

Datenanhang zur Arbeit:

Zur Qualität nationaler Energie- und Emissionsprojektionen

Eine quantitative und hypothesenbasierte Analyse ihrer Genauigkeit am Beispiel der US-Energienachfrage- und Emissionsprojektionen der Jahre 1983 bis 2004

Dissertation zur Erlangung des Doktorgrades der Wirtschaftswissenschaften (Dr. rer. pol.) der Universität Flensburg, Fachbereich Volkswirtschaftslehre

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A-1 Einleitung

Der vorliegende Datenanhang dokumentiert die in der Arbeit verwendeten Basisdaten und ihre Herkunft sowie ggf. erforderliche Umrechnungen. Zusätzlich werden wichtige Trendfehler angegeben.

Die grundlegenden Basisdaten sind dabei in den Einheiten der AEO's angegeben (überwiegend in Trillion BTU, 10^{12} British Thermal Unit). Die weiter verwendeten Ist- und Projektionsdaten wurden mit dem in den AEOs angegebenen Umrechnungsfaktor 1,05505585262 in Exajoule umgerechnet.

A-2 Vorhandene Datenbasis

A-2.1 Annual Energy Outlooks (AEOs)

Um eine detaillierte Fehleranalyse durchführen zu können, mussten die vollständigen Ausgaben der Annual Energy Outlooks beschafft und ausgewertet werden. Die jüngeren Outlooks, ab 1997 sind im Internet (www.eia.doe.gov) verfügbar, wobei die Daten auch als excel-Tabellen zur Verfügung stehen. Die AEOs der Jahre 1991 bis 1996 wurden von der EIA (Energy Information Administration) elektronisch als Textfiles zur Verfügung gestellt. Die AEOs der Jahre 1983 bis 1990 wurden aus der gedruckten Version entnommen.

Tabelle A 2-1 Quellen der AEOs

AEO	Quelle	Art	Form
1983	Energiewirtschaftliches Institut an der Universität Köln	Ausleihe	Papier
1984	Energy Information Administration (EIA)	Fax	Papier
1985	Energiewirtschaftliches Institut an der Universität Köln	Ausleihe	Papier
1986	Energiewirtschaftliches Institut an der Universität Köln	Ausleihe	Papier
1987	Energiewirtschaftliches Institut an der Universität Köln	Ausleihe	Papier
1988	kein AEO veröffentlicht*	-	-
1989	Energiewirtschaftliches Institut an der Universität Köln	Ausleihe	Papier
1990	EIA	Fax	Papier
1991	EIA	Mail	.txt
1992	EIA	Mail	.txt
1993	EIA	Mail	.txt
1994	EIA	Mail	.txt
1995	EIA	Mail	.txt
1996	EIA	Mail	.txt
1997	EIA	Download**	.xls
1998	EIA	Download**	.xls
1999	EIA	Download**	.xls
2000	EIA	Download**	.xls
2001	EIA	Download**	.xls
2002	EIA	Download**	.xls
2003	EIA	Download**	.xls
2004	EIA	Download**	.xls
*	auf Grund eines Wechsels im Nummerierungssystem seitens der EIA		
**	http://www.eia.doe.gov/oiaf/archive.html#aeo		

Quelle: eigene Zusammenstellung

Die Tabelle A 2-2 und A 2-3 geben eine Übersicht über die in den 21 ausgewerteten AEOs enthaltenen Projektionen und die von ihnen angegebenen Projektionsjahre sowie die jeweiligen Basisjahre.

Um eine korrekte Zuordnung der Projektionsfehler durchführen zu können, ist es wichtig, das Basisjahr einer Projektion zu identifizieren. Als Basisjahr soll hier das zum Zeitpunkt der Erstellung der Projektion letzte statistisch weitgehend verfügbare Jahr verstanden werden. Die AEOs geben typischerweise neben den Projektionszeitreihen auch noch jüngere Ist-Zeitreihen wieder. Daher wurde die Festlegung der Basisjahre jeweils der textlichen Darstellung entnommen. Die Basisjahre wurden in den betreffenden AEOs entweder direkt bei den Datenblättern aufgeführt oder gingen aus Appendix G „Major Assumptions for the Forecasts“ hervor.

Tabelle A 2-2: Basisjahre der untersuchten AEOs

AEO	Basisjahr		
	verifiziert	vermutet	verwendet
1983	1983		1983
1984		1983	1983
1985	1984		1984
1986	1985		1985
1987	1986		1986
1988	kein AEO	kein AEO	kein AEO
1989	1987		1987
1990		1988	1988
1991	1989		1989
1992		1990	1990
1993		1991	1991
1994		1992	1992
1995		1993	1993
1996		1994	1994
1997	1995		1995
1998	1996		1996
1999	1997		1997
2000	1998		1998
2001	1999		1999
2002	2000		2000
2003	2001		2001
2004	2002		2002
2005			

Quelle: eigene Zusammenstellung

Für die AEOs, für die keine Angaben verfügbar waren (1984, 1990, 1992 – 1996), wurde entschieden, die gleichen Zeit-abstände zwischen AEO-Jahr und Basisjahr zu verwenden, wie sie bei den Vor- bzw Folgejahren dieser AEOs verifiziert sind. In den AEOs vor 1988 waren dies stets zwei Jahre. Durch die Umstellung des Nummerierungs-systems und dem dadurch erklärbaren Wegfall des AEOs 1988 beträgt seit 1989 der zeitliche Abstand zwischen Titeljahr und Basisjahr zwei Jahre.

Tabelle A 2-3 Projektionszeitreihen der untersuchten AEOs

Projektion	AEOs																					
	83	84	85	86	87	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	
1983	B	B																				
1984	x	x	B																			
1985	x	x	x	B																		
1986	x	x	x	x	B																	
1987	x	x	x	x	x	B																
1988	x	x	x	x	x	x	B															
1989	x	x	x	x	x	x	x	B														
1990	x	x	x	x	x	x	x	x	B													
1991				x	x		x	x	B													
1992				x	x		x	x	x	B												
1993				x	x		x	x	x	x	B											
1994				x	x		x	x	x	x	x	B										
1995	x	x	x	x	x	x	x	x	x	x	x	x	B									
1996				x		x	x	x	x	x	x	x	x	B								
1997				x		x	x	x	x	x	x	x	x	x	B							
1998				x		x	x	x	x	x	x	x	x	x	x	B						
1999				x		x	x	x	x	x	x	x	x	x	x	x	B					
2000				x	x	x	x	x	x	x	x	x	x	x	x	x	x	B				
2001				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B			
2002							x	x	x	x	x	x	x	x	x	x	x	x	x	B		
2003							x	x	x	x	x	x	x	x	x	x	x	x	x	x	B	
2004							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B
2005							x*															

B) = BASEYEAR
* nur für Interpolation

Quelle: eigene Zusammenstellung

A-2.2 Ermittlung der CO₂-Emissionen

Für die AEOs 1993 bis 2004 standen neben den Energiedaten auch die CO₂-Emissionen der einzelnen Sektoren zum Teil in elektronischer als auch als Papierform zur Verfügung. Dagegen mussten für die AEOs 1983 bis 1992 die CO₂-Emissionen berechnet werden, indem die einzelnen Verbräuche fossiler Brennstoffe mit den in Tabelle A 2-4 enthaltenen Emissionsfaktoren (aus dem Basisjahr des AEOs) multipliziert wurden. Hierbei handelt es sich um die von der EIA verwendeten Emissionsfaktoren aus den amerikanischen Emissionsinventaren und deren Bericht „Emissions of GHG in the U.S. 1987-1992“.

Weil die AEOs der Jahre 1983 und 1984 als Basisjahr 1983 haben, für dieses Jahr aber keine Emissionsfaktoren verfügbar waren, wurden für diese beiden Jahre die Emissionsfaktoren des Jahres 1984 verwendet.

Tabelle A 2-4: Verwendete Emissionsfaktoren der Jahre 1985 bis 1992 für Brennstoffe (10⁶ t C/10¹⁵ Btu)

Fuel	AEO Base Year	1985	1986	1987	1989	1990	1991	1992
		1984	1985	1986	1987	1988	1989	1990
Petroleum	Motor Gasoline	19,37	19,37	19,38	19,38	19,39	19,41	19,41
	LPG	16,97	16,98	17,03	17,05	17,04	17,07	17,00
	Jet Fuel	19,44	19,43	19,42	19,42	19,42	19,41	19,40
	Distillate Fuel	19,95	19,95	19,95	19,95	19,95	19,95	19,95
	Residual Fuel	21,49	21,49	21,49	21,49	21,49	21,49	21,49
	Petrochemical Feedstocks	19,37	19,37	19,37	19,37	19,37	19,37	19,37
	Kerosene	19,72	19,72	19,72	19,72	19,72	19,72	19,72
	Other Petroleum	20,00	20,19	20,03	20,06	20,04	19,93	19,99
Coal	Metallurgical=Industrial Coking	25,43	25,43	25,41	25,39	25,4	25,4	25,51
	Steam=Other Industrial	25,51	25,53	25,55	25,53	25,53	25,56	25,58
	Residential/Commercial	25,92	25,89	25,88	25,9	25,87	25,94	25,92
	Net Coke Import=Metallurg.	25,43	25,43	25,41	25,39	25,4	25,4	25,51
Gas	Natural Gas	14,47	14,47	14,47	14,47	14,47	14,47	14,47

Quelle: EIA, Emissions of GHG in the U.S. 1987-1992, DOE/EIA-0573 (94), Appendix A of the Report

Tabelle A 2-5: Verwendete Emissionsfaktoren des Jahres 2002 für Brennstoffe (10^6 t C/ 10^{15} Btu)

Fuel	AEO Base Year	2004 2002
Petroleum	Motor Gasoline	19,34
	Aviation Gasoline	18,87
	LPG	16,99
	Jet Fuel	19,33
	Distillate Fuel	19,95
	Residual Fuel	21,49
	Petrochemical Feedstocks	19,37
Coal	Kerosene	19,72
	Metallurgical=Industrial Coking	25,63
	Steam=Other Industrial	25,74
	Electric Utility	25,98
	Residential/Commercial	26,04
Gas	Net Coke Import=Metallurg.	25,63
	Natural Gas	14,47

Quelle: EIA, Emissions of GHG in the U.S. 2002,
DOE/EIA-0573 (2002), Appendix A of the Report

A-2.3 Annual Energy Review (AER)

Die zur Fehlerberechnung verwendete Datenbasis der historischen Ist-Daten wurde aus der „Annual Energy Review 2003“ und der „Monthly Energy Review May 2005“ (MER) für die Jahre 2003 und 2004 zusammengestellt. Allgemein wird in den AERs stets eine Zeitreihe zurückliegender Jahre um das letzte überprüfte und revidierte Jahr erweitert, so dass mit der aktuellsten Version alle notwendigen Vergleichsjahre zur Fehlerberechnung der Projektionen der AEOs 1983-2004 verwendet werden konnten. Beide Publikationen sind in Form von Excel-Dateien als Download auf der Homepage der EIA verfügbar, es erfolgte lediglich die Löschung nicht benötigter Daten, die Behebung fehlerhafter Werte die z.T. durch Kompatibilitätsprobleme zwischen amerikanischen und europäischen Excel-Dateiformaten entstanden anhand der pdf-Versionen und die Umrechnung der Werte von „Trillion Btu“ in „Quadrillion Btu“ (amerikanisch) sowie im folgenden auf Exajoule.

Der jüngste verfügbare AER 2003 deckt nahezu alle erforderlichen historischen Informationen (GDP, Energieeinsatz nach Sektoren und Energieträgern, CO₂-Emissionen ab 1990) für die Jahre bis einschließlich 2002 ab. Für die Jahre 2003 und 2004 wurden die historischen Werte dagegen den aktuellsten MERs entnommen. Hier fehlen allerdings Angaben zu den CO₂-Emissionen; sie wurden für die fehlenden Jahre (1983 bis 1989 sowie 2003 und 2004) errechnet.

Tabelle A 2-6: Endenergieeinsätze der Haushalte, verwendete Basisdaten (in Trillion Btu)

Year	Fossil Fuels			Renewable Energy			Total Primary	Electricity Retail Sales	Electrical System Energy Losses	TOTAL
	Coal	Natural Gas	Petroleum	Wood	Geothermal	Solar				
1983	30,79	4516,40	1362,20	925,00	NA	NA	6834,39	2562,24	6062,79	15459,41
1984	39,63	4692,13	1337,13	923,00	NA	NA	6991,89	2661,67	6123,08	15776,64
1985	38,76	4570,81	1483,41	899,00	NA	NA	6991,98	2708,90	6227,30	15928,18
1986	40,47	4439,07	1456,68	876,00	NA	NA	6812,22	2794,73	6319,86	15926,80
1987	37,22	4448,59	1508,48	852,00	NA	NA	6846,29	2901,60	6485,31	16233,19
1988	36,97	4764,61	1562,82	895,00	NA	NA	7249,41	3046,46	6773,61	17069,48
1989	30,63	4928,84	1560,00	918,00	5,00	52,68	7495,15	3089,65	7189,08	17773,88
1990	31,11	4523,06	1263,12	581,00	6,00	55,90	642,40	3152,75	7287,11	16899,55
1991	25,36	4696,88	1292,68	613,00	6,00	57,77	6691,59	3259,88	7463,03	17414,50
1992	25,59	4835,46	1310,79	645,00	6,00	59,75	711,15	3193,42	7263,03	17339,44
1993	25,75	5095,23	1384,88	548,00	7,00	61,69	7122,35	3394,19	7732,56	18249,09
1994	20,85	4988,29	1332,97	537,00	6,00	63,53	6948,83	3440,94	7745,57	18135,34
1995	17,45	4981,28	1356,31	596,00	7,00	64,73	7022,38	3557,02	8073,11	18652,50
1996	16,58	5382,93	1488,59	595,00	7,00	65,44	7555,55	3693,53	8393,50	19642,58
1997	15,99	5118,33	1448,00	433,00	8,00	65,02	7087,84	3670,90	8308,20	19066,94
1998	11,55	4669,45	1321,78	387,14	8,00	64,66	459,50	3855,93	8733,32	19051,52
1999	13,98	4857,99	1452,11	413,87	9,00	63,73	486,10	3906,48	8917,15	19633,81
2000	11,36	5126,08	1505,79	433,35	9,00	61,36	503,30	4068,63	9238,09	20453,24
2001	11,97	4919,25	1538,63	370,00	9,00	59,75	439,20	4103,43	9222,72	20235,21
2002	11,23	5030,59	1516,42	313,00	10,20	58,72	381,92	4322,87	9667,24	20930,26
2003	10,36	5245,78	1547,76	359,00	16,96	58,15	434,11	4345,14	9627,38	21210,52
2004	10,69	5031,82	1618,69	332,34	17,85	57,44	407,63	4413,25	9710,16	21192,24

Quelle:
Energy Information Administration,
Monthly Energy Review April 2005, Table 2.2. Residential Energy Consumption, DOE/EIA-0035(2005/4) (Washington, DC, May 2005).
NA = Not Available

Tabelle A 2-7: Endenergieeinsätze des GHD-Sektors, verwendete Basisdaten (in Trillion Btu)

Year	Fossil Fuels			Renewable Energy			Total Primary	Electricity Retail Sales	Electrical System Energy Losses	TOTAL
	Coal	Natural Gas	Petroleum	Wood	Geothermal	Hydropower				
1983	161,62	2507,96	1135,68	22,00	NA	NA	3827,25	2116,44	5007,94	10951,63
1984	168,94	2599,97	1198,13	22,00	NA	NA	3989,03	2764,48	5209,34	11462,85
1985	137,41	2507,79	1038,98	24,00	NA	NA	3708,18	2351,28	5405,19	11464,85
1986	135,48	2385,57	1098,59	27,00	NA	NA	3646,63	2438,63	5514,59	11599,85
1987	124,60	2505,40	1078,98	29,00	NA	NA	3737,97	2538,76	5674,32	11951,05
1988	131,09	2747,91	1036,77	32,00	NA	NA	3947,77	2675,11	5947,93	12570,81
1989	115,23	2801,98	973,31	57,96	3,00	0,69	3951,65	2766,64	6437,49	13155,78
1990	124,46	2701,40	913,21	66,91	3,00	1,43	3810,22	2860,15	6610,81	13281,18
1991	115,51	2813,17	859,02	67,54	3,00	1,37	3859,60	2918,09	6680,54	13458,24
1992	116,57	2889,64	810,64	76,46	3,00	1,27	3897,77	2900,22	6596,18	13394,17
1993	117,30	2941,69	749,52	79,25	3,00	1,03	3882,20	3018,76	6877,24	13788,20
1994	118,12	2978,97	747,19	80,63	4,00	0,96	3930,06	3115,52	7013,04	14058,61
1995	116,79	3112,92	710,31	86,30	5,00	1,00	4032,03	3252,04	7380,92	14664,99
1996	121,61	3243,52	742,55	103,46	5,00	1,00	4217,73	3343,97	7599,12	15160,82
1997	129,39	3301,71	703,52	108,50	6,00	1,23	4248,05	3502,85	7927,85	15678,75
1998	93,44	3098,47	653,42	102,30	7,00	1,23	3955,96	3677,99	8330,30	15964,24
1999	102,52	3129,91	637,48	106,22	7,00	1,17	3984,01	3766,24	8597,03	16347,27
2000	91,90	3265,21	725,58	100,41	8,00	1,02	4191,72	3955,69	8981,66	17129,07
2001	96,86	3116,42	741,77	79,71	8,00	0,68	4043,70	4085,62	9182,68	17312,00
2002	90,84	3235,35	737,68	83,85	8,75	0,13	4156,61	4156,60	9295,41	17608,61
2003	83,85	3322,81	757,53	87,24	14,48	0,74	4266,65	4093,44	9069,70	17429,79
2004	86,51	3093,32	789,15	89,36	15,24	1,05	4074,62	4191,66	9222,62	17488,90

Quelle:
Energy Information Administration,
Monthly Energy Review April 2005, Table 2.3: Commercial Energy Consumption, DOE/EIA-0035(2005/4) (Washington, DC, May 2005).
NA = Not Available

Tabelle A 2-8: Endenergieeinsätze der Industrie, verwendete Basisdaten (in Trillion Btu)

Year	Fossil Fuels			Renewable Energy			Total Primary	Electricity Retail Sales	Electrical System Energy Losses	TOTAL
	Coal	Natural Gas	Petroleum	Wood	Geothermal	Hydropower				
1983	2489,56	6826,21	7419,52	16719,66	1845,29	NA	33,26	1878,54	6265,04	27510,95
1984	2842,17	7447,64	8013,77	18292,10	1882,57	NA	33,00	1915,57	6576,33	29642,70
1985	2759,93	7080,22	7805,30	17631,96	1874,64	NA	33,02	1907,66	6563,30	28957,99
1986	2640,50	6690,13	7920,15	17234,02	1865,70	NA	33,02	1898,72	6408,14	28374,66
1987	2672,91	7322,87	8150,93	18155,35	1857,77	NA	32,94	1890,71	6544,96	29519,30
1988	2827,56	7696,16	8429,81	18993,08	1932,71	NA	32,64	1895,34	6801,16	30818,44
1989	2787,00	8130,62	8126,28	19074,30	1783,97	2,00	28,40	1814,17	7348,92	31395,73
1990	2756,01	8502,45	8305,18	19588,41	1634,23	2,00	30,95	1667,08	7456,69	31918,30
1991	2600,84	8619,40	8047,04	19276,97	1594,52	2,00	29,68	1626,30	7394,02	31527,03
1992	2514,82	8967,35	8616,44	20133,23	1639,74	2,00	30,51	1672,44	7548,41	32672,99
1993	2496,29	9120,09	8398,48	20041,96	1664,33	2,00	29,59	1696,32	7595,62	32667,98
1994	2509,69	9171,75	8791,95	20531,72	1778,98	3,00	62,19	1843,96	7741,73	33556,64
1995	2488,27	9637,42	8551,68	20738,42	1847,10	3,00	54,70	1904,80	7842,28	33940,81
1996	2434,39	9947,01	8989,06	21393,28	1907,05	3,00	60,77	1970,72	8014,49	34905,24
1997	2395,06	9976,25	9214,40	21632,15	1914,63	3,00	58,06	1975,79	8017,20	35167,48
1998	2335,26	9806,36	9016,82	21225,54	1783,79	3,00	54,54	1841,33	8123,55	34777,12
1999	2226,78	9414,78	9283,81	20983,07	1790,56	4,00	48,66	1843,32	8241,84	34678,86
2000	2256,50	9534,81	9055,31	20911,98	1781,04	4,00	42,18	1827,62	8244,85	34615,63
2001	2191,64	8725,12	9220,07	20166,08	1592,89	4,76	32,50	1630,15	7414,86	32501,02
2002	2019,36	8870,25	9261,96	20212,32	1564,56	4,79	38,91	1608,25	7420,29	32557,90
2003	2041,41	8534,34	9402,14	20028,40	1532,94	4,55	43,24	1580,73	7620,25	32668,64
2004	2025,32	8665,46	9795,83	20624,37	1619,82	4,79	50,90	1675,50	7663,96	33447,08

Quelle:
Energy Information Administration,
Monthly Energy Review April 2005, Table 2.4. Industrial Energy Consumption, DOE/EIA-0035(2005/4) (Washington, DC, May 2005).
NA = Not Available

Tabelle A 2-9: Endenergieeinsätze des Verkehrssektors, verwendete Basisdaten (in Trillion Btu)

Year	Fossil Fuels			Alcohol Fuels	Total Primary	Electricity Retail Sales	Electrical System Energy Losses	TOTAL
	Coal*	Natural Gas	Petroleum					
1983	0,00	505,23	18592,83	35,00	19133,07	12,68	29,99	19175,73
1984	0,00	544,62	19216,18	43,00	19803,80	14,29	32,88	19850,97
1985	0,00	519,38	19503,99	52,00	20075,38	14,15	32,52	20122,05
1986	0,00	499,11	20268,82	60,00	20827,93	15,06	34,05	20877,04
1987	0,00	535,26	20869,81	69,00	21474,07	15,57	34,79	21524,43
1988	0,00	631,72	21629,16	70,00	22330,88	15,93	35,42	22382,23
1989	0,00	648,82	21848,44	71,00	22568,25	16,28	37,87	22622,40
1990	0,00	679,89	21792,26	63,00	22535,15	16,21	37,47	22588,83
1991	0,00	620,32	21448,35	73,00	22141,68	16,24	37,17	22195,08
1992	0,00	608,11	21798,01	83,00	22489,12	16,06	36,52	22541,69
1993	0,00	644,73	22184,80	96,99	22829,53	16,28	37,09	22882,89
1994	0,00	708,54	22739,39	108,61	23447,93	17,00	38,36	23503,33
1995	0,00	723,95	23180,58	116,50	23904,54	16,97	38,52	23960,03
1996	0,00	736,89	23719,29	83,56	24456,18	16,80	38,17	24511,14
1997	0,00	780,31	23972,93	105,81	24753,24	16,74	37,90	24807,88
1998	0,00	666,10	24635,29	116,92	25301,38	16,93	38,34	25356,65
1999	0,00	675,34	25374,89	121,57	26050,23	17,49	39,93	26107,64
2000	0,00	671,99	25972,62	139,32	26644,62	18,36	41,69	26704,67
2001	0,00	659,33	25556,14	147,10	26215,46	18,71	42,06	26276,23
2002	0,00	701,64	25923,98	173,97	26625,62	17,63	39,41	26682,66
2003	0,00	705,87	26134,89	239,14	26840,76	23,88	52,91	26917,56
2004	0,00	705,02	26731,86	295,57	27436,87	26,19	57,61	27520,67

Quelle:

Energy Information Administration,

Monthly Energy Review April 2005, Table 2.5. Transportation Energy Consumption, DOE/EIA-0035(2005/4) (Washington, DC, May 2005).

