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.							

7.2. Sporthalle und Feuerwehr Vinum

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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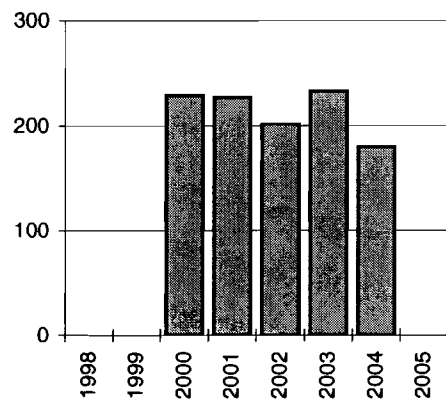
VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	151	150	133	154	119												
Strom	MWh/a	k.A.	14	13	11	13	14	15												
Wasser	m³/a	k.A.	k.A.	k.A.	202	197	211	241												
CO2-Emission	t/a	k.A.	k.A.	42	40	39	43	37												

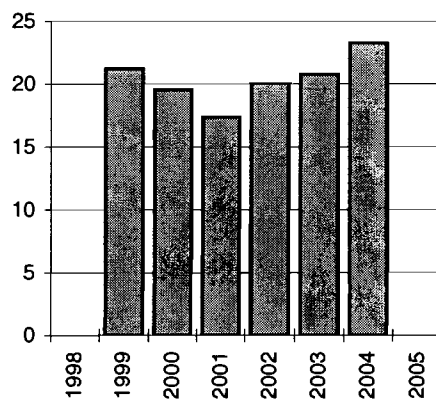
KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	228	227	202	233	180												
Stromkennzahl	kWh/m²a	k.A.	21	20	17	20	21	23,3												
Wasserkennzahl	l/m²	k.A.	k.A.	k.A.	305	298	319	364,3												
CO2-Kennzahl	kg /m²	k.A.	k.A.	63	61	58	65	56,4												

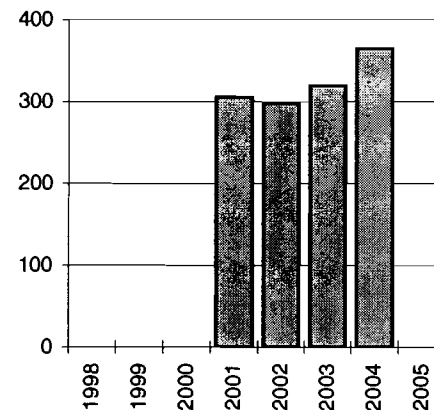
Heizenergiekennzahlen



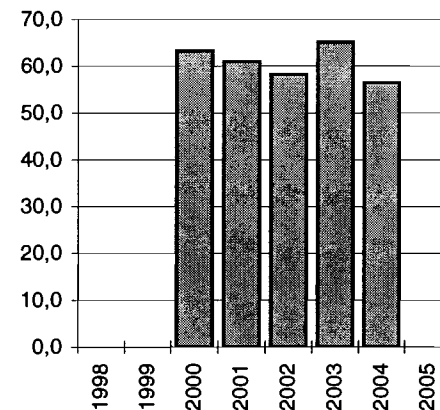
Stromkennzahlen



Wasserkennzahlen



CO2-Kennzahl



BEZUGSDATEN

Energiebezugsfläche	m²	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.							

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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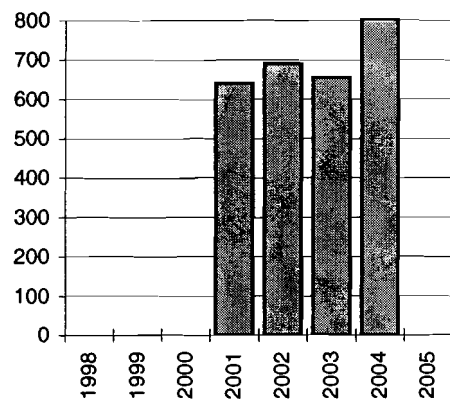
VERBRÄUCHE

Heizenergie (bereinigt)	MWh/a	k.A.	k.A.	k.A.	702	756	719	880												
Strom	MWh/a	k.A.	103	122	96	105	102	107												
Wasser	m³/a	k.A.	k.A.	4494	4046	3527	3388	4022												
CO2-Emission	t/a	k.A.	k.A.	104	81	89	86	91												