NA = Not Available

* Since 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption

A-3 Daten Haushaltssektor

A-3.1 Daten der AEOs 83 bis 04

Tabelle A 3-1: Brennstoffeinsatz im Haushaltssektor, historische Entwicklung von 1983 bis 2004 und Projektionen

	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
Residential Sector Fuel Consumption (Final Energy) – Actual and Projected Values (83 - 04)																							
EJ																							
1981																							
1982																							
1983	6.23	6.49	6.51	6.64	6.51																		
1984	6.40	6.60	6.69	6.54	6.51																		
1985	6.43	6.63	6.65	6.54	6.51	6.34																	
1986	6.26	6.66	6.68	6.67	6.36	6.38																	
1987	6.32	6.66	6.73	6.77	6.46	6.58																	
1988	6.71	6.65	6.76	6.87	6.59	6.76	6.79																
1989	6.88	6.88	6.62	6.76	6.69	6.69	6.95																
1990	6.14	6.52	6.75	6.97	6.74	6.93	6.83	6.50	6.45	6.17	6.16	6.16	6.36	6.40	6.36								
1991	6.35						6.81	6.07	6.87	6.56	6.52												
1992	6.51						6.76	6.97	7.00	6.76	6.87												
1993	6.86						6.72	6.90	6.96	6.81	7.09												
1994	6.69						6.49	6.54	6.72	6.83	6.92	6.77	6.92	6.71	6.73								
1995	6.70	5.99	6.46	6.91	6.65	6.54	6.37	6.65	6.74	6.82	6.75	6.91	6.93	6.92	6.71	6.73							
1996	7.27						6.32	6.59	6.67	6.72	6.74	6.88	6.92	7.00	6.87	7.04							
1997	6.94						6.28	6.57	6.58	6.57	6.73	6.85	6.91	7.06	7.06	7.06	6.54	6.35					
1998	6.33						6.19	6.53	6.51	6.47	6.71	6.81	6.92	7.06	7.11	7.01	6.74	6.66	6.70				
1999	6.67						6.20	6.48	6.45	6.35	6.72	6.77	6.93	7.08	7.15	7.02	6.83	6.81	6.99				
2000	7.01						6.16	6.45	6.37	6.29	6.71	6.72	6.92	7.07	7.14	6.99	6.84	7.06	7.00	6.81	6.79		
2001	6.83							6.41	6.32	6.21	6.69	6.70	6.93	7.07	7.16	7.00	6.87	7.17	7.18	6.89	6.92		
2002	6.92							6.37	6.28	6.15	6.68	6.65	6.96	7.09	7.19	7.00	6.90	7.25	7.30	7.10	7.10		
2003	7.18							6.32	6.20	6.10	6.68	6.62	7.00	7.13	7.24	7.04	6.95	7.31	7.36	7.32	7.30		
2004	7.03							6.27	6.15	6.06	6.66	6.56	6.98	7.14	7.24	7.02	6.96	7.31	7.32	7.35	7.34		
2005								6.20															

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-2: Klimabereinigter Brennstoffeinsatz im Haushaltssektor, historische Entwicklung von 1983 bis 2004 und Projektionen

Weather Normalized Residential Sector Fuel Consumption (Final Energy) – Actual and Projected Values ('83 - '04)

E)

	AER/MER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																							
1982																							
1983	6.28	6.49	6.51																				
1984	6.48	6.60	6.69	6.64																			
1985	6.39	6.63	6.65	6.54	6.40	6.51																	
1986	6.47	6.66	6.68	6.67	6.30	6.36	6.34																
1987	6.59	6.66	6.73	6.77	6.46	6.38																	
1988	6.69	6.65	6.76	6.87	6.58	6.59	6.76	6.79															
1989	6.75	6.62	6.76	6.93	6.69	6.59	6.86	6.75	6.95														
1990	6.61	6.52	6.75	6.97	6.74	6.59	6.76	6.93	6.50	6.45	6.17	6.16	6.16										
1991	6.68					6.58	6.73	6.93	6.83	6.69	6.36	6.40	6.36										
1992	6.67					6.58	6.68	6.81	7.07	6.87	6.56	6.52	6.52										
1993	6.77					6.54	6.60	6.76	6.97	7.00	6.76	6.87	6.87										
1994	6.76					6.51	6.54	6.72	6.90	6.96	6.81	7.09	6.92	6.79									
1995	6.73	5.99	6.46	6.91	6.65	6.45	6.49	6.54	6.69	6.83	6.92	6.77	6.92	6.71	6.73								
1996	7.17					6.37	6.37	6.37	6.65	6.74	6.82	6.75	6.91	6.93	6.71	6.73							
1997	7.01					6.32	6.32	6.32	6.59	6.67	6.72	6.74	6.88	6.92	6.71	6.72	7.26						
1998	6.94					6.28	6.28	6.28	6.57	6.58	6.57	6.73	6.85	6.91	6.87	7.06	7.04	6.97					
1999	7.05					6.19	6.19	6.19	6.53	6.51	6.47	6.71	6.81	6.92	7.00	7.06	7.06	6.35	6.35				
2000	7.15					6.16	6.16	6.16	6.48	6.45	6.35	6.72	6.81	6.92	7.08	7.11	7.01	6.74	6.66	6.70			
2001	7.23								6.45	6.37	6.29	6.71	6.72	6.92	7.07	7.15	7.02	6.83	6.81	6.93	6.99		6.79
2002	7.14								6.41	6.32	6.21	6.69	6.70	6.93	7.07	7.16	7.00	6.87	7.06	7.00	6.81	6.81	6.92
2003	7.21								6.37	6.28	6.15	6.68	6.65	6.96	7.09	7.19	7.00	6.90	7.25	7.30	6.89	6.89	6.92
2004	7.29								6.32	6.20	6.10	6.68	6.62	6.96	7.09	7.24	7.04	6.95	7.31	7.36	7.23	7.10	7.30
2005								6.20	6.27	6.15	6.06	6.66	6.56	6.98	7.14	7.24	7.02	6.96	7.31	7.32	7.35	7.34	7.34

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-3: Stromeinsatz im Haushaltssektor, historische Entwicklung von 1983 bis 2004 und Projektionen

Residential Sector Electricity Consumption (Final Energy) – Actual and Projected Values ('83 - '04)		Residential Sector Electricity Consumption (Final Energy)																							
E)		AER/MER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																									
1982																									
1983	2.70	2.70	2.70	2.70																					
1984	2.81	2.73	2.75	2.80																					
1985	2.86	2.80	2.83	2.81	2.85	2.85																			
1986	2.95	2.87	2.88	2.95	2.91	2.94	2.94																		
1987	3.06	2.94	2.94	3.03	2.98	3.11	3.06	2.94																	
1988	3.21	3.02	3.01	3.10	3.07	3.20	3.18	3.22																	
1989	3.26	3.10	3.08	3.18	3.17	3.27	3.20	3.21	3.26																
1990	3.33	3.19	3.18	3.26	3.26	3.34	3.27	3.33	3.34	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	
1991	3.44								3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	
1992	3.37								3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
1993	3.58								3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	
1994	3.63								3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
1995	3.75								3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	
1996	3.90								3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	
1997	3.87								3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	
1998	4.07								3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	
1999	4.12								3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	
2000	4.29								3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	
2001	4.33								3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	
2002	4.56								4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	4.24	
2003	4.58																								
2004	4.66																								
2005																									

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-3.2 Detaildaten der AEOs 92 bis 04

Tabelle A 3-5: EDL pro Einheit des BIP im Haushaltssektor, historische Entwicklung, Projektionen und Trendfehler

EDL HH/BIP														
Households per Million \$ GDP														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	15.47													
1984	14.67													
1985	14.34													
1986	14.12													
1987	13.82													
1988	13.51													
1989	13.30													
1990	13.12	13.94												
1991	13.28	14.07	13.99											
1992	13.04	13.70	13.78	13.82										
1993	12.80	13.37	13.33	13.52	13.28									
1994	12.39	13.07	12.96	13.17	12.91	13.11								
1995	12.32	12.73	12.60	12.93	12.67	12.92	12.58							
1996	11.96	12.39	12.23	12.65	12.45	12.76	12.40	12.34						
1997	11.61	12.02	11.85	12.33	12.09	12.44	12.25	12.04	11.91					
1998	11.31	11.56	11.36	11.95	11.73	12.08	11.93	11.77	11.68	11.66				
1999	10.97	11.14	10.96	11.60	11.40	11.78	11.61	11.55	11.58	11.39	10.98			
2000	10.67	10.78	10.64	11.31	11.16	11.54	11.38	11.39	11.44	11.37	10.55	10.65		
2001	10.82	10.45	10.31	11.07	10.94	11.31	11.21	11.25	11.34	11.29	10.31	10.66	10.79	
2002	10.73	10.06	9.92	10.75	10.62	11.03	10.99	11.04	11.13	11.13	10.05	10.51	10.67	10.99
2003	10.60	9.72	9.57	10.43	10.31	10.77	10.74	10.85	10.96	10.95	9.83	10.18	10.35	10.89
2004	10.21	9.40	9.25	10.18	10.02	10.52	10.53	10.66	10.84	10.79	9.66	9.94	10.07	10.67
2005		9.06	8.94	9.93	9.76	10.24	10.31	10.46	10.58	10.62	9.47	9.68	9.88	10.39
Steigung in %	-1.7%	-2.5%	-2.7%	-2.2%	-2.2%	-2.0%	-1.9%	-1.6%	-1.3%	-1.2%	-2.2%	-2.0%	-2.2%	-1.8%

CO2-gewichteter Trendfehler														
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991	0.7%													
1992	0.7%	0.2%												
1993	0.7%	0.0%	0.0%											
1994	0.7%	-0.1%	0.0%	-0.1%										
1995	0.6%	-0.2%	0.1%	0.0%	0.1%									
1996	0.5%	-0.4%	0.0%	0.0%	0.3%	0.1%								
1997	0.3%	-0.6%	-0.1%	-0.2%	0.2%	0.3%	-0.1%							
1998	-0.1%	-1.0%	-0.3%	-0.4%	0.0%	0.1%	-0.2%	0.0%						
1999	-0.5%	-1.4%	-0.6%	-0.6%	-0.2%	0.0%	-0.2%	0.2%	-0.1%					
2000	-0.8%	-1.6%	-0.7%	-0.7%	-0.2%	-0.1%	-0.1%	0.3%	0.2%	-0.4%				
2001	-1.1%	-1.9%	-0.8%	-0.7%	-0.3%	-0.1%	0.0%	0.4%	0.4%	-0.6%	0.4%			
2002	-1.5%	-2.4%	-1.1%	-1.0%	-0.5%	-0.2%	-0.1%	0.4%	0.5%	-0.8%	0.4%	0.1%		
2003	-1.9%	-2.8%	-1.4%	-1.3%	-0.6%	-0.3%	-0.1%	0.4%	0.5%	-0.9%	0.1%	-0.2%	0.1%	
2004	-2.3%	-3.1%	-1.6%	-1.6%	-0.8%	-0.4%	-0.2%	0.5%	0.5%	-1.0%	-0.1%	-0.5%	0.0%	

Trendfehler														
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991	3.6%													
1992	3.5%	1.0%												
1993	3.5%	0.1%	0.2%											
1994	3.5%	-0.4%	-0.1%	-0.5%										
1995	3.0%	-1.0%	0.3%	-0.2%	0.7%									
1996	2.4%	-1.9%	0.2%	0.1%	1.6%	0.7%								
1997	1.3%	-3.1%	-0.5%	-0.8%	0.9%	1.4%	-0.5%							
1998	-0.7%	-5.3%	-1.6%	-1.9%	0.0%	0.6%	-0.9%	-0.1%						
1999	-2.6%	-6.9%	-2.8%	-2.9%	-0.8%	-0.3%	-0.9%	0.9%	-0.5%					
2000	-4.0%	-8.1%	-3.5%	-3.3%	-1.1%	-0.5%	-0.5%	1.4%	1.1%	-2.2%				
2001	-5.4%	-9.5%	-4.0%	-3.6%	-1.3%	-0.3%	-0.1%	2.2%	2.1%	-2.9%	1.8%			
2002	-7.4%	-11.4%	-5.3%	-4.9%	-2.2%	-0.7%	-0.4%	2.0%	2.3%	-3.8%	2.0%	0.5%		
2003	-9.2%	-13.2%	-6.6%	-6.3%	-3.1%	-1.4%	-0.5%	2.0%	2.2%	-4.4%	0.3%	-1.1%	0.7%	
2004	-10.8%	-14.9%	-7.5%	-7.5%	-3.9%	-1.9%	-0.8%	2.3%	2.2%	-4.7%	-0.6%	-2.2%	0.1%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-6: EDL im Haushaltssektor (Zahl der Haushalte), historische Entwicklung, Projektionen und Trendfehler

EDL HH		Million households													
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		83.9													
1984		85.3													
1985		86.8													
1986		88.5													
1987		89.5													
1988		91.1													
1989		92.8													
1990		93.3	93.4												
1991		94.3	94.1	94.0											
1992		95.7	95.0	94.8	95.1										
1993		96.4	96.0	95.6	95.8	95.8									
1994		97.1	97.2	96.4	96.7	96.7	97.9								
1995		99.0	98.3	97.4	97.5	97.5	99.0	99.1							
1996		99.6	99.4	98.3	98.4	98.4	100.0	100.3	100.4						
1997		101.0	100.4	99.3	99.2	99.3	101.1	101.2	101.7	101.3					
1998		102.5	101.3	100.2	100.0	100.2	102.1	102.2	102.9	102.6	102.8				
1999		103.9	102.3	101.1	100.8	101.1	103.2	103.3	104.2	103.8	104.2	104.1			
2000		104.7	103.2	102.0	101.7	101.9	104.3	104.4	105.3	105.0	105.4	105.3	105.2		
2001		107.0	104.2	102.9	102.5	102.7	105.4	105.6	106.5	106.2	106.5	106.5	106.2	106.3	
2002		108.1	105.1	103.7	103.4	103.6	106.6	106.8	107.6	107.3	107.7	107.7	107.2	107.4	110.3
2003		110.0	106.1	104.5	104.2	104.5	107.8	108.0	108.8	108.5	108.9	109.0	108.3	108.5	111.5
2004		110.7	106.9	105.2	105.0	105.4	109.0	109.3	109.9	109.7	110.1	110.2	109.3	109.6	112.6
2005			107.8	105.9	105.9	106.2	110.2	110.5	111.1	111.0	111.3	111.4	110.4	110.8	113.7
Steigung in %	1.3%	1.1%	0.9%	0.9%	0.9%	1.1%	1.1%	1.2%	1.2%	1.2%	1.2%	1.0%	1.1%	1.0%	

CO2-gewichteter Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991		-0.1%													
1992		-0.2%	-0.1%												
1993		-0.3%	-0.2%	-0.1%											
1994		-0.3%	-0.3%	-0.2%	-0.1%										
1995		-0.3%	-0.3%	-0.3%	-0.2%	0.0%									
1996		-0.3%	-0.4%	-0.3%	-0.2%	-0.1%	0.0%								
1997		-0.4%	-0.4%	-0.4%	-0.3%	-0.1%	-0.1%	0.0%							
1998		-0.4%	-0.5%	-0.5%	-0.4%	-0.2%	-0.1%	0.0%	0.0%						
1999		-0.5%	-0.6%	-0.6%	-0.5%	-0.2%	-0.2%	0.0%	0.0%	0.0%					
2000		-0.6%	-0.7%	-0.7%	-0.5%	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%				
2001		-0.6%	-0.7%	-0.8%	-0.6%	-0.3%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
2002		-0.7%	-0.8%	-0.9%	-0.7%	-0.3%	-0.2%	-0.1%	-0.1%	0.0%	0.0%	-0.1%	0.0%		
2003		-0.8%	-0.9%	-0.9%	-0.8%	-0.3%	-0.2%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	
2004		-0.8%	-1.0%	-1.0%	-0.8%	-0.3%	-0.2%	-0.1%	-0.1%	-0.1%	0.0%	-0.2%	-0.1%	-0.1%	

Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991		-0.6%													
1992		-1.0%	-0.5%												
1993		-1.3%	-1.0%	-0.5%											
1994		-1.3%	-1.4%	-1.0%	-0.4%										
1995		-1.5%	-1.7%	-1.4%	-0.8%	-0.2%									
1996		-1.7%	-2.1%	-1.7%	-1.2%	-0.4%	-0.1%								
1997		-1.9%	-2.3%	-2.2%	-1.5%	-0.7%	-0.4%	0.0%							
1998		-2.3%	-2.6%	-2.6%	-1.9%	-0.9%	-0.6%	0.0%	0.0%						
1999		-2.5%	-3.0%	-3.0%	-2.3%	-1.1%	-0.8%	0.0%	0.1%						
2000		-2.8%	-3.3%	-3.4%	-2.6%	-1.2%	-0.9%	-0.1%	-0.1%	0.0%	-0.1%				
2001		-3.1%	-3.6%	-3.7%	-3.0%	-1.3%	-1.0%	-0.2%	-0.2%	-0.1%	-0.2%	-0.2%			
2002		-3.4%	-4.0%	-4.1%	-3.4%	-1.4%	-1.1%	-0.3%	-0.3%	-0.2%	-0.2%	-0.4%	-0.1%		
2003		-3.6%	-4.4%	-4.4%	-3.7%	-1.5%	-1.1%	-0.5%	-0.4%	-0.3%	-0.2%	-0.6%	-0.3%	-0.1%	
2004		-4.0%	-4.8%	-4.8%	-4.0%	-1.5%	-1.1%	-0.6%	-0.4%	-0.3%	-0.2%	-0.8%	-0.4%	-0.3%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-7: Brennstoffintensität bezogen auf die EDL im Haushaltssektor, historische Entwicklung, Projektionen und Trendfehler

fuel edl HH GJ/household*year		AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
		0.00													
		0.00													
1983		74.30													
1984		75.07													
1985		74.07													
1986		70.80													
1987		70.68													
1988		73.69													
1989		74.10													
1990		65.75	69.02												
1991		67.29	71.08	67.68											
1992		68.06	74.41	72.45	69.03										
1993		71.18	72.64	73.17	70.57	71.68									
1994		68.91	70.99	72.23	70.40	73.32	69.40								
1995		67.73	69.44	71.06	69.46	70.96	67.78	67.98							
1996		72.95	67.83	69.34	68.63	70.24	69.30	71.65	71.89						
1997		68.75	66.41	67.68	67.95	69.25	68.49	69.14	67.53	69.44					
1998		61.77	64.99	65.60	67.31	68.33	67.68	69.10	68.57	63.69	61.73				
1999		64.23	63.63	63.97	66.56	67.34	67.08	68.33	68.29	67.51	64.72	63.95			
2000		66.94	62.47	62.27	66.10	66.48	66.47	67.77	67.90	66.82	64.82	64.65	65.87		
2001		63.79	61.16	61.11	65.46	65.42	65.64	66.91	67.05	65.87	64.24	66.29	65.89	64.06	
2002		64.03	60.13	59.93	64.72	64.68	65.02	66.24	66.56	65.22	63.82	66.60	66.95	64.19	62.73
2003		65.24	59.17	58.86	64.09	63.62	64.61	65.64	66.10	64.53	63.37	66.57	67.43	66.63	63.73
2004		63.46	58.03	57.97	63.58	62.79	64.19	65.27	65.84	64.13	63.11	66.33	67.29	66.79	64.82
2005			57.06	57.19	62.86	61.77	63.37	64.62	65.14	63.29	62.49	65.62	66.34	66.34	64.55
Steigung in %		-0.6%	-1.6%	-1.7%	-0.9%	-1.3%	-0.8%	-0.8%	-0.8%	-0.7%	-0.1%	0.5%	0.3%	1.1%	1.0%

CO2-gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990														
1991		0.3%												
1992		0.6%	0.5%											
1993		0.5%	0.7%	0.2%										
1994		0.4%	0.6%	0.2%	0.2%									
1995		0.3%	0.5%	0.2%	0.0%	-0.1%								
1996		0.1%	0.4%	0.1%	0.0%	0.1%	0.4%							
1997		0.0%	0.2%	0.1%	-0.1%	0.0%	0.2%	-0.4%						
1998		-0.1%	0.1%	0.1%	-0.1%	0.0%	0.2%	-0.2%	-0.5%					
1999		-0.2%	-0.1%	0.0%	-0.2%	0.0%	0.2%	-0.2%	-0.1%	0.3%				
2000		-0.3%	-0.2%	0.0%	-0.2%	-0.1%	0.2%	-0.2%	-0.1%	0.4%	0.1%			
2001		-0.4%	-0.3%	0.0%	-0.3%	-0.1%	0.1%	-0.3%	-0.2%	0.4%	0.3%	0.0%		
2002		-0.4%	-0.4%	-0.1%	-0.3%	-0.1%	0.1%	-0.3%	-0.2%	0.4%	0.4%	0.2%	0.0%	
2003		-0.5%	-0.5%	-0.1%	-0.4%	-0.1%	0.1%	-0.3%	-0.3%	0.4%	0.4%	0.3%	0.3%	0.1%
2004		-0.6%	-0.5%	-0.1%	-0.5%	-0.2%	0.0%	-0.3%	-0.3%	0.4%	0.4%	0.3%	0.4%	0.3%

Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990														
1991		3.7%												
1992		9.2%	7.7%											
1993		7.3%	9.5%	2.9%										
1994		5.4%	8.7%	3.2%	2.9%									
1995		3.8%	7.6%	2.5%	0.2%	-1.8%								
1996		1.9%	5.6%	1.8%	-0.3%	1.0%	6.0%							
1997		0.4%	3.6%	1.4%	-1.1%	0.4%	2.9%	-5.5%						
1998		-1.2%	1.0%	1.0%	-1.9%	-0.2%	3.4%	-3.5%	-7.8%					
1999		-2.8%	-1.0%	0.4%	-2.8%	-0.6%	2.8%	-3.4%	-1.7%	5.4%				
2000		-4.0%	-3.1%	0.2%	-3.5%	-0.9%	2.5%	-3.4%	-2.2%	6.1%	1.6%			
2001		-5.6%	-4.4%	-0.2%	-4.5%	-1.7%	1.7%	-4.1%	-3.1%	5.8%	4.8%	0.6%		
2002		-6.7%	-5.7%	-0.8%	-5.1%	-2.1%	1.2%	-4.4%	-3.5%	5.6%	5.8%	2.7%	0.7%	
2003		-7.7%	-6.9%	-1.3%	-6.2%	-2.2%	0.8%	-4.5%	-4.1%	5.4%	6.3%	4.0%	5.1%	2.1%
2004		-9.0%	-7.9%	-1.6%	-7.0%	-2.4%	0.8%	-4.4%	-4.2%	5.5%	6.4%	4.3%	5.9%	4.4%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-8: Brennstoffeinsatz im Haushaltssektor, historische Entwicklung, Projektionen und Trendfehler

fe HH fuel EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	6.23														
1984	6.40														
1985	6.43														
1986	6.26														
1987	6.32														
1988	6.71														
1989	6.88														
1990	6.14	6.45													
1991	6.35	6.69	6.36												
1992	6.51	7.07	6.87	6.56											
1993	6.86	6.97	7.00	6.76	6.87										
1994	6.69	6.90	6.96	6.81	7.09	6.79									
1995	6.70	6.83	6.92	6.77	6.92	6.71	6.73								
1996	7.27	6.74	6.82	6.75	6.91	6.93	7.18	7.22							
1997	6.94	6.67	6.72	6.74	6.88	6.92	7.00	6.87	7.04						
1998	6.33	6.58	6.57	6.73	6.85	6.91	7.06	7.06	6.54	6.35					
1999	6.67	6.51	6.47	6.71	6.81	6.92	7.06	7.11	7.01	6.74	6.66				
2000	7.01	6.45	6.35	6.72	6.77	6.93	7.08	7.15	7.02	6.83	6.81	6.93			
2001	6.83	6.37	6.29	6.71	6.72	6.92	7.07	7.14	6.99	6.84	7.06	7.00	6.81		
2002	6.92	6.32	6.21	6.69	6.70	6.93	7.07	7.16	7.00	6.87	7.17	7.18	6.89	6.92	
2003	7.18	6.28	6.15	6.68	6.65	6.96	7.09	7.19	7.00	6.90	7.25	7.30	7.23	7.10	
2004	7.03	6.20	6.10	6.68	6.62	7.00	7.13	7.24	7.04	6.95	7.31	7.36	7.32	7.30	
2005		6.15	6.06	6.66	6.56	6.98	7.14	7.24	7.02	6.96	7.31	7.32	7.35	7.34	
Steigung in %	0.5%	-0.7%	-1.0%	-0.1%	-0.5%	0.3%	0.3%	0.3%	0.3%	1.0%	1.7%	1.3%	2.2%	2.1%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.2%												
1992	0.6%	0.5%											
1993	0.4%	0.6%	0.2%										
1994	0.3%	0.5%	0.2%	0.2%									
1995	0.1%	0.4%	0.1%	0.0%	-0.1%								
1996	0.0%	0.2%	0.0%	-0.1%	0.0%	0.4%							
1997	-0.1%	0.1%	-0.1%	-0.2%	0.0%	0.2%	-0.4%						
1998	-0.2%	-0.1%	-0.1%	-0.2%	-0.1%	0.2%	-0.2%	-0.5%					
1999	-0.3%	-0.2%	-0.2%	-0.3%	-0.1%	0.1%	-0.2%	-0.1%	0.4%				
2000	-0.4%	-0.4%	-0.2%	-0.4%	-0.1%	0.1%	-0.2%	-0.1%	0.4%	0.1%			
2001	-0.5%	-0.5%	-0.3%	-0.5%	-0.2%	0.0%	-0.3%	-0.2%	0.4%	0.3%	0.0%		
2002	-0.6%	-0.6%	-0.3%	-0.5%	-0.2%	0.0%	-0.3%	-0.2%	0.4%	0.4%	0.1%	0.0%	
2003	-0.7%	-0.7%	-0.4%	-0.6%	-0.2%	0.0%	-0.3%	-0.3%	0.3%	0.4%	0.2%	0.3%	0.1%
2004	-0.8%	-0.8%	-0.4%	-0.7%	-0.2%	0.0%	-0.3%	-0.3%	0.3%	0.4%	0.2%	0.4%	0.3%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	3.0%												
1992	8.1%	7.2%											
1993	5.9%	8.4%	2.3%										
1994	4.0%	7.1%	2.2%	2.5%									
1995	2.2%	5.7%	1.0%	-0.6%	-1.9%								
1996	0.2%	3.4%	0.0%	-1.5%	0.6%	5.9%							
1997	-1.6%	1.3%	-0.8%	-2.6%	-0.2%	2.5%	-5.5%						
1998	-3.5%	-1.6%	-1.6%	-3.7%	-1.1%	2.7%	-3.5%	-7.7%					
1999	-5.2%	-3.9%	-2.6%	-5.0%	-1.6%	2.0%	-3.4%	-1.7%	5.5%				
2000	-6.8%	-6.2%	-3.1%	-6.0%	-2.1%	1.6%	-3.6%	-2.3%	6.1%	1.5%			
2001	-8.4%	-7.8%	-3.9%	-7.4%	-2.9%	0.7%	-4.4%	-3.3%	5.6%	4.6%	0.3%		
2002	-9.8%	-9.5%	-4.9%	-8.3%	-3.4%	0.1%	-4.7%	-3.8%	5.4%	5.6%	2.3%	0.6%	
2003	-11.0%	-11.0%	-5.7%	-9.6%	-3.6%	-0.3%	-5.0%	-4.4%	5.1%	6.1%	3.3%	4.8%	2.0%
2004	-12.6%	-12.3%	-6.3%	-10.7%	-3.8%	-0.4%	-5.0%	-4.6%	5.1%	6.2%	3.4%	5.4%	4.1%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-9: Brennstoffeinsatz im Haushaltssektor, klimabereinigte historische Entwicklung, Projektionen und Trendfehler

fe HH fuel WN EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	6.28														
1984	6.48														
1985	6.39														
1986	6.47														
1987	6.59														
1988	6.69														
1989	6.75														
1990	6.61	6.45													
1991	6.68	6.69	6.36												
1992	6.67	7.07	6.87	6.56											
1993	6.77	6.97	7.00	6.76	6.87										
1994	6.76	6.90	6.96	6.81	7.09	6.79									
1995	6.73	6.83	6.92	6.77	6.92	6.71	6.73								
1996	7.17	6.74	6.82	6.75	6.91	6.93	7.18	7.22							
1997	7.01	6.67	6.72	6.74	6.88	6.92	7.00	6.87	7.04						
1998	6.94	6.58	6.57	6.73	6.85	6.91	7.06	7.06	6.54	6.35					
1999	7.05	6.51	6.47	6.71	6.81	6.92	7.06	7.11	7.01	6.74	6.66				
2000	7.15	6.45	6.35	6.72	6.77	6.93	7.08	7.15	7.02	6.83	6.81	6.93			
2001	7.23	6.37	6.29	6.71	6.72	6.92	7.07	7.14	6.99	6.84	7.06	7.00	6.81		
2002	7.14	6.32	6.21	6.69	6.70	6.93	7.07	7.16	7.00	6.87	7.17	7.18	6.89	6.92	
2003	7.21	6.28	6.15	6.68	6.65	6.96	7.09	7.19	7.00	6.90	7.25	7.30	7.23	7.10	
2004	7.29	6.20	6.10	6.68	6.62	7.00	7.13	7.24	7.04	6.95	7.31	7.36	7.32	7.30	
2005		6.15	6.06	6.66	6.56	6.98	7.14	7.24	7.02	6.96	7.31	7.32	7.35	7.34	
Steigung in %	0.7%	-0.7%	-1.0%	-0.1%	-0.5%	0.3%	0.3%	0.3%	0.3%	1.0%	1.7%	1.3%	2.2%	2.1%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.2%												
1992	0.6%	0.5%											
1993	0.4%	0.6%	0.2%										
1994	0.3%	0.5%	0.2%	0.2%									
1995	0.1%	0.4%	0.1%	0.0%	-0.1%								
1996	0.0%	0.2%	0.0%	-0.1%	0.0%	0.4%							
1997	-0.1%	0.1%	-0.1%	-0.2%	0.0%	0.2%	-0.4%						
1998	-0.2%	-0.1%	-0.1%	-0.2%	-0.1%	0.2%	-0.2%	-0.5%					
1999	-0.3%	-0.3%	-0.2%	-0.3%	-0.1%	0.1%	-0.2%	-0.1%	0.3%				
2000	-0.5%	-0.4%	-0.2%	-0.4%	-0.1%	0.1%	-0.2%	-0.2%	0.4%	0.1%			
2001	-0.6%	-0.5%	-0.3%	-0.5%	-0.2%	0.0%	-0.3%	-0.2%	0.4%	0.3%	0.0%		
2002	-0.6%	-0.6%	-0.3%	-0.5%	-0.2%	0.0%	-0.3%	-0.3%	0.3%	0.4%	0.1%	0.0%	
2003	-0.7%	-0.7%	-0.4%	-0.6%	-0.2%	0.0%	-0.3%	-0.3%	0.3%	0.4%	0.2%	0.3%	0.1%
2004	-0.8%	-0.8%	-0.4%	-0.7%	-0.3%	0.0%	-0.3%	-0.3%	0.3%	0.4%	0.2%	0.3%	0.3%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	3.0%												
1992	8.1%	7.2%											
1993	5.8%	8.4%	2.3%										
1994	4.0%	7.1%	2.2%	2.5%									
1995	2.1%	5.7%	1.0%	-0.7%	-1.9%								
1996	0.1%	3.3%	0.0%	-1.5%	0.6%	5.9%							
1997	-1.7%	1.2%	-0.9%	-2.7%	-0.3%	2.4%	-5.5%						
1998	-3.6%	-1.7%	-1.7%	-3.8%	-1.1%	2.7%	-3.6%	-7.8%					
1999	-5.3%	-4.0%	-2.7%	-5.1%	-1.7%	1.9%	-3.5%	-1.8%	5.5%				
2000	-6.9%	-6.4%	-3.2%	-6.1%	-2.2%	1.5%	-3.6%	-2.3%	6.1%	1.5%			
2001	-8.6%	-7.9%	-4.1%	-7.5%	-3.0%	0.6%	-4.4%	-3.3%	5.6%	4.6%	0.3%		
2002	-10.0%	-9.6%	-5.0%	-8.4%	-3.5%	0.0%	-4.8%	-3.9%	5.3%	5.6%	2.2%	0.6%	
2003	-11.2%	-11.2%	-5.8%	-9.8%	-3.8%	-0.4%	-5.1%	-4.5%	5.0%	6.0%	3.3%	4.7%	2.0%
2004	-12.8%	-12.5%	-6.4%	-10.8%	-4.0%	-0.5%	-5.1%	-4.7%	5.0%	6.2%	3.4%	5.4%	4.1%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-10: Stromintensität bezogen auf die EDL im Haushaltssektor, historische Entwicklung, Projektionen und Trendfehler

elec edl HH GJ/household*year		AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
		0.00													
		0.00													
1983		32.21													
1984		32.93													
1985		32.93													
1986		33.33													
1987		34.21													
1988		35.27													
1989		35.12													
1990		35.63	35.47												
1991		36.47	36.78	36.70											
1992		35.22	37.76	37.06	35.52										
1993		37.14	37.70	37.52	35.78	37.33									
1994		37.39	37.56	37.76	35.69	38.30	36.96								
1995		37.91	37.67	37.70	35.60	38.08	37.19	37.91							
1996		39.11	37.57	37.57	35.49	37.96	37.24	38.48	38.68						
1997		38.34	37.62	37.40	35.52	37.81	37.17	38.94	37.48	38.07					
1998		39.68	37.60	37.27	35.45	37.69	37.20	39.09	38.99	38.78	39.34				
1999		39.68	37.64	37.15	35.27	37.48	37.22	39.05	38.94	39.49	39.48	39.63			
2000		41.00	37.83	36.93	35.18	37.38	37.43	39.18	39.77	40.27	40.47	39.65	40.86		
2001		40.46	37.87	37.12	35.20	37.28	37.42	39.11	40.39	40.90	40.64	40.19	41.73	40.69	
2002		42.20	38.05	37.24	35.02	37.18	37.61	39.20	40.48	41.04	40.85	40.86	42.32	41.31	41.39
2003		41.66	38.18	37.46	34.93	37.16	37.88	39.31	40.56	40.98	41.02	41.39	43.34	42.46	41.40
2004		42.04	38.39	37.61	34.85	37.05	38.24	39.55	40.70	41.03	41.32	42.06	43.90	42.93	41.64
2005			38.56	37.76	34.77	37.04	38.29	39.55	40.76	40.94	41.44	42.57	44.14	43.16	41.77
Steigung in %		1.4%	0.3%	0.0%	-0.2%	-0.2%	0.3%	0.3%	0.9%	1.0%	0.8%	1.3%	1.7%	1.6%	0.3%
CO2-gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		0.2%													
1992		0.4%	-0.1%												
1993		0.2%	-0.1%	-0.1%											
1994		-0.1%	-0.2%	-0.3%	0.1%										
1995		-0.2%	-0.4%	-0.5%	-0.1%	-0.1%									
1996		-0.4%	-0.6%	-0.7%	-0.3%	-0.3%	0.0%								
1997		-0.6%	-0.8%	-0.9%	-0.5%	-0.4%	0.0%	-0.6%							
1998		-0.8%	-1.1%	-1.1%	-0.8%	-0.6%	-0.1%	-0.2%	0.1%						
1999		-0.9%	-1.3%	-1.3%	-1.0%	-0.8%	-0.3%	-0.4%	0.2%	-0.1%					
2000		-1.0%	-1.5%	-1.5%	-1.2%	-0.8%	-0.4%	-0.3%	0.3%	0.1%	-0.1%				
2001		-1.1%	-1.6%	-1.7%	-1.4%	-1.0%	-0.6%	-0.2%	0.3%	0.0%	-0.1%	0.1%			
2002		-1.2%	-1.7%	-1.9%	-1.6%	-1.1%	-0.7%	-0.4%	0.2%	-0.1%	0.0%	0.2%	0.1%		
2003		-1.3%	-1.8%	-2.1%	-1.7%	-1.2%	-0.8%	-0.5%	0.1%	-0.2%	0.0%	0.4%	0.3%	-0.1%	
2004		-1.4%	-1.9%	-2.2%	-1.9%	-1.2%	-0.9%	-0.6%	-0.1%	-0.2%	0.1%	0.4%	0.3%	-0.2%	
Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		2.0%													
1992		3.1%	-0.6%												
1993		1.3%	-0.9%	-0.8%											
1994		-0.5%	-1.7%	-2.5%	1.1%										
1995		-1.6%	-3.2%	-4.1%	-0.9%	-0.8%									
1996		-3.2%	-4.9%	-5.6%	-2.5%	-2.0%	0.1%								
1997		-4.3%	-6.5%	-6.8%	-4.1%	-3.4%	0.0%	-4.4%							
1998		-5.5%	-8.0%	-8.1%	-5.6%	-4.5%	-0.8%	-1.8%	0.6%						
1999		-6.6%	-9.4%	-9.7%	-7.3%	-5.6%	-2.1%	-3.0%	1.2%	-0.9%					
2000		-7.2%	-11.0%	-10.9%	-8.6%	-6.2%	-2.9%	-2.1%	2.0%	0.5%	-1.1%				
2001		-8.1%	-11.5%	-11.9%	-9.8%	-7.3%	-4.2%	-1.7%	2.5%	-0.3%	-0.9%	1.0%			
2002		-8.7%	-12.2%	-13.3%	-11.1%	-7.8%	-5.0%	-2.5%	1.7%	-0.8%	-0.3%	1.3%	0.5%		
2003		-9.3%	-12.6%	-14.4%	-12.0%	-8.1%	-5.7%	-3.4%	0.5%	-1.4%	-0.1%	2.7%	2.2%	-1.0%	
2004		-9.7%	-13.1%	-15.5%	-13.2%	-8.2%	-6.1%	-4.0%	-0.4%	-1.7%	0.5%	3.0%	2.2%	-1.5%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-11: Stromeinsatz im Haushaltssektor, historische Entwicklung, Projektionen und Trendfehler

fe HH elec EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	2.70														
1984	2.81														
1985	2.86														
1986	2.95														
1987	3.06														
1988	3.21														
1989	3.26														
1990	3.33	3.31													
1991	3.44	3.46	3.45												
1992	3.37	3.59	3.51	3.38											
1993	3.58	3.62	3.59	3.43	3.58										
1994	3.63	3.65	3.64	3.45	3.70	3.62									
1995	3.75	3.70	3.67	3.47	3.71	3.68	3.76								
1996	3.90	3.73	3.69	3.49	3.73	3.72	3.86	3.88							
1997	3.87	3.78	3.71	3.52	3.76	3.76	3.94	3.81	3.86						
1998	4.07	3.81	3.73	3.54	3.78	3.80	4.00	4.01	3.98	4.05					
1999	4.12	3.85	3.76	3.56	3.79	3.84	4.03	4.06	4.10	4.11	4.12				
2000	4.29	3.90	3.77	3.58	3.81	3.90	4.09	4.19	4.23	4.26	4.17	4.30			
2001	4.33	3.95	3.82	3.61	3.83	3.95	4.13	4.30	4.34	4.33	4.28	4.43	4.32		
2002	4.56	4.00	3.86	3.62	3.85	4.01	4.19	4.36	4.41	4.40	4.40	4.54	4.44	4.57	
2003	4.58	4.05	3.91	3.64	3.88	4.08	4.25	4.41	4.45	4.47	4.51	4.69	4.61	4.61	
2004	4.66	4.10	3.96	3.66	3.90	4.17	4.32	4.47	4.50	4.55	4.64	4.80	4.71	4.69	
2005		4.16	4.00	3.68	3.94	4.22	4.37	4.53	4.54	4.61	4.74	4.87	4.78	4.75	
Steigung in %	3.0%	1.5%	1.0%	0.7%	0.7%	1.5%	1.5%	2.1%	2.2%	2.0%	2.6%	2.8%	2.7%	1.4%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.2%												
1992	0.2%	-0.1%											
1993	0.0%	-0.2%	-0.2%										
1994	-0.2%	-0.4%	-0.4%	0.1%									
1995	-0.4%	-0.6%	-0.7%	-0.2%	-0.1%								
1996	-0.6%	-0.9%	-0.9%	-0.5%	-0.3%	0.0%							
1997	-0.8%	-1.1%	-1.1%	-0.7%	-0.5%	0.0%	-0.6%						
1998	-1.0%	-1.4%	-1.4%	-1.0%	-0.7%	-0.2%	-0.2%	0.1%					
1999	-1.2%	-1.6%	-1.7%	-1.3%	-0.9%	-0.4%	-0.4%	0.2%	-0.1%				
2000	-1.3%	-1.9%	-1.9%	-1.5%	-1.0%	-0.5%	-0.3%	0.3%	0.1%	-0.2%			
2001	-1.5%	-2.0%	-2.1%	-1.8%	-1.2%	-0.7%	-0.3%	0.3%	0.0%	-0.1%	0.1%		
2002	-1.7%	-2.2%	-2.4%	-2.0%	-1.3%	-0.9%	-0.4%	0.2%	-0.1%	-0.1%	0.1%	0.0%	
2003	-1.8%	-2.4%	-2.6%	-2.2%	-1.4%	-1.0%	-0.5%	0.0%	-0.2%	0.0%	0.3%	0.3%	-0.2%
2004	-1.9%	-2.5%	-2.8%	-2.4%	-1.4%	-1.0%	-0.7%	-0.1%	-0.3%	0.1%	0.3%	0.3%	-0.2%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	1.4%												
1992	2.0%	-1.1%											
1993	0.0%	-1.9%	-1.3%										
1994	-1.8%	-3.1%	-3.4%	0.7%									
1995	-3.1%	-4.9%	-5.4%	-1.7%	-1.0%								
1996	-4.8%	-6.8%	-7.3%	-3.7%	-2.4%	0.1%							
1997	-6.1%	-8.7%	-8.8%	-5.6%	-4.1%	-0.4%	-4.4%						
1998	-7.7%	-10.4%	-10.5%	-7.4%	-5.4%	-1.5%	-1.7%	0.6%					
1999	-8.9%	-12.1%	-12.4%	-9.4%	-6.6%	-2.9%	-3.0%	1.2%	-0.8%				
2000	-9.8%	-13.9%	-13.9%	-11.0%	-7.3%	-3.8%	-2.2%	1.9%	0.4%	-1.2%			
2001	-10.9%	-14.7%	-15.2%	-12.6%	-8.5%	-5.2%	-1.9%	2.3%	-0.4%	-1.0%	0.8%		
2002	-11.8%	-15.7%	-16.8%	-14.0%	-9.1%	-6.0%	-2.9%	1.4%	-1.0%	-0.5%	0.9%	0.3%	
2003	-12.6%	-16.4%	-18.2%	-15.2%	-9.4%	-6.8%	-3.8%	0.1%	-1.7%	-0.2%	2.0%	1.9%	-1.1%
2004	-13.3%	-17.3%	-19.5%	-16.6%	-9.5%	-7.2%	-4.6%	-0.8%	-2.1%	0.4%	2.1%	1.8%	-1.7%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 3-12: Endenergieeinsatz im Haushaltssektor, historische Entwicklung, Projektionen und Trendfehler

fe res EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	8.94														
1984	9.21														
1985	9.29														
1986	9.21														
1987	9.39														
1988	9.93														
1989	10.14														
1990	9.46	9.76													
1991	9.79	10.15	9.81												
1992	9.88	10.66	10.38	9.94											
1993	10.45	10.59	10.58	10.19	10.45										
1994	10.32	10.55	10.60	10.26	10.79	10.41									
1995	10.46	10.53	10.59	10.24	10.63	10.39	10.49								
1996	11.16	10.48	10.51	10.24	10.65	10.66	11.04	11.10							
1997	10.82	10.45	10.43	10.27	10.63	10.68	10.94	10.68	10.89						
1998	10.40	10.39	10.31	10.28	10.62	10.71	11.06	11.07	10.51	10.39					
1999	10.79	10.36	10.22	10.27	10.59	10.76	11.09	11.17	11.11	10.86	10.78				
2000	11.30	10.35	10.12	10.30	10.58	10.84	11.17	11.34	11.25	11.09	10.98	11.22			
2001	11.16	10.32	10.11	10.32	10.55	10.87	11.20	11.44	11.34	11.17	11.34	11.43	11.13		
2002	11.48	10.32	10.08	10.31	10.55	10.94	11.26	11.52	11.41	11.27	11.57	11.72	11.33	11.48	
2003	11.76	10.33	10.07	10.32	10.53	11.05	11.34	11.60	11.45	11.37	11.76	11.99	11.83	11.72	
2004	11.68	10.31	10.05	10.34	10.52	11.16	11.45	11.71	11.54	11.50	11.95	12.16	12.03	11.98	
2005		10.31	10.05	10.34	10.50	11.20	11.51	11.76	11.57	11.57	12.06	12.20	12.13	12.09	
Steigung in %	1.3%	0.0%	-0.3%	0.2%	-0.1%	0.7%	0.7%	0.9%	1.0%	1.4%	2.1%	1.9%	2.4%	1.8%	
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		0.5%													
1992		1.1%	0.8%												
1993		0.8%	0.9%	0.2%											
1994		0.4%	0.7%	0.0%	0.4%										
1995		0.1%	0.4%	-0.2%	-0.2%	-0.3%									
1996		-0.3%	-0.1%	-0.5%	-0.5%	-0.1%	0.8%								
1997		-0.6%	-0.5%	-0.7%	-0.7%	-0.3%	0.3%	-1.0%							
1998		-1.0%	-1.0%	-1.0%	-1.0%	-0.5%	0.2%	-0.6%	-0.9%						
1999		-1.3%	-1.4%	-1.3%	-1.3%	-0.7%	0.0%	-0.7%	-0.1%	0.6%					
2000		-1.6%	-1.8%	-1.5%	-1.6%	-0.8%	-0.1%	-0.6%	-0.2%	0.8%	0.1%				
2001		-1.9%	-2.1%	-1.7%	-1.9%	-1.0%	-0.3%	-0.7%	-0.3%	0.7%	0.5%	0.1%			
2002		-2.2%	-2.5%	-2.0%	-2.2%	-1.2%	-0.5%	-0.9%	-0.4%	0.6%	0.7%	0.4%	0.1%		
2003		-2.4%	-2.7%	-2.2%	-2.5%	-1.3%	-0.6%	-1.0%	-0.6%	0.5%	0.8%	0.6%	0.8%	0.2%	
2004		-2.7%	-2.9%	-2.4%	-2.7%	-1.3%	-0.6%	-1.0%	-0.7%	0.5%	0.8%	0.6%	0.8%	0.4%	
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		2.4%													
1992		6.0%	4.3%												
1993		3.8%	4.7%	1.1%											
1994		1.9%	3.4%	0.2%	1.9%										
1995		0.3%	1.9%	-1.3%	-1.0%	-1.6%									
1996		-1.6%	-0.3%	-2.6%	-2.3%	-0.5%	3.8%								
1997		-3.2%	-2.4%	-3.8%	-3.8%	-1.7%	1.4%	-5.1%							
1998		-5.0%	-4.9%	-5.0%	-5.1%	-2.7%	1.1%	-2.9%	-4.8%						
1999		-6.6%	-6.9%	-6.3%	-6.7%	-3.5%	0.1%	-3.4%	-0.7%	3.1%					
2000		-7.9%	-9.1%	-7.3%	-8.0%	-4.2%	-0.5%	-3.2%	-0.8%	3.9%	0.5%				
2001		-9.4%	-10.4%	-8.3%	-9.5%	-5.1%	-1.6%	-3.6%	-1.3%	3.3%	2.4%	0.5%			
2002		-10.5%	-11.8%	-9.6%	-10.6%	-5.7%	-2.3%	-4.2%	-2.0%	2.9%	3.2%	1.7%	0.5%		
2003		-11.6%	-13.0%	-10.6%	-11.9%	-6.0%	-2.9%	-4.7%	-2.8%	2.4%	3.6%	2.8%	3.6%	0.8%	
2004		-12.8%	-14.2%	-11.6%	-13.1%	-6.2%	-3.1%	-5.0%	-3.3%	2.3%	3.9%	2.9%	4.0%	1.8%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-4 Daten GHD-Sektor