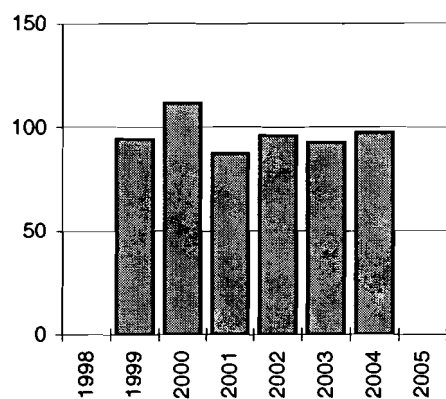
KENNZAHLEN

Heizenergiekennzahl	kWh/m²a	k.A.	k.A.	k.A.	640	690	656	803												
Stromkennzahl	kWh/m²a	k.A.	94	112	87	96	93	97,5												
Wasserkennzahl	l/m²	k.A.	k.A.	4100	3691	3218	3091	3669,1												
CO2-Kennzahl	kg /m²	k.A.	k.A.	95	74	82	79	82,8												

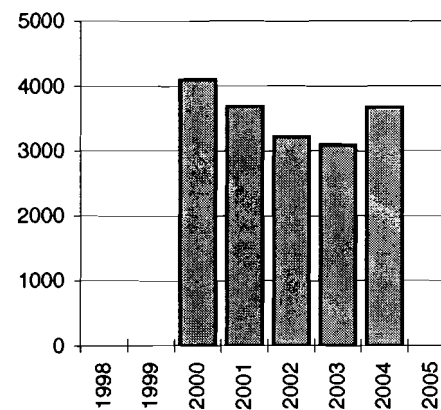
Heizenergiekennzahlen



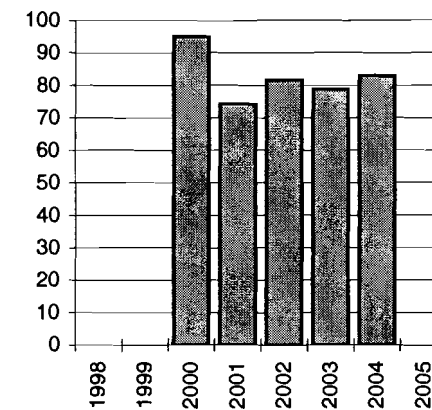
Stromkennzahlen



Wasserkennzahlen



CO2-Kennzahl



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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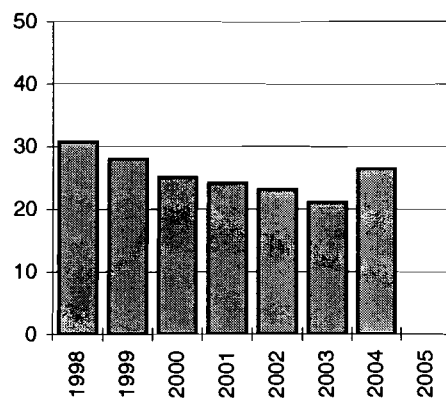
VERBRÄUCHE

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

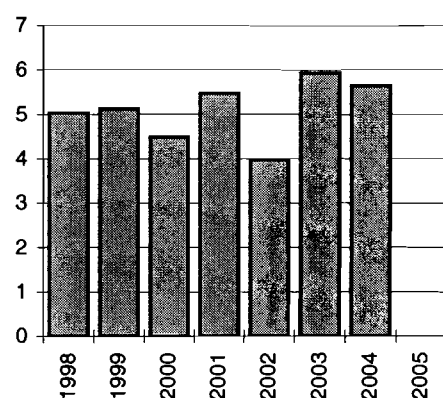
KENNZAHLEN

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

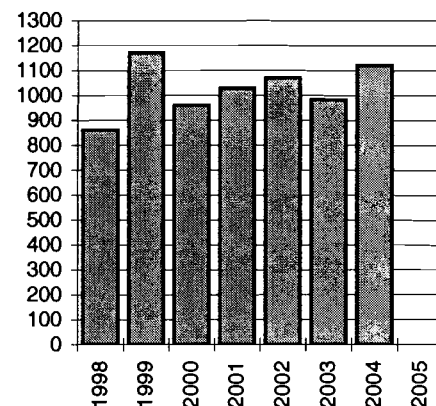
Heizenergiekennzahlen



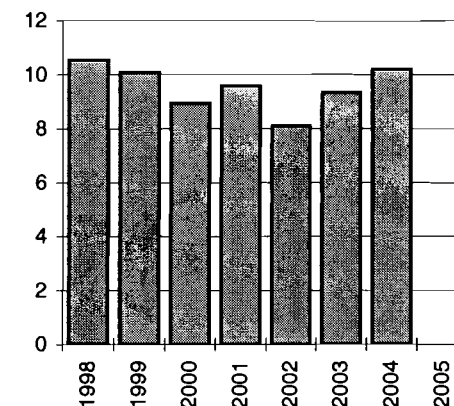
Stromkennzahlen



Wasserkennzahlen



CO2-Kennzahl



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												
Strom	MWh/a	k.A.	k.A.	k.A.	k.A.	k.A.	527	496												
Wasser	m³/a	k.A.	k.A.	k.A.	k.A.	10.062	10.392	10.827												
CO2-Emission	t/a	k.A.	k.A.	k.A.	k.A.	k.A.	946	951												