A-4.1 Daten der AEOs 83 bis 04

Tabelle A 4-1: Brennstoffeinsatz im GHD-Sektor, historische Entwicklung von 1983 bis 2004 und Projektionen

	AEO/NER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
Commercial Sector Fuel Consumption (Final Energy) – Actual and Projected Values (83 - 04)																								
EJ																								
Commercial Sector Fuel Consumption (Final Energy)																								
1981																								
1982																								
1983																								
1984																								
1985																								
1986																								
1987																								
1988																								
1989																								
1990																								
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1997																								
1998																								
1999																								
2000																								
2001																								
2002																								
2003																								
2004																								
2005																								

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-2: Stromeinsatz im GHD-Sektor, historische Entwicklung von 1983 bis 2004 und Projektionen

	AER/MER	AE0'83	AE0'84	AE0'85	AE0'86	AE0'87	AE0'89	AE0'90	AE0'91	AE0'92	AE0'93	AE0'94	AE0'95	AE0'96	AE0'97	AE0'98	AE0'99	AE0'00	AE0'01	AE0'02	AE0'03	AE0'04	
Commercial Sector Electricity Consumption (Final Energy) – Actual and Projected Values (183 - '04)																							
E)																							
1981																							
1982																							
1983		2.23	2.24	2.24																			
1984		2.39	2.45	2.49	2.36																		
1985		2.48	2.54	2.58	2.41	2.49																	
1986		2.57	2.64	2.65	2.50	2.54	2.60																
1987		2.68	2.72	2.72	2.60	2.72	2.72																
1988		2.82	2.81	2.80	2.66	2.73	2.84	2.81															
1989		2.92	2.88	2.88	2.75	2.68	2.81	2.95	2.93	2.92													
1990		3.02	2.96	2.96	2.83	2.73	2.88	3.04	3.06	3.03	3.02	3.02	2.98										
1991		3.08					2.96	3.12	3.09	3.08	3.09	3.07	3.04										
1992		3.06					3.04	3.21	3.17	3.20	3.11	3.12	3.02										
1993		3.18					3.12	3.30	3.23	3.24	3.17	3.17	3.12										
1994		3.29					3.20	3.40	3.30	3.30	3.23	3.20	3.25										
1995		3.43	3.33	3.38	3.19	3.18	3.27	3.48	3.38	3.38	3.29	3.26	3.28	3.30	3.28								
1996		3.53					3.57	3.57	3.45	3.45	3.36	3.31	3.31	3.39	3.41	3.43							
1997		3.70					3.65	3.65	3.52	3.52	3.42	3.37	3.33	3.43	3.50	3.56	3.53						
1998		3.88					3.73	3.73	3.60	3.60	3.47	3.42	3.36	3.47	3.58	3.68	3.74	3.76	3.84				
1999		3.97					3.82	3.82	3.68	3.68	3.53	3.44	3.38	3.50	3.64	3.74	3.81	3.88	3.90	3.97			
2000		4.17					3.89	3.89	3.76	3.76	3.59	3.48	3.40	3.54	3.69	3.79	3.89	3.95	3.99	4.12			
2001		4.31				3.61	3.62	3.89	4.02	3.85	3.84	3.64	3.42	3.58	3.74	3.84	3.96	4.02	4.12	4.22	4.18	4.31	4.31
2002		4.39							3.94	3.92	3.69	3.57	3.45	3.62	3.78	3.89	4.02	4.09	4.25	4.29	4.43	4.43	4.35
2003		4.32							4.02	4.01	3.75	3.60	3.47	3.66	3.83	3.94	4.07	4.15	4.36	4.44	4.49	4.49	4.37
2004		4.42							4.11	4.10	3.79	3.61	3.49	3.70	3.88	3.99	4.12	4.21	4.47	4.57	4.62	4.62	4.51
2005								4.54	4.20	4.20	3.84	3.63	3.52	3.75	3.92	4.05	4.18	4.28	4.58	4.70	4.73	4.73	4.67

Quelle:

AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-3: Direkte CO₂-Emissionen im GHD-Sektor, historische Entwicklung von 1983 bis 2004 und Projektionen

CO ₂ Emissions of Commercial Sector Fuel Use – Actual and Projected Values ('83 - '04)		AE0'83	AE0'84	AE0'85	AE0'86	AE0'87	AE0'89	AE0'90	AE0'91	AE0'92	AE0'93	AE0'94	AE0'95	AE0'96	AE0'97	AE0'98	AE0'99	AE0'00	AE0'01	AE0'02	AE0'03	AE0'04		
CO ₂ Emissions of Commercial Sector Fuel Use																								
million metric tons of CO ₂																								
AER/MER																								
1981																								
1982																								
1983	225.7	206.3	216.8	209.6																				
1984	236.2	235.2	228.9	219.6																				
1985	217.9	241.4	228.3	215.1	226.9	217.4																		
1986	216.1	246.9	232.4	221.1	224.5	213.4	213.0																	
1987	219.9	251.8	238.4	221.9	229.6	209.3	217.5																	
1988	230.1	254.9	243.3	222.0	233.0	212.7	230.1	234.4																
1989	229.9	257.1	248.1	222.0	234.7	215.6	233.6	227.4	233.9															
1990	224.1	257.6	249.4	221.8	236.9	219.9	236.6	228.6	224.4	221.0	223.7	216.7	217.4											
1991	225.5									225.0	224.0	220.0	218.5											
1992	225.8									230.1	235.5	243.1	221.1	218.5										
1993	223.1									228.9	235.0	243.5	221.2	218.5										
1994	225.6									227.9	235.1	244.2	220.4	220.4										
1995	228.4	246.2	253.1	213.7	242.8	228.7	236.3	218.7	228.2	234.6	244.2	224.4	217.1	221.5	216.9									
1996	236.9									227.7	235.5	244.2	224.8	217.2	223.7	227.0								
1997	237.1									227.5	234.3	243.5	225.9	218.9	232.6	237.6								
1998	219.6									227.1	234.6	243.1	226.2	219.3	232.6	238.7	233.5							
1999	222.2									226.1	233.5	242.4	226.6	219.3	227.2	237.7	220.7	220.0	217.5					
2000	237.0									199.7	233.8	242.0	227.3	219.3	230.3	238.3	236.6	224.5	223.1	219.9				
2001	227.1									225.7	233.8	242.0	227.3	219.3	231.0	228.7	238.3	226.3	220.8	239.4	234.4			
2002	231.1									225.4	234.9	241.6	227.7	218.9	232.5	239.6	239.6	228.7	230.1	231.6	235.9	227.2		
2003	238.3									224.2	233.2	240.5	228.4	218.5	233.6	241.5	240.9	230.5	238.6	238.9	230.1	231.1		
2004	228.7									223.3	232.2	239.4	229.5	218.2	234.7	245.1	243.6	233.2	244.3	246.8	236.6	242.1		
2005										195.7	221.8	239.1	229.5	217.4	236.9	246.7	244.6	234.7	249.7	254.0	246.2	244.2		

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-4.2 Detaildaten der AEOs 92 bis 04

Tabelle A 4-4: EDL pro Einheit des BIP im GHD-Sektor, historische Entwicklung, Projektionen und Trendfehler

EDL GHD/BIP Square foot / 1,000\$ GDP	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	10.30													
1984	9.81													
1985	9.64													
1986	9.51													
1987	9.40													
1988	9.20													
1989	9.05													
1990	9.01	9.39												
1991	9.11	9.58	9.53											
1992	8.90	9.41	9.48	9.61										
1993	8.75	9.26	9.26	9.45	9.28									
1994	8.50	9.12	9.10	9.25	9.06	9.38								
1995	8.41	8.93	8.93	9.13	8.94	9.27	8.98							
1996	8.22	8.76	8.75	8.95	8.81	9.19	8.85	8.72						
1997	8.00	8.57	8.55	8.75	8.56	8.97	8.75	8.51	7.09					
1998	7.84	8.33	8.27	8.50	8.31	8.73	8.52	8.34	6.97	6.94				
1999	7.67	8.09	8.04	8.26	8.09	8.51	8.28	8.20	6.93	6.82	6.63			
2000	7.56	7.90	7.88	8.05	7.93	8.34	8.09	8.10	6.85	6.84	6.45	6.53		
2001	7.65	7.72	7.70	7.88	7.78	8.18	7.96	8.00	6.79	6.80	6.38	6.64	7.13	
2002	7.62	7.51	7.49	7.66	7.55	7.97	7.78	7.85	6.67	6.71	6.29	6.63	7.15	7.18
2003	7.49	7.30	7.30	7.43	7.32	7.77	7.58	7.72	6.56	6.60	6.20	6.49	7.01	7.24
2004	7.27	7.13	7.13	7.25	7.11	7.58	7.41	7.59	6.48	6.50	6.12	6.40	6.88	7.20
2005		6.93	6.95	7.07	6.92	7.37	7.23	7.44	6.32	6.40	6.02	6.29	6.79	7.09
Steigung in %	-1.4%	-2.0%	-2.0%	-2.1%	-2.1%	-2.0%	-2.0%	-1.5%	-1.3%	-1.0%	-1.4%	-0.9%	-1.3%	-0.4%

CO2-gewichteter Trendfehler	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.7%												
1992	0.7%	0.3%											
1993	0.8%	0.2%	0.1%										
1994	0.9%	0.2%	0.0%	-0.1%									
1995	0.8%	0.2%	0.1%	0.0%	0.1%								
1996	0.8%	0.2%	0.1%	0.0%	0.2%	0.1%							
1997	0.7%	0.1%	0.0%	-0.2%	0.1%	0.1%	-0.1%						
1998	0.5%	-0.2%	-0.3%	-0.4%	-0.1%	0.0%	-0.2%	0.0%					
1999	0.3%	-0.4%	-0.5%	-0.6%	-0.2%	-0.3%	-0.2%	0.1%	-0.1%				
2000	0.1%	-0.5%	-0.7%	-0.7%	-0.3%	-0.4%	-0.2%	0.2%	0.2%	-0.2%			
2001	0.0%	-0.7%	-0.8%	-0.8%	-0.5%	-0.5%	-0.2%	0.3%	0.4%	-0.2%	0.5%		
2002	-0.3%	-1.0%	-1.1%	-1.1%	-0.7%	-0.7%	-0.3%	0.2%	0.4%	-0.2%	0.7%	0.3%	
2003	-0.6%	-1.2%	-1.4%	-1.4%	-0.9%	-0.9%	-0.4%	0.1%	0.3%	-0.2%	0.6%	0.1%	0.4%
2004	-0.7%	-1.4%	-1.6%	-1.6%	-1.1%	-1.0%	-0.5%	0.1%	0.3%	-0.2%	0.5%	0.0%	0.5%

Trendfehler	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	4.4%												
1992	4.8%	1.7%											
1993	5.2%	1.3%	0.4%										
1994	5.6%	1.5%	0.2%	-0.5%									
1995	5.3%	1.4%	0.6%	-0.1%	0.7%								
1996	5.1%	1.1%	0.4%	0.2%	1.5%	0.4%							
1997	4.5%	0.4%	-0.3%	-1.0%	0.8%	0.9%	-0.8%						
1998	3.1%	-1.3%	-1.5%	-2.4%	-0.3%	-0.3%	-1.2%	-0.2%					
1999	1.7%	-2.5%	-2.9%	-3.5%	-1.4%	-1.6%	-1.4%	0.7%	-0.3%				
2000	0.7%	-3.1%	-3.9%	-4.1%	-2.0%	-2.5%	-1.2%	1.0%	1.4%	-1.3%			
2001	-0.1%	-4.0%	-4.7%	-4.6%	-2.6%	-2.8%	-1.1%	1.5%	2.3%	-0.9%	3.0%		
2002	-1.7%	-5.4%	-6.1%	-6.2%	-3.8%	-3.7%	-1.7%	1.0%	2.3%	-1.0%	4.2%	1.5%	
2003	-3.2%	-6.7%	-7.8%	-7.9%	-5.1%	-4.9%	-2.1%	0.6%	1.9%	-1.3%	3.3%	0.8%	2.2%
2004	-4.2%	-7.8%	-9.0%	-9.4%	-6.2%	-6.0%	-2.6%	0.6%	1.6%	-1.4%	3.1%	0.2%	2.8%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, EERE (2007) eigene Berechnungen

Tabelle A 4-5: EDL im GHD-Sektor (Zahl der Haushalte), historische Entwicklung, Projektionen und Trendfehler

EDL Commercial
Billion square foot

	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		55.88													
1984		57.00													
1985		58.34													
1986		59.60													
1987		60.85													
1988		62.03													
1989		63.18													
1990		64.06	62.90												
1991		64.70	64.10	64.00											
1992		65.28	65.30	65.20	66.10										
1993		65.87	66.50	66.40	67.00	67.00									
1994		66.63	67.80	67.70	67.90	67.90	70.00								
1995		67.52	69.00	69.00	68.80	68.80	71.00	70.66							
1996		68.43	70.30	70.30	69.60	69.60	72.00	71.56	70.93						
1997		69.59	71.60	71.60	70.40	70.30	72.90	72.32	71.89	60.32					
1998		71.06	73.00	72.90	71.10	71.00	73.80	73.01	72.97	61.23	61.24				
1999		72.61	74.30	74.20	71.80	71.70	74.60	73.66	73.98	62.09	62.33	62.80			
2000		74.23	75.60	75.60	72.40	72.40	75.40	74.29	74.90	62.89	63.34	64.31	64.50		
2001		75.62	77.00	76.90	73.00	73.00	76.20	74.95	75.72	63.60	64.20	65.93	66.10	70.22	
2002		76.75	78.40	78.30	73.70	73.60	77.00	75.61	76.51	64.25	64.93	67.46	67.62	71.91	72.09
2003		77.80	79.70	79.70	74.20	74.20	77.70	76.25	77.34	64.94	65.62	68.73	69.02	73.47	74.14
2004		78.85	81.10	81.10	74.80	74.80	78.50	76.89	78.19	65.62	66.34	69.82	70.38	74.88	76.01
2005			82.50	82.40	75.40	75.30	79.30	77.51	79.02	66.28	67.11	70.85	71.67	76.09	77.57
Steigung in %	1.7%	2.1%	2.1%	1.1%	1.0%	1.2%	1.0%	1.3%	1.2%	1.3%	2.2%	2.2%	2.1%	2.5%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.0%												
1992	0.0%	0.0%											
1993	0.1%	0.0%	-0.1%										
1994	0.1%	0.1%	-0.1%	-0.1%									
1995	0.1%	0.1%	-0.2%	-0.1%	0.0%								
1996	0.1%	0.2%	-0.2%	-0.2%	-0.1%	-0.1%							
1997	0.2%	0.2%	-0.3%	-0.3%	-0.1%	-0.2%	0.0%						
1998	0.3%	0.2%	-0.4%	-0.4%	-0.2%	-0.3%	-0.1%	0.0%					
1999	0.3%	0.3%	-0.5%	-0.5%	-0.3%	-0.4%	-0.1%	0.0%	0.0%				
2000	0.3%	0.3%	-0.7%	-0.6%	-0.4%	-0.5%	-0.1%	-0.1%	0.1%	0.1%			
2001	0.4%	0.4%	-0.8%	-0.7%	-0.5%	-0.6%	-0.2%	-0.2%	0.0%	0.3%	0.2%		
2002	0.5%	0.4%	-0.9%	-0.8%	-0.5%	-0.7%	-0.3%	-0.2%	0.0%	0.5%	0.3%	0.2%	
2003	0.5%	0.5%	-1.0%	-0.9%	-0.6%	-0.8%	-0.4%	-0.3%	-0.1%	0.5%	0.4%	0.3%	0.2%
2004	0.5%	0.6%	-1.1%	-1.0%	-0.7%	-0.9%	-0.4%	-0.4%	-0.2%	0.6%	0.5%	0.4%	0.4%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.1%												
1992	0.2%	0.1%											
1993	0.3%	0.2%	-0.4%										
1994	0.6%	0.5%	-0.7%	-0.3%									
1995	0.7%	0.7%	-1.0%	-0.7%	-0.2%								
1996	0.9%	1.0%	-1.5%	-1.2%	-0.5%	-0.4%							
1997	1.2%	1.2%	-2.0%	-1.7%	-0.8%	-0.9%	-0.3%						
1998	1.5%	1.4%	-2.5%	-2.3%	-1.2%	-1.5%	-0.3%	-0.1%					
1999	1.8%	1.7%	-3.1%	-2.9%	-1.6%	-2.2%	-0.5%	-0.2%	0.2%				
2000	2.0%	2.0%	-3.8%	-3.4%	-2.1%	-2.8%	-0.8%	-0.5%	0.3%	0.9%			
2001	2.3%	2.2%	-4.4%	-4.1%	-2.5%	-3.4%	-1.2%	-0.9%	0.1%	1.9%	1.0%		
2002	2.6%	2.5%	-4.9%	-4.7%	-3.0%	-4.0%	-1.7%	-1.3%	-0.2%	2.7%	1.8%	0.9%	
2003	2.8%	2.9%	-5.7%	-5.3%	-3.5%	-4.6%	-2.0%	-1.7%	-0.6%	3.1%	2.4%	1.6%	1.4%
2004	3.1%	3.2%	-6.3%	-5.9%	-3.9%	-5.2%	-2.4%	-2.1%	-1.0%	3.2%	2.9%	2.1%	2.4%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-6: Brennstoffintensität bezogen auf die EDL im GHD-Sektor, historische Entwicklung, Projektionen und Trendfehler

MJ/square foot	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		71.85													
1984		73.42													
1985		66.63													
1986		64.08													
1987		64.31													
1988		66.61													
1989		64.97													
1990		61.58	62.90												
1991		61.77	62.88	62.64											
1992		61.69	64.79	66.35	60.33										
1993		61.00	63.78	65.31	59.84	59.68									
1994		60.87	62.71	64.67	59.36	59.82	57.58								
1995		61.56	61.62	63.30	58.89	57.97	57.21	58.51							
1996		63.33	60.78	62.28	58.36	57.76	58.03	60.14	60.90						
1997		62.69	59.53	61.15	57.70	57.18	57.46	58.54	59.82	73.24					
1998		57.09	58.53	59.92	57.28	56.91	57.18	58.14	59.88	67.19	65.69				
1999		56.23	57.38	58.87	57.01	56.51	56.57	57.78	59.57	71.41	67.01	64.08			
2000		58.03	56.53	57.92	56.69	55.81	56.25	57.41	59.27	70.98	66.53	64.31	66.79		
2001		55.18	55.78	56.94	56.22	55.35	55.94	57.14	59.02	70.59	66.34	65.28	65.52	62.01	
2002		55.87	54.50	55.78	55.83	54.76	55.63	56.86	58.85	70.27	66.11	66.21	66.14	59.60	58.98
2003		56.47	53.75	54.80	55.74	54.32	55.54	56.59	58.66	69.93	65.81	66.59	67.02	60.20	59.76
2004		53.11	52.69	53.60	55.43	53.74	55.37	56.36	58.48	69.66	65.51	66.48	67.06	60.59	57.56
2005			51.67	52.88	55.13	53.38	54.95	56.11	58.27	69.30	65.18	66.10	66.43	60.49	57.56
Steigung in %	-1.0%	-1.4%	-1.5%	-0.7%	-0.9%	-0.5%	-0.6%	-0.4%	-0.3%	-0.2%	0.7%	0.2%	-0.3%	-1.1%	

CO2-gewichteter Trendfehler	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.1%												
1992	0.2%	0.3%											
1993	0.2%	0.3%	0.0%										
1994	0.2%	0.3%	0.0%	0.1%									
1995	0.2%	0.3%	0.0%	0.0%	0.0%								
1996	0.2%	0.2%	0.0%	0.0%	0.1%	0.2%							
1997	0.1%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%						
1998	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	-0.3%					
1999	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.1%				
2000	0.0%	0.1%	0.1%	0.0%	0.2%	0.1%	0.1%	0.0%	0.1%	0.1%			
2001	0.0%	0.0%	0.1%	0.0%	0.2%	0.2%	0.1%	0.0%	0.2%	0.2%	0.0%		
2002	-0.1%	0.0%	0.1%	0.0%	0.2%	0.2%	0.1%	0.0%	0.2%	0.3%	0.0%	-0.1%	
2003	-0.1%	0.0%	0.1%	0.0%	0.2%	0.2%	0.1%	0.1%	0.2%	0.3%	0.1%	0.0%	0.1%
2004	-0.1%	-0.1%	0.2%	0.0%	0.2%	0.2%	0.2%	0.1%	0.2%	0.3%	0.2%	0.0%	0.0%

Trendfehler	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	1.2%												
1992	5.5%	7.2%											
1993	5.1%	6.7%	0.3%										
1994	4.5%	6.9%	0.6%	1.4%									
1995	3.8%	5.8%	1.0%	-0.7%	0.5%								
1996	3.5%	5.2%	1.1%	0.0%	3.0%	3.9%							
1997	2.4%	4.4%	1.1%	0.1%	3.1%	2.2%	-0.7%						
1998	1.8%	3.3%	1.4%	0.7%	3.7%	2.6%	0.4%	-7.3%					
1999	0.8%	2.6%	1.9%	0.9%	3.6%	3.0%	0.9%	-0.5%	3.1%				
2000	0.3%	1.9%	2.4%	0.7%	4.0%	3.3%	1.4%	-0.1%	3.3%	1.4%			
2001	-0.1%	1.2%	2.5%	0.9%	4.5%	3.9%	2.0%	0.3%	4.0%	3.9%	-0.9%		
2002	-1.5%	0.1%	2.8%	0.7%	4.9%	4.3%	2.6%	0.8%	4.7%	6.4%	0.9%	-3.0%	
2003	-1.9%	-0.8%	3.6%	0.8%	5.7%	4.8%	3.3%	1.3%	5.2%	8.0%	3.2%	-1.1%	2.3%
2004	-3.0%	-2.1%	3.9%	0.7%	6.3%	5.3%	3.9%	1.8%	5.6%	8.8%	4.3%	0.5%	-0.6%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-7: Brennstoffeinsatz im GHD-Sektor, historische Entwicklung, Projektionen und Trendfehler

fe com fuel															
EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		4.01													
1984		4.19													
1985		3.89													
1986		3.82													
1987		3.91													
1988		4.13													
1989		4.10													
1990		3.94	3.96												
1991		4.00	4.03	4.01											
1992		4.03	4.23	4.33	3.99										
1993		4.02	4.24	4.34	4.01	4.00									
1994		4.06	4.25	4.38	4.03	4.06	4.03								
1995		4.16	4.25	4.37	4.05	3.99	4.06	4.13							
1996		4.33	4.27	4.38	4.06	4.02	4.18	4.30	4.32						
1997		4.36	4.26	4.38	4.06	4.02	4.19	4.23	4.30	4.42					
1998		4.06	4.27	4.37	4.07	4.04	4.22	4.25	4.37	4.11	4.02				
1999		4.08	4.26	4.37	4.09	4.05	4.22	4.26	4.41	4.43	4.18	4.02			
2000		4.31	4.27	4.38	4.10	4.04	4.24	4.27	4.44	4.46	4.21	4.14	4.31		
2001		4.17	4.30	4.38	4.10	4.04	4.26	4.28	4.47	4.49	4.26	4.30	4.33	4.35	
2002		4.29	4.27	4.37	4.11	4.03	4.28	4.30	4.50	4.52	4.29	4.47	4.47	4.29	4.25
2003		4.39	4.28	4.37	4.14	4.03	4.32	4.32	4.54	4.54	4.32	4.58	4.63	4.42	4.43
2004		4.19	4.27	4.35	4.15	4.02	4.35	4.33	4.57	4.57	4.35	4.64	4.72	4.54	4.37
2005			4.26	4.36	4.16	4.02	4.36	4.35	4.60	4.59	4.37	4.68	4.76	4.60	4.46
Steigung in %		0.5%	0.3%	0.2%	0.3%	0.0%	0.7%	0.3%	0.8%	0.9%	1.1%	2.9%	2.4%	1.7%	1.4%

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991		0.1%												
1992		0.3%	0.3%											
1993		0.2%	0.3%	0.0%										
1994		0.2%	0.3%	0.0%	0.0%									
1995		0.2%	0.3%	0.0%	-0.1%	0.0%								
1996		0.2%	0.3%	0.0%	0.0%	0.1%	0.2%							
1997		0.2%	0.2%	0.0%	-0.1%	0.1%	0.1%	0.0%						
1998		0.1%	0.2%	0.0%	-0.1%	0.1%	0.0%	0.0%	-0.3%					
1999		0.1%	0.2%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.1%				
2000		0.1%	0.2%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%			
2001		0.1%	0.1%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%		
2002		0.0%	0.1%	-0.1%	-0.2%	0.1%	0.0%	0.0%	0.0%	0.2%	0.4%	0.1%	-0.1%	
2003		0.0%	0.1%	-0.1%	-0.2%	0.1%	0.0%	0.0%	0.0%	0.2%	0.5%	0.2%	0.0%	0.1%
2004		0.0%	0.0%	-0.1%	-0.2%	0.1%	0.0%	0.1%	0.0%	0.2%	0.5%	0.3%	0.1%	0.1%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991		1.3%												
1992		5.7%	7.3%											
1993		5.4%	7.0%	0.0%										
1994		5.1%	7.4%	-0.1%	1.0%									
1995		4.5%	6.6%	-0.1%	-1.4%	0.2%								
1996		4.5%	6.2%	-0.4%	-1.1%	2.5%	3.5%							
1997		3.6%	5.6%	-0.9%	-1.7%	2.2%	1.3%	-1.0%						
1998		3.3%	4.8%	-1.2%	-1.7%	2.4%	1.0%	0.1%	-7.4%					
1999		2.5%	4.3%	-1.2%	-2.0%	1.9%	0.7%	0.4%	-0.7%	3.3%				
2000		2.2%	4.0%	-1.5%	-2.7%	1.9%	0.4%	0.6%	-0.6%	3.6%	2.2%			
2001		2.2%	3.4%	-2.0%	-3.2%	1.8%	0.3%	0.7%	-0.5%	4.2%	5.8%	0.0%		
2002		1.1%	2.6%	-2.3%	-4.0%	1.8%	0.1%	0.9%	-0.5%	4.4%	9.2%	2.7%	-2.1%	
2003		0.9%	2.1%	-2.3%	-4.5%	2.0%	0.0%	1.2%	-0.5%	4.5%	11.3%	5.7%	0.5%	3.6%
2004		0.1%	1.0%	-2.6%	-5.3%	2.2%	-0.1%	1.4%	-0.3%	4.6%	12.3%	7.3%	2.6%	1.8%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-8: Stromintensität bezogen auf die EDL im GHD-Sektor, historische Entwicklung, Projektionen und Trendfehler

elec edl com MJ/square foot		AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
		0.00													
		0.00													
1983		39.96													
1984		41.91													
1985		42.52													
1986		43.17													
1987		44.02													
1988		45.50													
1989		46.20													
1990		47.11	48.14												
1991		47.59	48.06	48.30											
1992		46.88	48.96	47.74	47.25										
1993		48.35	48.71	47.67	47.24	46.61									
1994		49.33	48.71	47.69	47.08	47.86	47.18								
1995		50.81	48.93	47.71	47.39	47.69	47.55	48.20							
1996		51.55	49.08	47.73	47.60	47.60	47.04	48.96	50.13						
1997		53.11	49.22	47.74	47.81	47.42	47.04	48.72	49.82	60.18					
1998		54.60	49.28	47.62	48.08	47.25	47.03	49.06	50.44	61.07	61.40				
1999		54.72	49.56	47.63	47.90	47.09	46.95	49.38	50.53	61.42	62.17	62.08			
2000		56.22	49.68	47.45	48.09	46.92	47.02	49.64	50.62	61.86	62.32	62.08	63.86		
2001		57.00	49.88	47.33	48.27	46.83	46.94	49.86	50.74	62.19	62.62	62.43	63.78	61.37	
2002		57.14	50.06	47.16	48.39	46.88	47.00	50.06	50.84	62.60	63.02	62.98	63.51	61.56	60.33
2003		55.51	50.30	46.99	48.49	46.78	47.12	50.24	50.95	62.74	63.21	63.45	64.29	61.14	58.90
2004		56.09	50.61	46.70	48.24	46.69	47.18	50.42	51.08	62.86	63.43	63.96	65.00	61.70	59.38
2005			50.90	46.61	48.14	46.80	47.23	50.55	51.26	63.12	63.78	64.71	65.61	62.20	60.15
Steigung in %		1.7%	0.4%	-0.2%	0.2%	-0.1%	0.0%	0.5%	0.3%	0.6%	0.5%	0.7%	0.6%	0.3%	0.0%
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-0.3%													
1992		-0.3%	-0.3%												
1993		-0.5%	-0.6%	-0.2%											
1994		-0.7%	-0.8%	-0.5%	0.1%										
1995		-0.9%	-1.0%	-0.6%	-0.1%	-0.1%									
1996		-1.0%	-1.1%	-0.7%	-0.4%	-0.4%	0.0%								
1997		-1.2%	-1.4%	-0.9%	-0.6%	-0.6%	-0.3%	-0.3%							
1998		-1.4%	-1.6%	-1.0%	-0.8%	-0.8%	-0.4%	-0.3%	0.0%						
1999		-1.5%	-1.8%	-1.2%	-1.1%	-1.0%	-0.5%	-0.5%	-0.1%	0.0%					
2000		-1.7%	-2.1%	-1.4%	-1.3%	-1.2%	-0.6%	-0.6%	-0.2%	-0.2%	-0.2%				
2001		-1.9%	-2.3%	-1.6%	-1.6%	-1.5%	-0.7%	-0.8%	-0.3%	-0.3%	-0.3%	-0.2%			
2002		-2.0%	-2.5%	-1.7%	-1.7%	-1.6%	-0.8%	-0.9%	-0.4%	-0.4%	-0.3%	-0.4%	-0.1%		
2003		-2.1%	-2.6%	-1.8%	-1.8%	-1.7%	-0.9%	-1.0%	-0.5%	-0.5%	-0.4%	-0.4%	-0.4%	-0.5%	
2004		-2.1%	-2.8%	-2.0%	-2.0%	-1.8%	-1.0%	-1.2%	-0.6%	-0.6%	-0.4%	-0.4%	-0.4%	-0.5%	
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.3%													
1992		-2.5%	-3.2%												
1993		-4.8%	-5.1%	-1.9%											
1994		-6.5%	-6.8%	-4.0%	0.8%										
1995		-7.7%	-8.4%	-5.1%	-1.3%	-0.9%									
1996		-9.0%	-9.8%	-6.2%	-3.1%	-3.6%	-0.1%								
1997		-10.1%	-11.2%	-7.2%	-4.9%	-5.1%	-2.1%	-2.2%							
1998		-11.3%	-12.8%	-8.1%	-6.7%	-6.5%	-2.9%	-2.4%	0.0%						
1999		-12.1%	-14.0%	-9.7%	-8.3%	-8.0%	-3.7%	-3.6%	-0.9%	-0.2%					
2000		-13.1%	-15.5%	-10.6%	-9.9%	-9.1%	-4.5%	-4.8%	-1.5%	-1.3%	-1.4%				
2001		-13.9%	-16.8%	-11.5%	-11.2%	-10.5%	-5.3%	-5.8%	-2.3%	-2.1%	-2.1%	-1.4%			
2002		-14.6%	-18.1%	-12.4%	-12.3%	-11.5%	-6.1%	-6.8%	-2.9%	-2.7%	-2.5%	-3.1%	-0.9%		
2003		-15.3%	-19.4%	-13.2%	-13.5%	-12.3%	-6.9%	-7.7%	-3.8%	-3.6%	-2.9%	-3.1%	-2.8%	-3.5%	
2004		-15.7%	-20.8%	-14.7%	-14.7%	-13.2%	-7.6%	-8.5%	-4.7%	-4.4%	-3.3%	-3.1%	-3.0%	-3.9%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-9: Stromeinsatz im GHD-Sektor, historische Entwicklung, Projektionen und Trendfehler

elec com															
EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	2.23														
1984	2.39														
1985	2.48														
1986	2.57														
1987	2.68														
1988	2.82														
1989	2.92														
1990	3.02	3.03													
1991	3.08	3.08	3.09												
1992	3.06	3.20	3.11	3.12											
1993	3.18	3.24	3.17	3.17	3.12										
1994	3.29	3.30	3.23	3.20	3.25	3.30									
1995	3.43	3.38	3.29	3.26	3.28	3.38	3.41								
1996	3.53	3.45	3.36	3.31	3.31	3.39	3.50	3.56							
1997	3.70	3.52	3.42	3.37	3.33	3.43	3.52	3.58	3.63						
1998	3.88	3.60	3.47	3.42	3.36	3.47	3.58	3.68	3.74	3.76					
1999	3.97	3.68	3.53	3.44	3.38	3.50	3.64	3.74	3.81	3.88	3.90				
2000	4.17	3.76	3.59	3.48	3.40	3.54	3.69	3.79	3.89	3.95	3.99	4.12			
2001	4.31	3.84	3.64	3.52	3.42	3.58	3.74	3.84	3.96	4.02	4.12	4.22	4.31		
2002	4.39	3.92	3.69	3.57	3.45	3.62	3.78	3.89	4.02	4.09	4.25	4.29	4.43	4.35	
2003	4.32	4.01	3.75	3.60	3.47	3.66	3.83	3.94	4.07	4.15	4.36	4.44	4.49	4.37	
2004	4.42	4.10	3.79	3.61	3.49	3.70	3.88	3.99	4.12	4.21	4.47	4.57	4.62	4.51	
2005		4.20	3.84	3.63	3.52	3.75	3.92	4.05	4.18	4.28	4.58	4.70	4.73	4.67	
Steigung in %	3.9%	2.5%	1.8%	1.3%	0.9%	1.2%	1.5%	1.6%	1.8%	1.9%	3.0%	2.9%	2.4%	2.5%	
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-0.2%													
1992		-0.2%	-0.3%												
1993		-0.5%	-0.6%	-0.3%											
1994		-0.7%	-0.7%	-0.5%	0.1%										
1995		-0.8%	-0.9%	-0.7%	-0.2%	-0.1%									
1996		-0.9%	-1.0%	-0.9%	-0.5%	-0.5%	-0.1%								
1997		-1.1%	-1.2%	-1.1%	-0.8%	-0.7%	-0.4%	-0.3%							
1998		-1.3%	-1.5%	-1.3%	-1.1%	-1.0%	-0.6%	-0.3%	0.0%						
1999		-1.3%	-1.6%	-1.6%	-1.4%	-1.2%	-0.7%	-0.5%	-0.1%	0.0%					
2000		-1.5%	-1.8%	-1.9%	-1.7%	-1.5%	-1.0%	-0.7%	-0.3%	-0.1%	-0.1%				
2001		-1.7%	-2.1%	-2.1%	-2.1%	-1.8%	-1.2%	-1.0%	-0.4%	-0.3%	0.0%	-0.1%			
2002		-1.7%	-2.2%	-2.3%	-2.2%	-1.9%	-1.4%	-1.1%	-0.6%	-0.4%	0.0%	-0.2%	0.0%		
2003		-1.8%	-2.3%	-2.5%	-2.5%	-2.1%	-1.5%	-1.3%	-0.7%	-0.6%	0.0%	-0.1%	-0.2%	-0.3%	
2004		-1.8%	-2.5%	-2.7%	-2.7%	-2.3%	-1.7%	-1.5%	-0.9%	-0.7%	0.0%	0.0%	-0.1%	-0.2%	
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.2%													
1992		-2.2%	-3.0%												
1993		-4.5%	-4.9%	-2.3%											
1994		-6.0%	-6.4%	-4.7%	0.5%										
1995		-7.1%	-7.7%	-6.0%	-1.9%	-1.2%									
1996		-8.1%	-9.0%	-7.6%	-4.2%	-4.1%	-0.5%								
1997		-9.1%	-10.1%	-9.1%	-6.6%	-5.9%	-3.0%	-2.4%							
1998		-10.0%	-11.5%	-10.4%	-8.8%	-7.6%	-4.4%	-2.8%	-0.1%						
1999		-10.6%	-12.6%	-12.5%	-11.0%	-9.5%	-5.8%	-4.1%	-1.1%	0.0%					
2000		-11.4%	-13.8%	-14.0%	-13.0%	-11.0%	-7.2%	-5.6%	-2.0%	-1.0%	-0.5%				
2001		-11.9%	-14.9%	-15.4%	-14.9%	-12.7%	-8.6%	-6.9%	-3.1%	-2.0%	-0.3%	-0.5%			
2002		-12.4%	-16.0%	-16.7%	-16.4%	-14.1%	-9.9%	-8.3%	-4.1%	-2.9%	0.2%	-1.4%	-0.1%		
2003		-12.9%	-17.1%	-18.1%	-18.1%	-15.4%	-11.2%	-9.6%	-5.5%	-4.2%	0.1%	-0.8%	-1.3%	-2.2%	
2004		-13.1%	-18.3%	-20.0%	-19.7%	-16.6%	-12.4%	-10.7%	-6.8%	-5.3%	-0.1%	-0.3%	-1.0%	-1.5%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 4-10: Endenergieeinsatz im GHD-Sektor, historische Entwicklung, Projektionen und Trendfehler

fe com EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	2.23														
1984	2.39														
1985	2.48														
1986	2.57														
1987	2.68														
1988	2.82														
1989	2.92														
1990	3.02	3.03													
1991	3.08	3.08	3.09												
1992	3.06	3.20	3.11	3.12											
1993	3.18	3.24	3.17	3.17	3.12										
1994	3.29	3.30	3.23	3.20	3.25	3.30									
1995	3.43	3.38	3.29	3.26	3.28	3.38	3.41								
1996	3.53	3.45	3.36	3.31	3.31	3.39	3.50	3.56							
1997	3.70	3.52	3.42	3.37	3.33	3.43	3.52	3.58	3.63						
1998	3.88	3.60	3.47	3.42	3.36	3.47	3.58	3.68	3.74	3.76					
1999	3.97	3.68	3.53	3.44	3.38	3.50	3.64	3.74	3.81	3.88	3.90				
2000	4.17	3.76	3.59	3.48	3.40	3.54	3.69	3.79	3.89	3.95	3.99	4.12			
2001	4.31	3.84	3.64	3.52	3.42	3.58	3.74	3.84	3.96	4.02	4.12	4.22	4.31		
2002	4.39	3.92	3.69	3.57	3.45	3.62	3.78	3.89	4.02	4.09	4.25	4.29	4.43	4.35	
2003	4.32	4.01	3.75	3.60	3.47	3.66	3.83	3.94	4.07	4.15	4.36	4.44	4.49	4.37	
2004	4.42	4.10	3.79	3.61	3.49	3.70	3.88	3.99	4.12	4.21	4.47	4.57	4.62	4.51	
2005		4.20	3.84	3.63	3.52	3.75	3.92	4.05	4.18	4.28	4.58	4.70	4.73	4.67	
Steigung in %	3.9%	2.5%	1.8%	1.3%	0.9%	1.2%	1.5%	1.6%	1.8%	1.9%	3.0%	2.9%	2.4%	2.5%	
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991			-0.2%												
1992			-0.2%	-0.3%											
1993			-0.5%	-0.6%	-0.3%										
1994			-0.7%	-0.7%	-0.5%	0.1%									
1995			-0.8%	-0.9%	-0.7%	-0.2%	-0.1%								
1996			-0.9%	-1.0%	-0.9%	-0.5%	-0.5%	-0.1%							
1997			-1.1%	-1.2%	-1.1%	-0.8%	-0.7%	-0.4%	-0.3%						
1998			-1.3%	-1.5%	-1.3%	-1.1%	-1.0%	-0.6%	-0.3%	0.0%					
1999			-1.3%	-1.6%	-1.6%	-1.4%	-1.2%	-0.7%	-0.5%	-0.1%	0.0%				
2000			-1.5%	-1.8%	-1.9%	-1.7%	-1.5%	-1.0%	-0.7%	-0.3%	-0.1%	-0.1%			
2001			-1.7%	-2.1%	-2.1%	-2.1%	-1.8%	-1.2%	-1.0%	-0.4%	-0.3%	0.0%	-0.1%		
2002			-1.7%	-2.2%	-2.3%	-2.2%	-1.9%	-1.4%	-1.1%	-0.6%	-0.4%	0.0%	-0.2%	0.0%	
2003			-1.8%	-2.3%	-2.5%	-2.5%	-2.1%	-1.5%	-1.3%	-0.7%	-0.6%	0.0%	-0.1%	-0.2%	-0.3%
2004			-1.8%	-2.5%	-2.7%	-2.7%	-2.3%	-1.7%	-1.5%	-0.9%	-0.7%	0.0%	0.0%	-0.1%	-0.2%
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991			-2.2%												
1992			-2.2%	-3.0%											
1993			-4.5%	-4.9%	-2.3%										
1994			-6.0%	-6.4%	-4.7%	0.5%									
1995			-7.1%	-7.7%	-6.0%	-1.9%	-1.2%								
1996			-8.1%	-9.0%	-7.6%	-4.2%	-4.1%	-0.5%							
1997			-9.1%	-10.1%	-9.1%	-6.6%	-5.9%	-3.0%	-2.4%						
1998			-10.0%	-11.5%	-10.4%	-8.8%	-7.6%	-4.4%	-2.8%	-0.1%					
1999			-10.6%	-12.6%	-12.5%	-11.0%	-9.5%	-5.8%	-4.1%	-1.1%	0.0%				
2000			-11.4%	-13.8%	-14.0%	-13.0%	-11.0%	-7.2%	-5.6%	-2.0%	-1.0%	-0.5%			
2001			-11.9%	-14.9%	-15.4%	-14.9%	-12.7%	-8.6%	-6.9%	-3.1%	-2.0%	-0.3%	-0.5%		
2002			-12.4%	-16.0%	-16.7%	-16.4%	-14.1%	-9.9%	-8.3%	-4.1%	-2.9%	0.2%	-1.4%	-0.1%	
2003			-12.9%	-17.1%	-18.1%	-18.1%	-15.4%	-11.2%	-9.6%	-5.5%	-4.2%	0.1%	-0.8%	-1.3%	-2.2%
2004			-13.1%	-18.3%	-20.0%	-19.7%	-16.6%	-12.4%	-10.7%	-6.8%	-5.3%	-0.1%	-0.3%	-1.0%	-1.5%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-5 Daten Industrie

A-5.1 Daten der AEOs 83 bis 04

Tabelle A 5-1: Brennstoffeinsatz in der Industrie, historische Entwicklung von 1983 bis 2004 und Projektionen

	AEO/NER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
Industrial Sector Fuel Consumption Including Autoproduction (Final Energy)																							
EJ																							
1981																							
1982																							
1983		17.64	17.83	17.78																			
1984		19.30	19.30	20.07	19.40																		
1985		18.60	19.47	20.44	19.32	18.48	18.53																
1986		18.18	19.74	20.86	19.84	18.35	18.18	18.23															
1987		19.15	20.01	21.66	20.10	18.94	18.66	19.28															
1988		20.04	20.23	22.34	20.50	19.11	18.96	19.65	20.13														
1989		20.12	20.31	22.67	20.53	19.02	19.53	19.66	20.37	20.34													
1990		20.65	20.44	23.00	20.53	19.16	19.90	19.84	20.82	20.37	20.34												
1991		20.34					20.15	19.99		20.18	20.39	20.61	20.40	20.67									
1992		21.24					20.39	20.07		20.37	20.87	20.40	20.27	20.27									
1993		21.15					20.62	20.09		20.53	21.27	21.09	20.35	21.11									
1994		21.66					20.71	20.10		20.67	21.49	21.98	21.25	21.19									
1995		21.88	20.55	24.01	19.96	19.01	20.75	20.09	22.01	20.91	21.82	22.43	21.97	21.95	21.86								
1996		22.57					20.11	20.11		21.17	21.93	22.72	22.31	22.27	22.34	22.08							
1997		22.82					20.18	20.11		21.47	21.99	23.00	22.46	22.61	22.43	22.44	22.96	22.88					
1998		22.39					20.25	20.18		21.71	22.09	23.29	22.64	22.87	22.94	22.56	23.28	22.80	22.84				
1999		22.14					20.37	20.25		21.96	22.17	23.55	22.95	23.14	23.22	23.05	23.59	22.84	22.40	22.72			
2000		22.06					20.37	20.25		21.96	22.17	23.55	22.95	23.14	23.33	23.44	24.03	23.25	22.40	22.54	23.04		
2001		21.28					20.51	20.51	22.63	22.19	22.24	23.71	23.23	23.35	23.38	23.72	24.18	23.78	22.63	22.77	22.74	22.22	
2002		21.33					19.29	20.99		22.19	22.29	23.84	23.47	23.49	23.53	23.88	24.31	24.08	22.77	23.08	21.44	20.99	21.07
2003		21.13								22.22	22.34	23.96	23.70	23.69	23.72	24.07	24.54	24.33	22.99	23.40	22.71	21.62	20.60
2004		21.76								22.21	22.39	24.06	24.03	23.94	24.34	24.67	24.46	23.37	23.70	23.35	21.88	20.88	
2005									22.93	22.18	22.39	24.17	24.30	24.26	24.16	24.54	24.86	23.75	24.02	23.64	22.06	20.88	
										22.21	22.48	24.28	24.51	24.44	24.42	25.13	24.86	24.10	24.27	23.96	22.10	21.52	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-2: Stromeinsatz in der Industrie, historische Entwicklung von 1983 bis 2004 und Projektionen

Residential Sector Electricity Consumption (Final Energy) - Actual and Projected Values ('83 - '04)

E)

	AER/MER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																								
1982																								
1983	2.70	2.70	2.70																					
1984	2.81	2.73	2.75	2.80																				
1985	2.86	2.80	2.83	2.81	2.85	2.85																		
1986	2.95	2.87	2.88	2.95	2.91	2.94	2.94																	
1987	3.06	2.94	2.94	3.03	2.98	3.11	3.06	2.94																
1988	3.21	3.02	3.01	3.10	3.07	3.20	3.18	3.22																
1989	3.26	3.10	3.08	3.18	3.17	3.27	3.20	3.21	3.26															
1990	3.33	3.19	3.18	3.26	3.26	3.34	3.27	3.33	3.34	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	
1991	3.44					3.42	3.34	3.42	3.46	3.46	3.46	3.45	3.40	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	
1992	3.37					3.50	3.42	3.50	3.50	3.50	3.50	3.51	3.38	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	
1993	3.58					3.58	3.49	3.58	3.54	3.62	3.59	3.43	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
1994	3.63					3.65	3.57	3.65	3.60	3.65	3.64	3.45	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	
1995	3.75					3.71	3.64	3.71	3.64	3.70	3.67	3.47	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	
1996	3.90					3.70	3.70	3.70	3.68	3.73	3.69	3.49	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	
1997	3.87					3.78	3.78	3.78	3.72	3.78	3.71	3.52	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	
1998	4.07					3.83	3.83	3.83	3.77	3.81	3.73	3.54	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	
1999	4.12					3.89	3.89	3.89	3.80	3.85	3.76	3.56	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	
2000	4.29					3.95	3.95	3.95	3.84	3.90	3.77	3.58	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	
2001	4.33					3.99	3.99	3.99	3.88	3.95	3.82	3.61	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	
2002	4.56					4.24	4.24	4.24	3.92	4.00	3.86	3.62	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	
2003	4.58								3.97	4.05	3.91	3.64	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	
2004	4.66								4.01	4.10	3.96	3.66	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	
2005								4.52	4.04	4.16	4.00	3.68	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-3: Direkte CO₂-Emissionen in der Industrie, historische Entwicklung von 1983 bis 2004 und Projektionen

CO ₂ Emissions of Industrial Sector Fuel Use -- Actual and Projected Values ('83 - '04)																								
CO ₂ Emissions of Industrial Sector Fuel Use million metric tons of carbon equivalent		AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1'981																								
1'982																								
1'983	923	928	927	932																				
1'984	1'036	1'011	1'043	1'014																				
1'985	990	1'042	1'083	1'027	985	987																		
1'986	963	1'058	1'111	1'047	976	964	966																	
1'987	1'004	1'066	1'145	1'054	997	978	1'009																	
1'988	1'054	1'079	1'183	1'075	1'008	992	1'031	1'054																
1'989	1'045	1'072	1'187	1'065	994	1'009	1'018	1'052	1'055															
1'990	1'063	1'075	1'199	1'062	998	1'023	1'021	1'072	1'048	1'086	999	1'024	1'026											
1'991	1'030				1'019	1'014			1'027	1'031	985	1'000	1'000											
1'992	1'089				1'051	1'038			1'055	1'075	1'000	991	1'045											
1'993	1'062				1'039	1'017			1'041	1'071	1'045	1'046	1'038											
1'994	1'078				1'036	1'009			1'038	1'074	1'058	1'063	1'073	1'086										
1'995	1'086	1'063	1'214	946	966	1'035	1'004	1'100	1'046	1'065	1'077	1'077	1'079	1'060										
1'996	1'122						1'014		1'066	1'099	1'085	1'090	1'092	1'110	1'077	1'096								
1'997	1'123						1'009		1'070	1'092	1'093	1'097	1'106	1'092	1'110	1'125	1'128							
1'998	1'091						1'000		1'067	1'085	1'102	1'104	1'117	1'119	1'145	1'127	1'124	1'128	1'099					
1'999	1'085						1'019		1'092	1'101	1'110	1'121	1'129	1'151	1'138	1'145	1'110	1'096	1'106	1'100				
2'000	1'068						1'009	1'110	1'080	1'088	1'113	1'130	1'136	1'156	1'150	1'166	1'131	1'065	1'106	1'100				
2'001	1'048						1'009	1'110	1'108	1'113	1'115	1'139	1'142	1'161	1'159	1'178	1'172	1'080	1'075	1'082	1'046			1'048
2'002	1'031						1'095	1'101	1'095	1'101	1'116	1'148	1'150	1'167	1'166	1'188	1'182	1'090	1'096	1'029	1'002			1'048
2'003	1'017						1'094	1'102	1'094	1'102	1'115	1'162	1'162	1'177	1'178	1'193	1'189	1'106	1'128	1'106	1'077	1'017		1'031
2'004	1'039						1'092	1'102	1'092	1'102	1'116	1'173	1'175	1'187	1'186	1'200	1'195	1'121	1'138	1'120	1'039	991		

Quelle:

AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-5.2 Detaildaten der AEOs 92 bis 04

Tabelle A 5-4: EDL pro Einheit des BIP in der Industrie, historische Entwicklung, Projektionen und Trendfehler

EDL Industrie/BIP														
Value added in synthetic real terms as share of GDP														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	0.62													
1984	0.53													
1985	0.53													
1986	0.56													
1987	0.57													
1988	0.54													
1989	0.56													
1990	0.57	0.78												
1991	0.58	0.76	0.70											
1992	0.56	0.77	0.68	0.70										
1993	0.53	0.78	0.69	0.70	0.67									
1994	0.52	0.78	0.69	0.71	0.68	0.70								
1995	0.52	0.78	0.69	0.71	0.67	0.69	0.61							
1996	0.53	0.79	0.70	0.71	0.67	0.68	0.61	0.62						
1997	0.52	0.78	0.70	0.70	0.67	0.68	0.61	0.62	0.62					
1998	0.52	0.79	0.71	0.70	0.67	0.68	0.61	0.62	0.62	0.62				
1999	0.53	0.79	0.72	0.70	0.67	0.67	0.61	0.61	0.61	0.60	0.60			
2000	0.53	0.79	0.72	0.70	0.67	0.67	0.62	0.61	0.60	0.60	0.58	0.62		
2001	0.54	0.79	0.72	0.70	0.67	0.67	0.62	0.61	0.60	0.59	0.57	0.60	0.59	
2002	0.54	0.79	0.73	0.70	0.66	0.67	0.62	0.62	0.60	0.60	0.57	0.60	0.56	0.56
2003	0.51	0.79	0.73	0.71	0.67	0.67	0.62	0.62	0.60	0.60	0.57	0.61	0.57	0.54
2004	0.48	0.79	0.73	0.71	0.67	0.67	0.62	0.62	0.60	0.60	0.56	0.61	0.57	0.54
2005		0.79	0.73	0.71	0.67	0.67	0.62	0.62	0.60	0.59	0.56	0.61	0.57	0.54
Steigung in %	-0.7%	0.2%	0.6%	0.0%	-0.1%	-0.3%	0.2%	0.0%	-0.5%	-0.4%	-0.9%	0.1%	-0.6%	-0.9%

CO2-gewichteter Trendfehler													
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-0.3%												
1992	0.5%	-0.3%											
1993	1.0%	0.1%	0.7%										
1994	1.4%	0.6%	1.2%	0.6%									
1995	1.8%	1.0%	1.4%	0.7%	0.0%								
1996	2.1%	1.5%	1.5%	0.7%	-0.3%	0.0%							
1997	2.3%	2.0%	1.6%	1.0%	0.0%	0.1%	0.4%						
1998	2.6%	2.5%	1.7%	1.2%	0.1%	0.5%	0.3%	0.1%					
1999	2.8%	2.9%	1.9%	1.3%	0.1%	0.9%	0.3%	-0.2%	-0.4%				
2000	3.1%	3.3%	2.1%	1.4%	0.2%	1.1%	0.5%	-0.4%	-0.5%	-0.6%			
2001	3.2%	3.5%	2.2%	1.4%	0.3%	1.3%	0.7%	-0.2%	-0.6%	-1.1%	-0.7%		
2002	3.4%	3.8%	2.4%	1.5%	0.4%	1.4%	0.9%	-0.1%	-0.3%	-0.9%	-0.4%	-1.0%	
2003	3.5%	4.1%	2.6%	1.7%	0.5%	1.7%	1.1%	-0.1%	-0.1%	-0.9%	0.0%	-0.7%	-0.8%
2004	3.7%	4.4%	2.9%	1.9%	0.7%	1.9%	1.4%	0.1%	0.0%	-1.0%	0.3%	-0.4%	-0.7%

Trendfehler													
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-1.0%												
1992	1.6%	-0.9%											
1993	3.0%	0.3%	2.1%										
1994	4.3%	1.7%	3.5%	1.7%									
1995	5.5%	3.1%	4.3%	2.2%	-0.1%								
1996	6.5%	4.6%	4.6%	2.2%	-1.0%	0.1%							
1997	7.1%	6.2%	5.0%	3.1%	0.1%	0.3%	1.3%						
1998	8.0%	7.9%	5.4%	3.7%	0.5%	1.4%	0.9%	0.3%					
1999	9.0%	9.2%	6.1%	4.2%	0.4%	2.7%	0.9%	-0.7%	-1.4%				
2000	10.0%	10.7%	7.0%	4.6%	0.7%	3.8%	1.5%	-1.3%	-1.6%	-1.9%			
2001	10.8%	12.0%	7.5%	4.7%	0.9%	4.3%	2.4%	-0.7%	-2.0%	-3.7%	-2.3%		
2002	11.6%	13.2%	8.2%	5.2%	1.3%	4.8%	3.2%	-0.4%	-1.0%	-3.2%	-1.3%	-3.6%	
2003	12.1%	14.3%	9.0%	5.8%	1.7%	5.7%	3.9%	-0.2%	-0.3%	-3.1%	0.2%	-2.3%	-2.9%
2004	12.6%	15.1%	9.9%	6.5%	2.3%	6.6%	4.9%	0.2%	-0.1%	-3.6%	1.1%	-1.4%	-2.2%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, BEA 2005, EERE 2007, eigene Berechnungen

Tabelle A 5-5: EDL in der Industrie, historische Entwicklung, Projektionen und Trendfehler

EDL industrie														
Value added in synthetic real terms (10 ¹² \$2000)														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	3.35													
1984	3.09													
1985	3.23													
1986	3.53													
1987	3.69													
1988	3.64													
1989	3.93													
1990	4.06	5.21												
1991	4.10	5.09	4.68											
1992	4.08	5.37	4.70	4.79										
1993	3.97	5.59	4.92	4.99	4.85									
1994	4.11	5.81	5.13	5.20	5.07	5.19								
1995	4.21	6.06	5.36	5.34	5.20	5.28	4.84							
1996	4.44	6.30	5.62	5.48	5.30	5.31	4.94	5.04						
1997	4.56	6.55	5.90	5.66	5.51	5.54	5.02	5.26	5.25					
1998	4.70	6.89	6.27	5.87	5.73	5.74	5.23	5.39	5.41	5.44				
1999	4.97	7.24	6.60	6.10	5.94	5.91	5.47	5.53	5.43	5.52	5.69			
2000	5.17	7.57	6.91	6.32	6.10	6.08	5.66	5.67	5.49	5.55	5.83	6.11		
2001	5.36	7.90	7.24	6.51	6.25	6.25	5.81	5.82	5.61	5.60	5.90	5.99	5.80	
2002	5.48	8.29	7.62	6.76	6.48	6.46	6.00	6.01	5.76	5.77	6.12	6.16	5.68	5.62
2003	5.28	8.66	7.99	7.04	6.75	6.69	6.22	6.19	5.90	5.94	6.30	6.49	5.97	5.54
2004	5.23	9.02	8.35	7.30	7.01	6.93	6.44	6.39	6.03	6.07	6.43	6.74	6.22	5.72
2005		9.46	8.71	7.56	7.24	7.19	6.67	6.61	6.26	6.22	6.62	7.01	6.36	5.93
Steigung in %	2.9%	5.7%	6.4%	4.4%	4.0%	3.5%	3.9%	3.3%	2.2%	2.1%	2.8%	3.3%	2.9%	2.0%

CO2-gewichteter Trendfehler													
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-1.7%												
1992	-1.0%	-0.8%											
1993	-0.6%	-0.3%	0.4%										
1994	-0.2%	0.2%	0.9%	0.6%									
1995	0.3%	0.8%	0.9%	0.5%	-0.3%								
1996	0.7%	1.5%	0.9%	0.3%	-1.0%	-0.2%							
1997	1.2%	2.3%	1.1%	0.8%	-0.5%	-0.5%	0.6%						
1998	2.0%	3.5%	1.4%	1.2%	-0.1%	0.1%	0.6%	0.2%					
1999	2.8%	4.4%	1.8%	1.5%	0.1%	0.7%	0.6%	-0.5%	-0.3%				
2000	3.5%	5.1%	2.2%	1.6%	0.2%	1.0%	0.6%	-0.9%	-0.8%	0.1%			
2001	4.0%	5.7%	2.3%	1.6%	0.3%	1.0%	0.7%	-0.9%	-1.2%	-0.3%	-1.2%		
2002	4.8%	6.6%	2.8%	2.0%	0.6%	1.3%	0.9%	-0.8%	-1.0%	0.1%	-1.1%	-1.2%	
2003	5.5%	7.5%	3.4%	2.5%	1.0%	1.8%	1.1%	-0.7%	-0.8%	0.3%	-0.2%	-0.5%	-1.0%
2004	6.2%	8.4%	3.8%	3.1%	1.4%	2.2%	1.5%	-0.7%	-0.8%	0.3%	0.2%	0.1%	-0.8%

Trendfehler													
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-5.1%												
1992	-2.8%	-2.4%											
1993	-1.7%	-0.8%	1.3%										
1994	-0.6%	0.7%	2.6%	1.8%									
1995	0.9%	2.4%	2.6%	1.5%	-1.0%								
1996	2.3%	4.5%	2.6%	0.8%	-3.0%	-0.6%							
1997	3.6%	7.0%	3.2%	2.3%	-1.5%	-1.5%	1.8%						
1998	6.3%	10.9%	4.3%	3.7%	-0.4%	0.2%	1.7%	0.5%					
1999	9.1%	13.9%	5.8%	4.9%	0.2%	2.2%	1.8%	-1.6%	-0.9%				
2000	11.3%	16.6%	7.2%	5.3%	0.6%	3.4%	2.0%	-2.8%	-2.7%	0.2%			
2001	13.5%	19.3%	7.8%	5.3%	1.0%	3.5%	2.2%	-3.0%	-4.1%	-1.0%	-4.2%		
2002	16.5%	22.7%	9.6%	6.9%	2.2%	4.5%	3.2%	-2.6%	-3.4%	0.5%	-3.6%	-4.2%	
2003	19.0%	25.9%	11.6%	8.8%	3.4%	6.1%	4.0%	-2.5%	-2.7%	1.2%	-0.8%	-1.6%	-3.6%
2004	21.3%	28.8%	13.2%	10.6%	4.8%	7.5%	5.1%	-2.5%	-2.6%	1.0%	0.9%	0.4%	-2.6%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-6: Brennstoffintensität bezogen auf die EDL in der Industrie, historische Entwicklung, Projektionen und Trendfehler

fuel edl industrie		Actual													
MJ/\$2000	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	5.26														
1984	6.24														
1985	5.76														
1986	5.16														
1987	5.19														
1988	5.51														
1989	5.12														
1990	5.08	4.06													
1991	4.96	4.00	4.42												
1992	5.21	3.89	4.48	4.25											
1993	5.33	3.81	4.40	4.25	4.37										
1994	5.28	3.70	4.28	4.17	4.33	4.21									
1995	5.20	3.60	4.18	4.11	4.24	4.23	4.56								
1996	5.08	3.48	4.05	4.07	4.21	4.22	4.55	4.56							
1997	5.01	3.35	3.90	3.97	4.10	4.14	4.49	4.43	4.34						
1998	4.77	3.21	3.72	3.86	3.99	4.05	4.41	4.37	4.22	4.12					
1999	4.45	3.06	3.57	3.76	3.90	3.94	4.29	4.35	4.28	4.06	3.97				
2000	4.26	2.94	3.43	3.68	3.82	3.85	4.19	4.27	4.33	4.08	3.90	3.72			
2001	3.97	2.82	3.29	3.61	3.76	3.77	4.11	4.18	4.29	4.07	3.91	3.58	3.62		
2002	3.89	2.69	3.15	3.50	3.65	3.67	4.02	4.09	4.22	3.99	3.82	3.68	3.80	3.73	
2003	4.00	2.58	3.01	3.41	3.55	3.58	3.91	3.99	4.15	3.93	3.77	3.60	3.67	3.72	
2004	4.16	2.48	2.89	3.33	3.46	3.49	3.81	3.89	4.08	3.91	3.74	3.51	3.55	3.65	
2005		2.38	2.79	3.24	3.37	3.40	3.71	3.80	3.97	3.87	3.66	3.42	3.47	3.63	
Steigung in %	-1.8%	-2.9%	-3.0%	-1.9%	-2.0%	-1.9%	-2.0%	-1.8%	-0.9%	-0.9%	-1.2%	-1.4%	-1.5%	-1.0%	

CO2-gewichteter Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991		0.3%													
1992		0.2%	0.9%												
1993		0.3%	1.1%	0.6%											
1994		0.3%	1.0%	0.7%	0.3%										
1995		0.2%	1.0%	0.9%	0.4%	0.6%									
1996		0.0%	0.8%	1.2%	0.7%	1.1%	0.4%								
1997		-0.3%	0.5%	1.1%	0.7%	1.2%	0.6%	-0.1%							
1998		-0.7%	0.0%	1.0%	0.5%	1.1%	0.7%	0.1%	-0.1%						
1999		-1.2%	-0.4%	0.9%	0.5%	1.0%	0.6%	0.4%	0.6%	0.1%					
2000		-1.4%	-0.7%	0.8%	0.5%	0.9%	0.5%	0.4%	1.2%	0.6%	0.1%				
2001		-1.8%	-1.0%	0.9%	0.6%	0.9%	0.5%	0.4%	1.4%	1.0%	0.5%	-0.3%			
2002		-2.1%	-1.4%	0.7%	0.4%	0.7%	0.5%	0.4%	1.5%	0.9%	0.5%	0.6%	1.3%		
2003		-2.4%	-1.8%	0.5%	0.2%	0.6%	0.3%	0.3%	1.5%	1.0%	0.6%	0.5%	0.9%	0.3%	
2004		-2.8%	-2.1%	0.4%	0.1%	0.5%	0.2%	0.2%	1.6%	1.3%	0.7%	0.4%	0.7%	0.3%	

Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991		1.4%													
1992		1.1%	4.3%												
1993		1.6%	5.1%	2.8%											
1994		1.3%	4.9%	3.3%	1.5%										
1995		1.0%	5.0%	4.4%	2.0%	2.9%									
1996		0.0%	3.9%	5.8%	3.5%	5.2%	2.0%								
1997		-1.4%	2.5%	5.6%	3.3%	5.7%	3.2%	-0.6%							
1998		-3.6%	-0.1%	5.0%	2.8%	5.6%	3.4%	0.5%	-0.6%						
1999		-6.0%	-1.9%	4.7%	2.6%	5.2%	2.9%	2.0%	3.1%	0.7%					
2000		-7.8%	-3.8%	4.4%	2.8%	4.8%	2.7%	2.3%	6.5%	3.3%	0.6%				
2001		-9.6%	-5.6%	4.6%	3.2%	4.8%	2.9%	2.3%	7.8%	5.2%	2.9%	-1.8%			
2002		-11.9%	-8.0%	3.7%	2.3%	4.1%	2.5%	2.1%	8.2%	5.3%	2.6%	3.1%	7.2%		
2003		-13.8%	-10.3%	3.0%	1.3%	3.5%	1.8%	1.6%	8.4%	5.9%	3.3%	2.7%	5.4%	1.5%	
2004		-15.6%	-12.0%	2.4%	0.7%	3.0%	1.1%	1.0%	8.8%	7.2%	4.2%	2.1%	3.9%	1.6%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-7: Brennstoffeinsatz in der Industrie, historische Entwicklung, Projektionen und Trendfehler

fe ind fuel EJ	Actual AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	17.64													
1984	19.30													
1985	18.60													
1986	18.18													
1987	19.15													
1988	20.04													
1989	20.12													
1990	20.65	21.13												
1991	20.34	20.39	20.66											
1992	21.24	20.87	21.09	20.35										
1993	21.15	21.27	21.66	21.25	21.19									
1994	21.66	21.49	21.98	21.66	21.95	21.86								
1995	21.88	21.82	22.43	21.97	22.04	22.34	22.08							
1996	22.57	21.93	22.72	22.31	22.27	22.43	22.44	22.96						
1997	22.82	21.99	23.00	22.46	22.61	22.94	22.56	23.28	22.80					
1998	22.39	22.09	23.29	22.64	22.87	23.22	23.05	23.59	22.84	22.40				
1999	22.14	22.17	23.55	22.95	23.14	23.33	23.44	24.03	23.25	22.40	22.54			
2000	22.06	22.24	23.71	23.23	23.35	23.38	23.72	24.18	23.78	22.63	22.77	22.74		
2001	21.28	22.29	23.84	23.47	23.49	23.53	23.88	24.31	24.08	22.77	23.08	21.44	20.99	
2002	21.33	22.34	23.96	23.70	23.69	23.72	24.07	24.54	24.33	22.99	23.40	22.71	21.62	20.99
2003	21.13	22.39	24.06	24.03	23.94	23.93	24.34	24.67	24.46	23.37	23.79	23.35	21.88	20.60
2004	21.76	22.39	24.17	24.30	24.26	24.18	24.54	24.86	24.61	23.73	24.02	23.64	22.06	20.88
2005		22.48	24.28	24.51	24.44	24.42	24.71	25.13	24.86	24.10	24.27	23.96	22.10	21.52
Steigung in %	0.4%	0.6%	1.2%	1.4%	1.2%	1.0%	1.2%	1.0%	1.2%	1.1%	1.3%	1.7%	1.3%	0.9%

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-0.8%												
1992	-0.4%	0.4%											
1993	0.0%	0.9%	0.9%										
1994	0.1%	1.2%	1.2%	0.7%									
1995	0.4%	1.5%	1.5%	0.7%	0.4%								
1996	0.5%	1.8%	1.8%	0.9%	0.4%	0.3%							
1997	0.5%	2.0%	1.8%	1.2%	0.8%	0.3%	0.2%						
1998	0.5%	2.1%	1.9%	1.3%	1.0%	0.7%	0.4%	0.0%					
1999	0.5%	2.3%	2.1%	1.5%	1.0%	1.0%	0.7%	0.3%	0.0%				
2000	0.5%	2.3%	2.2%	1.5%	1.0%	1.1%	0.8%	0.6%	0.1%	0.1%			
2001	0.5%	2.3%	2.4%	1.6%	1.1%	1.2%	0.8%	0.8%	0.2%	0.3%	-1.1%		
2002	0.5%	2.3%	2.4%	1.7%	1.1%	1.3%	1.0%	1.0%	0.3%	0.5%	-0.1%	0.5%	
2003	0.5%	2.3%	2.6%	1.8%	1.2%	1.4%	1.0%	1.0%	0.5%	0.8%	0.3%	0.7%	-0.4%
2004	0.4%	2.4%	2.8%	2.0%	1.4%	1.5%	1.1%	1.1%	0.8%	0.9%	0.5%	0.8%	-0.2%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-3.7%												
1992	-1.7%	1.8%											
1993	-0.1%	4.3%	4.1%										
1994	0.7%	5.6%	5.9%	3.3%									
1995	2.0%	7.5%	7.1%	3.5%	1.9%								
1996	2.2%	8.6%	8.6%	4.3%	2.1%	1.4%							
1997	2.2%	9.7%	9.0%	5.7%	4.1%	1.6%	1.1%						
1998	2.5%	10.8%	9.6%	6.6%	5.2%	3.6%	2.2%	-0.1%					
1999	2.6%	11.7%	10.8%	7.6%	5.4%	5.1%	3.9%	1.5%	-0.2%				
2000	2.6%	12.2%	11.9%	8.3%	5.4%	6.1%	4.3%	3.5%	0.5%	0.8%			
2001	2.6%	12.6%	12.8%	8.7%	5.8%	6.5%	4.6%	4.6%	0.9%	1.9%	-6.0%		
2002	2.6%	12.9%	13.6%	9.3%	6.4%	7.1%	5.3%	5.4%	1.6%	3.0%	-0.6%	2.8%	
2003	2.6%	13.0%	14.9%	10.2%	7.0%	8.0%	5.6%	5.7%	3.0%	4.5%	1.9%	3.8%	-2.1%
2004	2.3%	13.3%	15.9%	11.4%	7.9%	8.7%	6.1%	6.1%	4.4%	5.2%	2.9%	4.3%	-1.0%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-8: Stromintensität bezogen auf die EDL in der Industrie, historische Entwicklung, Projektionen und Trendfehler

elec edl industrie MJ/\$2000		Actual													
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		0.83													
1984		0.97													
1985		0.93													
1986		0.85													
1987		0.84													
1988		0.89													
1989		0.85													
1990		0.84	0.65												
1991		0.83	0.65	0.72											
1992		0.86	0.64	0.74	0.72										
1993		0.89	0.61	0.70	0.72	0.73									
1994		0.88	0.60	0.69	0.71	0.71	0.69								
1995		0.87	0.60	0.68	0.70	0.70	0.68	0.75							
1996		0.84	0.59	0.66	0.69	0.69	0.69	0.75	0.72						
1997		0.82	0.58	0.65	0.68	0.68	0.67	0.74	0.71	0.71					
1998		0.81	0.56	0.63	0.67	0.66	0.66	0.73	0.70	0.69	0.69				
1999		0.77	0.55	0.62	0.65	0.65	0.64	0.72	0.70	0.69	0.68	0.67			
2000		0.74	0.54	0.61	0.64	0.64	0.63	0.71	0.69	0.69	0.69	0.67	0.63		
2001		0.65	0.54	0.59	0.63	0.63	0.62	0.70	0.69	0.68	0.67	0.62	0.62		
2002		0.64	0.52	0.58	0.62	0.61	0.60	0.69	0.68	0.68	0.67	0.65	0.60	0.59	
2003		0.69	0.51	0.56	0.61	0.60	0.59	0.68	0.67	0.67	0.67	0.64	0.59	0.59	
2004		0.70	0.51	0.55	0.60	0.59	0.58	0.67	0.66	0.66	0.67	0.63	0.58	0.63	
2005			0.49	0.54	0.58	0.58	0.57	0.66	0.65	0.65	0.66	0.62	0.57	0.58	
Steigung in %	-1.7%	-1.7%	-2.0%	-1.5%	-1.6%	-1.8%	-1.3%	-1.1%	-0.9%	-0.6%	-1.3%	-1.9%	-1.5%	-0.6%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.4%												
1992	0.5%	0.5%											
1993	0.3%	0.2%	0.2%										
1994	0.4%	0.3%	0.4%	-0.1%									
1995	0.5%	0.3%	0.6%	0.0%	0.2%								
1996	0.6%	0.4%	0.6%	0.1%	0.6%	0.2%							
1997	0.7%	0.4%	0.7%	0.2%	0.6%	0.4%	0.0%						
1998	0.6%	0.3%	0.7%	0.2%	0.5%	0.4%	0.1%	0.0%					
1999	0.6%	0.2%	0.7%	0.2%	0.5%	0.5%	0.3%	0.3%	0.1%				
2000	0.6%	0.3%	0.7%	0.2%	0.4%	0.6%	0.4%	0.5%	0.4%	0.1%			
2001	0.6%	0.2%	0.8%	0.2%	0.4%	0.6%	0.5%	0.7%	0.5%	0.3%	-0.1%		
2002	0.6%	0.1%	0.7%	0.2%	0.4%	0.7%	0.6%	0.7%	0.6%	0.3%	-0.1%	-0.3%	
2003	0.6%	0.0%	0.7%	0.2%	0.4%	0.7%	0.6%	0.8%	0.7%	0.3%	-0.1%	-0.1%	0.2%
2004	0.6%	0.0%	0.7%	0.2%	0.3%	0.7%	0.7%	0.8%	0.9%	0.3%	-0.1%	-0.1%	0.3%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	3.6%												
1992	4.3%	4.3%											
1993	2.0%	1.8%	1.9%										
1994	3.0%	2.1%	3.5%	-0.4%									
1995	4.1%	2.7%	4.5%	0.0%	1.8%								
1996	4.7%	3.1%	5.0%	0.6%	4.7%	1.3%							
1997	5.5%	3.2%	6.0%	1.4%	4.8%	2.9%	0.0%						
1998	5.0%	2.1%	5.9%	1.5%	4.3%	2.9%	0.9%	0.2%					
1999	4.7%	2.0%	5.9%	1.4%	4.2%	3.8%	2.5%	2.2%	0.6%				
2000	5.2%	2.3%	6.1%	1.4%	3.4%	5.0%	3.0%	4.3%	3.0%	0.8%			
2001	5.6%	2.2%	6.8%	2.1%	3.7%	5.6%	4.7%	6.0%	4.4%	2.7%	-0.7%		
2002	5.4%	1.1%	6.2%	1.9%	3.5%	6.1%	5.2%	6.7%	5.2%	2.6%	-1.0%	-2.8%	
2003	5.2%	0.2%	6.3%	1.8%	3.2%	6.2%	5.4%	6.8%	6.4%	2.7%	-1.1%	-0.9%	1.7%
2004	5.3%	-0.3%	6.4%	1.8%	3.1%	6.4%	5.9%	7.3%	7.9%	3.1%	-0.9%	-0.7%	2.8%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-9: Stromeinsatz in der Industrie, historische Entwicklung, Projektionen und Trendfehler

fe ind elec															
EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	2.79														
1984	3.02														
1985	3.01														
1986	2.99														
1987	3.09														
1988	3.23														
1989	3.33														
1990	3.40	3.38													
1991	3.41	3.33	3.39												
1992	3.50	3.45	3.46	3.45											
1993	3.52	3.43	3.45	3.58	3.53										
1994	3.63	3.51	3.52	3.69	3.60	3.58									
1995	3.65	3.62	3.62	3.75	3.62	3.62	3.65								
1996	3.72	3.70	3.72	3.78	3.63	3.66	3.69	3.65							
1997	3.74	3.80	3.83	3.85	3.72	3.73	3.73	3.73	3.72						
1998	3.78	3.89	3.95	3.90	3.80	3.78	3.80	3.78	3.76	3.77					
1999	3.81	4.00	4.06	3.98	3.85	3.81	3.93	3.86	3.77	3.77	3.83				
2000	3.83	4.11	4.19	4.05	3.88	3.81	4.04	3.90	3.81	3.81	3.88	3.86			
2001	3.47	4.23	4.29	4.11	3.92	3.85	4.08	3.98	3.88	3.82	3.92	3.68	3.58		
2002	3.50	4.35	4.39	4.18	3.99	3.90	4.16	4.06	3.94	3.89	3.99	3.71	3.35	3.58	
2003	3.63	4.45	4.48	4.27	4.07	3.96	4.24	4.11	3.96	3.98	4.04	3.83	3.52	3.52	
2004	3.68	4.56	4.58	4.36	4.16	4.02	4.32	4.20	4.00	4.06	4.06	3.91	3.61	3.61	
2005		4.67	4.67	4.41	4.23	4.07	4.39	4.27	4.07	4.13	4.12	4.00	3.66	3.71	
Steigung in %	0.5%	2.8%	2.9%	2.0%	1.6%	1.2%	2.2%	1.9%	1.2%	1.4%	1.3%	1.2%	1.2%	1.4%	

CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-0.2%													
1992		0.2%	0.2%												
1993		0.0%	0.1%	0.4%											
1994		0.3%	0.4%	0.8%	0.2%										
1995		0.6%	0.6%	0.9%	0.2%	0.1%									
1996		0.9%	0.9%	0.9%	0.2%	0.2%	0.1%								
1997		1.2%	1.3%	1.2%	0.5%	0.4%	0.2%	0.2%							
1998		1.4%	1.6%	1.3%	0.7%	0.5%	0.4%	0.3%	0.1%						
1999		1.7%	2.0%	1.5%	0.8%	0.5%	0.7%	0.5%	0.1%	0.0%					
2000		2.1%	2.3%	1.7%	0.8%	0.5%	1.0%	0.6%	0.2%	0.0%	0.1%				
2001		2.2%	2.4%	1.7%	0.8%	0.5%	1.0%	0.8%	0.3%	0.0%	0.2%	-0.5%			
2002		2.6%	2.7%	1.8%	1.0%	0.6%	1.2%	1.0%	0.4%	0.2%	0.3%	-0.5%	-0.8%		
2003		2.9%	3.0%	2.1%	1.2%	0.8%	1.4%	1.1%	0.5%	0.4%	0.4%	-0.2%	-0.3%	-0.2%	
2004		3.1%	3.2%	2.3%	1.4%	0.9%	1.6%	1.3%	0.5%	0.6%	0.5%	0.0%	0.0%	0.0%	

Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-1.7%													
1992		1.4%	1.8%												
1993		0.3%	1.0%	3.3%											
1994		2.4%	2.8%	6.2%	1.4%										
1995		5.0%	5.1%	7.3%	1.6%	0.8%									
1996		7.1%	7.8%	7.7%	1.5%	1.5%	0.7%								
1997		9.4%	10.4%	9.4%	3.7%	3.2%	1.4%	1.7%							
1998		11.7%	13.3%	10.5%	5.3%	3.9%	3.1%	2.6%	0.7%						
1999		14.2%	16.2%	12.1%	6.4%	4.4%	6.0%	4.4%	0.5%	-0.3%					
2000		17.1%	19.3%	13.7%	6.8%	4.0%	8.6%	5.1%	1.4%	0.3%	1.0%				
2001		19.9%	21.8%	15.1%	7.6%	4.7%	9.4%	7.0%	2.8%	0.1%	1.7%	-4.8%			
2002		22.7%	24.0%	16.4%	8.9%	5.7%	10.9%	8.5%	3.9%	1.6%	3.1%	-4.6%	-6.9%		
2003		25.2%	26.2%	18.6%	10.7%	6.8%	12.7%	9.6%	4.2%	3.6%	3.9%	-1.9%	-2.5%	-2.0%	
2004		27.7%	28.4%	20.4%	12.6%	8.0%	14.3%	11.4%	4.6%	5.1%	4.1%	-0.1%	-0.3%	0.2%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 5-10: Endenergieeinsatz in der Industrie, historische Entwicklung, Projektionen und Trendfehler

fe ind EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	20.43														
1984	22.32														
1985	21.61														
1986	21.17														
1987	22.24														
1988	23.27														
1989	23.46														
1990	24.05	24.51													
1991	23.75	23.73	24.04												
1992	24.74	24.32	24.55	23.80											
1993	24.66	24.70	25.11	24.83	24.72										
1994	25.29	25.00	25.50	25.35	25.54	25.44									
1995	25.53	25.44	26.05	25.71	25.66	25.95	25.73								
1996	26.29	25.64	26.44	26.09	25.90	26.09	26.13	26.61							
1997	26.56	25.79	26.83	26.31	26.33	26.67	26.29	27.01	26.52						
1998	26.18	25.99	27.23	26.55	26.67	27.00	26.86	27.36	26.59	26.17					
1999	25.95	26.17	27.61	26.93	26.99	27.14	27.37	27.89	27.02	26.18	26.37				
2000	25.89	26.36	27.90	27.28	27.23	27.19	27.76	28.08	27.59	26.44	26.65	26.60			
2001	24.75	26.52	28.14	27.59	27.41	27.38	27.96	28.29	27.96	26.59	27.01	25.12	24.57		
2002	24.82	26.68	28.35	27.87	27.67	27.62	28.23	28.60	28.26	26.88	27.39	26.42	24.97	24.57	
2003	24.76	26.84	28.54	28.31	28.01	27.89	28.58	28.78	28.43	27.35	27.83	27.18	25.40	24.12	
2004	25.43	26.95	28.75	28.66	28.41	28.20	28.86	29.05	28.61	27.78	28.08	27.55	25.67	24.49	
2005		27.16	28.95	28.92	28.67	28.50	29.10	29.40	28.93	28.24	28.39	27.96	25.76	25.23	
Steigung in %	0.4%	0.9%	1.5%	1.5%	1.2%	1.0%	1.3%	1.1%	1.2%	1.2%	1.3%	1.6%	1.3%	1.0%	
CO2-gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-1.1%													
1992		-0.5%	0.6%												
1993		0.0%	1.3%	1.3%											
1994		0.3%	1.7%	2.0%	1.0%										
1995		0.8%	2.4%	2.4%	1.1%	0.6%									
1996		1.0%	2.8%	2.8%	1.3%	0.7%	0.4%								
1997		1.1%	3.2%	3.0%	1.8%	1.3%	0.5%	0.4%							
1998		1.2%	3.6%	3.1%	2.1%	1.6%	1.1%	0.7%	0.0%						
1999		1.3%	3.9%	3.5%	2.3%	1.6%	1.6%	1.2%	0.4%	-0.1%					
2000		1.4%	4.0%	3.7%	2.5%	1.6%	2.0%	1.3%	1.0%	0.1%	0.2%				
2001		1.5%	4.1%	3.9%	2.5%	1.7%	2.1%	1.4%	1.3%	0.2%	0.5%	-1.7%			
2002		1.6%	4.2%	4.1%	2.7%	1.8%	2.2%	1.7%	1.5%	0.5%	0.9%	-0.4%	0.4%		
2003		1.7%	4.3%	4.5%	3.0%	2.0%	2.5%	1.8%	1.6%	0.9%	1.3%	0.4%	0.8%	-0.6%	
2004		1.7%	4.5%	4.8%	3.4%	2.3%	2.8%	2.0%	1.7%	1.3%	1.5%	0.7%	1.1%	-0.2%	
Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-3.5%													
1992		-1.3%	1.8%												
1993		0.0%	3.9%	4.0%											
1994		0.9%	5.2%	5.9%	3.0%										
1995		2.4%	7.2%	7.1%	3.2%	1.8%									
1996		2.9%	8.5%	8.4%	3.9%	2.0%	1.3%								
1997		3.2%	9.8%	9.1%	5.4%	4.0%	1.6%	1.2%							
1998		3.7%	11.1%	9.7%	6.4%	5.0%	3.5%	2.3%	0.0%						
1999		4.2%	12.4%	11.0%	7.4%	5.2%	5.2%	3.9%	1.3%	-0.2%					
2000		4.7%	13.2%	12.2%	8.1%	5.2%	6.5%	4.4%	3.2%	0.5%	0.8%				
2001		5.0%	13.9%	13.1%	8.5%	5.6%	6.9%	4.9%	4.3%	0.8%	1.9%	-5.8%			
2002		5.4%	14.5%	14.0%	9.3%	6.3%	7.7%	5.8%	5.2%	1.6%	3.0%	-1.2%	1.4%		
2003		5.7%	14.9%	15.5%	10.3%	7.0%	8.7%	6.1%	5.5%	3.1%	4.4%	1.4%	2.9%	-2.1%	
2004		5.9%	15.5%	16.6%	11.6%	7.9%	9.5%	6.9%	5.9%	4.5%	5.1%	2.5%	3.7%	-0.9%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-6 Daten Verkehr

A-6.1 Daten der AEOs 83 bis 04

Tabelle A 6-1: Kraftstoffeinsatz im Verkehr, historische Entwicklung von 1983 bis 2004 und Projektionen

	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																							
1982																							
1983	20,15	20,01	20,07																				
1984	20,85	20,56	20,42																				
1985	21,13	20,85	20,24	21,09	21,20	21,20																	
1986	21,91	21,23	20,01	20,84	21,63	21,90	21,89																
1987	22,58	21,50	20,00	21,07	21,93	22,42	22,41																
1988	23,49	21,57	20,05	21,10	21,95	22,67	23,02	23,23															
1989	23,74	21,58	20,15	21,13	21,78	22,78	23,45	23,22	23,41														
1990	23,71	21,58	20,30	21,15	21,84	22,87	23,61	23,59	23,29	23,29	23,72	23,74	23,73										
1991	23,28					23,01	23,63		22,78	22,92	23,38	23,92	23,30										
1992	23,64					23,17	23,70		23,12	23,17	23,73	24,35	23,65										
1993	24,09					23,25	23,69		23,34	23,71	23,99	24,86	23,99										
1994	24,74					23,23	23,71		23,51	24,12	24,61	25,33	24,48										
1995	25,22	21,83	21,19	21,42	21,45	23,15	23,74	24,51	23,74	24,49	25,19	25,73	25,29	24,61	24,89								
1996	25,80					23,83	23,83		24,06	24,68	25,60	25,99	25,45	25,19	25,65	25,32							
1997	26,12					23,90	23,90		24,40	24,87	26,00	26,34	25,96	25,80	26,74	26,08	26,04						
1998	26,69					24,02	24,02		24,73	25,14	26,43	26,69	26,40	26,19	27,30	26,74	26,28	26,36					
1999	27,48					24,23	24,23		25,06	25,41	26,79	27,05	26,80	26,62	27,89	27,28	26,83	27,16	26,94				
2000	28,11					24,48	24,48		25,38	25,72	27,10	27,48	27,18	27,05	28,52	28,13	27,38	27,69	27,73	27,94			
2001	27,66			22,14	23,53	24,48	24,48	25,64	25,82	26,10	27,52	27,83	27,46	27,42	29,04	29,27	29,16	28,89	28,31	28,82	28,31	28,82	28,15
2002	28,09					28,09	28,09		26,18	26,46	27,85	28,19	27,83	27,76	29,50	29,85	29,77	29,50	29,81	29,59	28,65	28,27	28,68
2003	28,32					28,32	28,32		26,49	26,77	28,22	28,58	28,20	28,08	30,44	30,39	30,06	30,41	30,50	29,81	29,59	28,65	28,27
2004	28,95					28,95	28,95		26,77	27,03	28,62	28,90	28,59	28,43	30,02	30,02	30,39	30,73	31,01	31,16	29,84	29,61	29,61
2005								26,89	27,08	27,37	28,93	29,23	28,97	28,83	31,00	31,62	31,63	31,35	31,65	31,85	30,52	30,51	30,51

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-6.2 Detaildaten der AEOs 92 bis 04

Tabelle A 6-2: EDL pro Einheit des BIP im Pkw-Verkehr, historische Entwicklung, Projektionen und Trendfehler

EDL Pkw / BIP miles/1,000 \$	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	282.36													
1984	274.16													
1985	272.04													
1986	271.96													
1987	275.26													
1988	279.19													
1989	279.04													
1990	280.13	297.46												
1991	284.03	301.52	303.20											
1992	284.60	307.06	309.66	306.54										
1993	282.82	308.57	308.88	309.60	312.87									
1994	278.34	310.96	316.66	312.12	317.34	276.98								
1995	278.68	312.95	318.61	317.66	319.83	273.95	280.61							
1996	275.70	314.82	320.06	321.91	319.57	270.53	275.77	287.96						
1997	271.54	314.12	321.54	325.94	325.16	264.56	276.43	283.97	278.73					
1998	267.80	313.02	319.35	328.01	326.78	258.95	269.83	280.46	272.53	280.55				
1999	261.95	310.53	317.37	328.16	330.19	254.26	263.37	276.49	268.62	277.37	260.32			
2000	258.10	309.67	317.03	332.62	332.89	250.36	258.69	273.21	268.25	279.03	249.22	244.15		
2001	260.97	308.09	315.40	334.46	335.46	246.92	256.05	271.51	268.50	280.75	248.18	248.41	251.38	
2002	261.45	307.67	312.45	334.14	337.59	241.95	251.73	267.87	266.01	279.74	247.07	249.11	254.44	255.90
2003	256.78	302.77	307.64	330.92	334.02	237.57	247.45	264.73	264.31	277.82	245.48	245.40	248.39	255.67
2004	251.74	302.43	309.43	333.18	334.82	233.14	243.87	261.82	262.93	276.45	244.23	243.10	243.69	256.38
2005		0.00	0.00	0.00	0.00	228.26	240.19	258.54	258.87	274.35	242.58	240.03	242.09	253.91
Steigung in %	-0.8%	-2.3%	-2.6%	-2.4%	-2.9%	-1.6%	-1.5%	-1.1%	-0.7%	-0.2%	-0.9%	-0.5%	-1.2%	-0.2%

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.5%												
1992	1.1%	0.7%											
1993	1.5%	0.9%	0.4%										
1994	1.9%	1.6%	0.8%	0.5%									
1995	2.2%	1.9%	1.4%	0.9%	0.0%								
1996	2.6%	2.3%	1.9%	1.1%	-0.1%	-0.2%							
1997	2.7%	2.5%	2.3%	1.6%	-0.3%	0.1%	-0.1%						
1998	2.9%	2.6%	2.7%	1.9%	-0.6%	-0.2%	-0.2%	-0.3%					
1999	2.9%	2.7%	2.9%	2.3%	-0.8%	-0.5%	-0.3%	-0.4%	-0.1%				
2000	3.1%	2.9%	3.4%	2.7%	-0.9%	-0.8%	-0.4%	-0.3%	0.2%	-0.7%			
2001	3.2%	2.9%	3.8%	3.1%	-1.1%	-0.8%	-0.4%	-0.1%	0.5%	-0.7%	0.5%		
2002	3.4%	2.9%	4.0%	3.5%	-1.4%	-1.0%	-0.5%	-0.2%	0.6%	-0.6%	0.7%	0.4%	
2003	3.2%	2.8%	4.0%	3.4%	-1.6%	-1.3%	-0.6%	-0.2%	0.6%	-0.6%	0.6%	0.0%	0.1%
2004	3.3%	3.0%	4.3%	3.6%	-1.8%	-1.4%	-0.7%	-0.1%	0.6%	-0.6%	0.5%	-0.2%	0.3%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	2.7%												
1992	5.9%	3.4%											
1993	7.6%	4.3%	2.2%										
1994	9.7%	8.1%	4.1%	2.5%									
1995	11.5%	9.9%	7.1%	4.4%	-0.1%								
1996	13.2%	11.5%	9.5%	5.3%	-0.4%	-0.8%							
1997	14.0%	13.0%	11.9%	8.1%	-1.7%	0.4%	-0.5%						
1998	14.6%	13.2%	13.6%	9.6%	-2.9%	-1.2%	-0.9%	-1.4%					
1999	14.6%	13.4%	14.6%	11.7%	-3.9%	-2.8%	-1.5%	-2.0%	-0.3%				
2000	15.2%	14.2%	17.1%	13.5%	-4.7%	-3.7%	-1.9%	-1.4%	1.1%	-3.5%			
2001	15.5%	14.4%	18.6%	15.2%	-5.3%	-4.0%	-1.8%	-0.6%	2.4%	-3.2%	2.5%		
2002	16.1%	14.2%	19.3%	16.7%	-6.5%	-5.0%	-2.4%	-0.8%	2.8%	-3.0%	3.5%	1.9%	
2003	15.0%	13.2%	18.9%	16.3%	-7.6%	-6.0%	-2.9%	-0.8%	2.8%	-2.9%	2.6%	0.2%	0.6%
2004	15.6%	14.5%	20.5%	17.3%	-8.7%	-6.7%	-3.4%	-0.6%	2.9%	-2.8%	2.3%	-1.1%	1.5%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 6-3: EDL im Pkw-Verkehr (Fahrleistung), historische Entwicklung, Projektionen und Trendfehler

EDL Pkw														
Vehicle miles travelled (10 ⁹ miles)														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	83.9													
1984	85.3													
1985	86.8													
1986	88.5													
1987	89.5													
1988	91.1													
1989	92.8													
1990	93.3	93.4												
1991	94.3	94.1	94.0											
1992	95.7	95.0	94.8	95.1										
1993	96.4	96.0	95.6	95.8	95.8									
1994	97.1	97.2	96.4	96.7	96.7	97.9								
1995	99.0	98.3	97.4	97.5	97.5	99.0	99.1							
1996	99.6	99.4	98.3	98.4	98.4	100.0	100.3	100.4						
1997	101.0	100.4	99.3	99.2	99.3	101.1	101.2	101.7	101.3					
1998	102.5	101.3	100.2	100.0	100.2	102.1	102.2	102.9	102.6	102.8				
1999	103.9	102.3	101.1	100.8	101.1	103.2	103.3	104.2	103.8	104.2	104.1			
2000	104.7	103.2	102.0	101.7	101.9	104.3	104.4	105.3	105.0	105.4	105.3	105.2		
2001	107.0	104.2	102.9	102.5	102.7	105.4	105.6	106.5	106.2	106.5	106.5	106.2	106.3	
2002	108.1	105.1	103.7	103.4	103.6	106.6	106.8	107.6	107.3	107.7	107.7	107.2	107.4	110.3
2003	110.0	106.1	104.5	104.2	104.5	107.8	108.0	108.8	108.5	108.9	109.0	108.3	108.5	111.5
2004	110.7	106.9	105.2	105.0	105.4	109.0	109.3	109.9	109.7	110.1	110.2	109.3	109.6	112.6
2005		107.8	105.9	105.9	106.2	110.2	110.5	111.1	111.0	111.3	111.4	110.4	110.8	113.7
Steigung in %	1.3%	1.1%	0.9%	0.9%	0.9%	1.1%	1.1%	1.2%	1.2%	1.2%	1.2%	1.0%	1.1%	1.0%

CO2-gewichteter Trendfehler													
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-0.2%												
1992	-0.3%	-0.2%											
1993	-0.4%	-0.3%	-0.2%										
1994	-0.4%	-0.5%	-0.3%	-0.1%									
1995	-0.5%	-0.5%	-0.4%	-0.3%	-0.1%								
1996	-0.5%	-0.6%	-0.5%	-0.4%	-0.1%	0.0%							
1997	-0.6%	-0.7%	-0.7%	-0.5%	-0.2%	-0.1%	0.0%						
1998	-0.7%	-0.8%	-0.8%	-0.6%	-0.3%	-0.2%	0.0%	0.0%					
1999	-0.8%	-0.9%	-1.0%	-0.7%	-0.3%	-0.3%	0.0%	0.0%	0.0%				
2000	-0.9%	-1.0%	-1.1%	-0.8%	-0.4%	-0.3%	0.0%	0.0%	0.0%	0.0%			
2001	-1.0%	-1.1%	-1.2%	-1.0%	-0.4%	-0.3%	-0.1%	-0.1%	0.0%	0.0%	-0.1%		
2002	-1.1%	-1.3%	-1.3%	-1.1%	-0.4%	-0.3%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	
2003	-1.2%	-1.4%	-1.4%	-1.2%	-0.5%	-0.4%	-0.2%	-0.1%	-0.1%	-0.1%	-0.2%	-0.1%	0.0%
2004	-1.3%	-1.6%	-1.6%	-1.3%	-0.5%	-0.4%	-0.2%	-0.1%	-0.1%	-0.1%	-0.3%	-0.1%	-0.1%

Trendfehler													
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-0.6%												
1992	-1.0%	-0.5%											
1993	-1.3%	-1.0%	-0.5%										
1994	-1.3%	-1.4%	-1.0%	-0.4%									
1995	-1.5%	-1.7%	-1.4%	-0.8%	-0.2%								
1996	-1.7%	-2.1%	-1.7%	-1.2%	-0.4%	-0.1%							
1997	-1.9%	-2.3%	-2.2%	-1.5%	-0.7%	-0.4%	0.0%						
1998	-2.3%	-2.6%	-2.6%	-1.9%	-0.9%	-0.6%	0.0%	0.0%					
1999	-2.5%	-3.0%	-3.0%	-2.3%	-1.1%	-0.8%	0.0%	0.1%					
2000	-2.8%	-3.3%	-3.4%	-2.6%	-1.2%	-0.9%	-0.1%	-0.1%	0.0%	-0.1%			
2001	-3.1%	-3.6%	-3.7%	-3.0%	-1.3%	-1.0%	-0.2%	-0.2%	-0.1%	-0.2%	-0.2%		
2002	-3.4%	-4.0%	-4.1%	-3.4%	-1.4%	-1.1%	-0.3%	-0.3%	-0.2%	-0.2%	-0.4%	-0.1%	
2003	-3.6%	-4.4%	-4.4%	-3.7%	-1.5%	-1.1%	-0.5%	-0.4%	-0.3%	-0.2%	-0.6%	-0.3%	-0.1%
2004	-4.0%	-4.8%	-4.8%	-4.0%	-1.5%	-1.1%	-0.6%	-0.4%	-0.3%	-0.2%	-0.8%	-0.4%	-0.3%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 6-4: Brennstoffintensität bezogen auf die EDL im Pkw-Verkehr, historische Entwicklung, Projektionen und Trendfehler

fuel edl Pkw Index	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	8.04													
1984	7.88													
1985	7.82													
1986	7.82													
1987	7.60													
1988	7.34													
1989	7.17													
1990	6.88	7.60												
1991	6.63	7.43	7.39											
1992	6.65	7.06	7.13	7.25										
1993	6.73	6.90	6.92	7.11	6.86									
1994	6.70	6.69	6.64	6.90	6.63	7.66								
1995	6.62	6.45	6.46	6.69	6.51	7.73	7.40							
1996	6.62	6.21	6.26	6.44	6.30	7.68	7.43	7.49						
1997	6.58	6.00	6.03	6.20	6.04	7.65	7.43	7.42	7.10					
1998	6.55	5.78	5.83	5.98	5.85	7.62	7.42	7.38	7.18	7.12				
1999	6.62	5.60	5.67	5.81	5.65	7.59	7.41	7.38	7.24	7.12	7.21			
2000	6.48	5.42	5.50	5.61	5.49	7.57	7.40	7.39	7.29	7.13	7.37	7.65		
2001	6.41	5.28	5.35	5.46	5.34	7.52	7.38	7.36	7.28	7.09	7.33	7.68	7.33	
2002	6.45	5.09	5.19	5.30	5.14	7.46	7.36	7.34	7.26	7.03	7.21	7.61	7.26	7.61
2003	6.64	4.99	5.09	5.18	5.03	7.39	7.31	7.32	7.24	7.03	7.13	7.55	7.27	7.69
2004	6.60	4.83	4.90	5.00	4.87	7.33	7.26	7.29	7.22	7.00	7.08	7.49	7.26	7.61
2005														
Steigung in %	-0.4%	-2.6%	-2.6%	-2.7%	-2.7%	-0.5%	-0.2%	-0.3%	0.2%	-0.3%	-0.6%	-0.6%	-0.3%	0.0%
CO2-gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990														
1991		-0.4%												
1992		-1.2%	-0.6%											
1993		-1.7%	-1.2%	-0.3%										
1994		-2.1%	-1.8%	-0.8%	-0.6%									
1995		-2.7%	-2.2%	-1.3%	-0.9%	0.2%								
1996		-3.4%	-2.8%	-2.0%	-1.5%	0.1%	0.1%							
1997		-3.8%	-3.3%	-2.6%	-2.1%	0.1%	0.2%	-0.1%						
1998		-4.4%	-3.8%	-3.2%	-2.7%	0.1%	0.2%	-0.2%	0.3%					
1999		-4.9%	-4.3%	-3.7%	-3.3%	0.1%	0.2%	-0.1%	0.5%	0.0%				
2000		-5.4%	-4.8%	-4.2%	-3.7%	0.0%	0.3%	-0.1%	0.7%	0.1%	0.5%			
2001		-5.8%	-5.2%	-4.7%	-4.2%	0.0%	0.3%	-0.1%	0.7%	0.0%	0.5%	0.1%		
2002		-6.4%	-5.7%	-5.2%	-4.8%	-0.2%	0.2%	-0.1%	0.7%	-0.1%	0.1%	0.0%	-0.2%	
2003		-6.8%	-6.1%	-5.6%	-5.2%	-0.3%	0.2%	-0.1%	0.7%	-0.1%	0.0%	-0.1%	-0.1%	0.3%
2004		-7.1%	-6.6%	-6.0%	-5.6%	-0.4%	0.0%	-0.2%	0.7%	-0.1%	-0.1%	-0.3%	-0.1%	0.1%
Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990														
1991		-2.0%												
1992		-6.5%	-3.1%											
1993		-8.3%	-5.8%	-1.7%										
1994		-10.8%	-9.2%	-4.2%	-3.0%									
1995		-13.8%	-11.5%	-6.9%	-4.6%	1.1%								
1996		-16.8%	-14.0%	-10.1%	-7.4%	0.7%	0.7%							
1997		-19.3%	-16.9%	-13.2%	-10.9%	0.6%	0.9%	-0.6%						
1998		-22.2%	-19.4%	-16.1%	-13.5%	0.4%	1.1%	-0.9%	1.4%					
1999		-24.5%	-21.5%	-18.3%	-16.3%	0.3%	1.2%	-0.7%	2.5%	0.1%				
2000		-26.6%	-23.7%	-21.0%	-18.4%	0.2%	1.3%	-0.4%	3.4%	0.5%	2.5%			
2001		-28.4%	-25.6%	-23.0%	-20.5%	-0.2%	1.3%	-0.5%	3.5%	0.2%	2.2%	0.5%		
2002		-30.8%	-27.6%	-25.0%	-23.3%	-0.8%	1.2%	-0.6%	3.5%	-0.4%	0.7%	-0.1%	-0.8%	
2003		-32.1%	-28.9%	-26.5%	-24.7%	-1.4%	0.8%	-0.6%	3.4%	-0.3%	-0.1%	-0.6%	-0.5%	1.2%
2004		-34.1%	-31.5%	-28.9%	-27.1%	-2.1%	0.2%	-0.9%	3.3%	-0.5%	-0.7%	-1.3%	-0.3%	0.3%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 6-5: Kraftstoffeinsatz im Pkw-Verkehr, historische Entwicklung, Projektionen und Trendfehler

fe Pkw fuel EJ	Actual AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	11.64													
1984	11.88													
1985	12.19													
1986	12.60													
1987	12.81													
1988	13.07													
1989	13.22													
1990	12.97	14.33												
1991	12.66	14.17	14.23											
1992	13.13	14.22	14.37	14.46										
1993	13.55	14.46	14.50	14.75	14.64									
1994	13.81	14.63	14.80	14.95	14.91	14.99								
1995	14.01	14.75	15.03	15.16	15.15	15.34	15.46							
1996	14.37	14.83	15.22	15.26	15.05	15.39	15.65	16.59						
1997	14.70	14.90	15.37	15.39	15.26	15.55	16.04	16.84	15.91					
1998	15.05	14.99	15.54	15.53	15.46	15.76	16.23	17.14	16.26	16.68				
1999	15.54	15.10	15.70	15.68	15.64	15.98	16.42	17.42	16.49	17.07	16.82			
2000	15.52	15.20	15.82	15.86	15.79	16.20	16.62	17.66	16.97	17.43	17.33	17.44		
2001	15.64	15.34	15.94	15.98	15.91	16.36	16.84	17.89	17.31	17.76	17.78	17.96	17.16	
2002	16.07	15.48	16.05	16.10	16.02	16.49	17.03	18.12	17.62	18.01	18.05	18.30	17.58	18.50
2003	16.73	15.59	16.16	16.21	16.12	16.62	17.22	18.37	17.92	18.35	18.37	18.64	17.89	19.03
2004	17.03	15.71	16.31	16.27	16.21	16.73	17.38	18.59	18.18	18.66	18.68	18.94	18.22	19.46
2005		15.85	16.42	16.35	16.29	16.85	17.53	18.82	18.47	18.99	18.99	19.27	18.63	19.84
Steigung in %	2.1%	0.8%	1.1%	1.0%	0.9%	1.1%	1.3%	1.5%	2.0%	1.9%	2.1%	2.0%	2.1%	2.4%
CO2-gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990														
1991		-0.7%												
1992		-1.0%	-0.3%											
1993		-1.2%	-0.5%	-0.1%										
1994		-1.3%	-0.6%	-0.2%	-0.1%									
1995		-1.6%	-0.7%	-0.4%	-0.2%	0.0%								
1996		-1.9%	-0.8%	-0.7%	-0.7%	-0.3%	-0.2%							
1997		-2.1%	-1.0%	-0.9%	-0.9%	-0.5%	-0.1%	-0.1%						
1998		-2.4%	-1.2%	-1.1%	-1.0%	-0.7%	-0.3%	-0.2%	0.0%					
1999		-2.7%	-1.4%	-1.3%	-1.2%	-0.8%	-0.4%	-0.3%	-0.1%	0.1%				
2000		-2.9%	-1.7%	-1.5%	-1.4%	-0.9%	-0.6%	-0.4%	0.1%	0.1%	0.2%			
2001		-3.1%	-1.9%	-1.7%	-1.6%	-1.1%	-0.7%	-0.5%	0.1%	0.1%	0.4%	0.2%		
2002		-3.4%	-2.2%	-2.0%	-1.9%	-1.3%	-0.9%	-0.6%	0.1%	0.0%	0.3%	0.2%	0.1%	
2003		-3.6%	-2.4%	-2.2%	-2.1%	-1.6%	-1.0%	-0.7%	0.1%	0.0%	0.3%	0.2%	0.1%	0.2%
2004		-3.7%	-2.5%	-2.5%	-2.3%	-1.8%	-1.2%	-0.8%	0.0%	0.0%	0.2%	0.2%	0.1%	0.3%
Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990														
1991		-3.4%												
1992		-5.3%	-1.4%											
1993		-5.8%	-2.7%	-0.3%										
1994		-6.8%	-2.8%	-1.2%	-0.4%									
1995		-8.1%	-3.4%	-1.9%	-1.0%	0.1%								
1996		-9.5%	-4.3%	-3.4%	-3.7%	-1.6%	-0.9%							
1997		-11.0%	-5.3%	-4.5%	-4.4%	-2.7%	-0.5%	-0.6%						
1998		-12.2%	-6.2%	-5.6%	-5.1%	-3.3%	-1.3%	-0.9%	0.1%					
1999		-13.4%	-7.1%	-6.6%	-5.9%	-3.9%	-2.2%	-1.3%	-0.5%	0.3%				
2000		-14.4%	-8.3%	-7.4%	-6.8%	-4.5%	-2.9%	-1.8%	0.5%	0.5%	1.1%			
2001		-15.3%	-9.3%	-8.4%	-7.9%	-5.4%	-3.5%	-2.4%	0.6%	0.4%	1.7%	1.0%		
2002		-16.1%	-10.4%	-9.5%	-9.0%	-6.4%	-4.2%	-3.0%	0.4%	-0.1%	1.4%	1.0%	0.5%	
2003		-17.1%	-11.4%	-10.5%	-10.1%	-7.4%	-4.9%	-3.5%	0.3%	0.0%	1.2%	1.0%	0.5%	1.0%
2004		-18.0%	-12.2%	-11.8%	-11.2%	-8.5%	-5.8%	-4.1%	-0.1%	-0.2%	1.1%	0.8%	0.4%	1.4%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 6-6: Endenergieeinsatz im übrigen Verkehr, bezogen auf das BIP, historische Entwicklung, Projektionen und Trendfehler

fuel other transport / GDP		Actual													
MJ/\$2000	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	1.57														
1984	1.54														
1985	1.48														
1986	1.49														
1987	1.51														
1988	1.55														
1989	1.51														
1990	1.51	1.34													
1991	1.50	1.31	1.36												
1992	1.43	1.29	1.36	1.44											
1993	1.40	1.29	1.32	1.43	1.30										
1994	1.39	1.28	1.32	1.41	1.28	1.29									
1995	1.40	1.26	1.31	1.40	1.32	1.29	1.30								
1996	1.37	1.23	1.29	1.38	1.32	1.27	1.29	1.17							
1997	1.31	1.19	1.27	1.36	1.30	1.26	1.30	1.17	1.22						
1998	1.28	1.16	1.23	1.33	1.28	1.23	1.29	1.16	1.20	1.19					
1999	1.26	1.12	1.20	1.31	1.26	1.21	1.29	1.19	1.22	1.16	1.15				
2000	1.28	1.10	1.18	1.29	1.25	1.20	1.30	1.19	1.26	1.17	1.10	1.15			
2001	1.21	1.08	1.16	1.28	1.23	1.19	1.29	1.20	1.26	1.18	1.09	1.11	1.14		
2002	1.19	1.05	1.13	1.26	1.21	1.17	1.28	1.20	1.26	1.19	1.10	1.11	1.10	0.97	
2003	1.12	1.02	1.10	1.24	1.19	1.15	1.27	1.20	1.26	1.18	1.09	1.11	1.09	0.94	
2004	1.10	1.00	1.08	1.22	1.18	1.13	1.27	1.21	1.26	1.18	1.08	1.11	1.07	0.96	
2005	0.97	1.06	1.21	1.16	1.11	1.26	1.21	1.25	1.18	1.08	1.10	1.06	0.98		
Steigung in %	-1.8%	-1.9%	-1.7%	-1.3%	-1.0%	-1.3%	-0.2%	0.5%	0.6%	0.1%	-0.9%	-0.6%	-1.7%	0.3%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.1%												
1992	0.2%	0.3%											
1993	0.5%	0.3%	0.2%										
1994	0.7%	0.6%	0.4%	0.1%									
1995	0.9%	0.8%	0.6%	0.8%	0.3%								
1996	0.8%	0.8%	0.7%	1.0%	0.4%	0.2%							
1997	0.7%	0.9%	0.8%	1.2%	0.6%	0.5%	0.3%						
1998	0.6%	0.9%	0.8%	1.3%	0.6%	0.8%	0.4%	0.1%					
1999	0.5%	0.8%	0.8%	1.3%	0.6%	1.0%	1.0%	0.5%	0.0%				
2000	0.5%	0.7%	0.9%	1.4%	0.7%	1.3%	1.2%	1.1%	0.3%	-0.3%			
2001	0.5%	0.8%	1.0%	1.5%	0.8%	1.5%	1.6%	1.4%	0.6%	-0.2%	-0.2%		
2002	0.4%	0.7%	1.0%	1.5%	0.8%	1.6%	1.9%	1.6%	0.9%	0.1%	-0.1%	-0.2%	
2003	0.2%	0.6%	1.0%	1.5%	0.7%	1.7%	2.0%	1.7%	1.0%	0.2%	0.2%	-0.2%	-0.2%
2004	0.1%	0.6%	1.1%	1.6%	0.8%	1.9%	2.4%	2.1%	1.3%	0.3%	0.4%	-0.2%	0.3%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	0.6%												
1992	2.0%	2.7%											
1993	4.5%	2.6%	1.9%										
1994	6.2%	4.8%	3.6%	1.1%									
1995	7.5%	6.9%	5.1%	6.8%	2.2%								
1996	7.0%	7.4%	5.9%	9.1%	3.5%	1.6%							
1997	6.4%	7.8%	6.7%	10.5%	4.7%	4.6%	2.8%						
1998	5.3%	7.2%	6.8%	10.8%	4.6%	6.4%	3.8%	0.7%					
1999	4.1%	6.5%	6.8%	11.1%	5.0%	8.4%	8.4%	3.8%	-0.2%				
2000	4.0%	6.3%	7.7%	12.1%	5.9%	11.1%	10.5%	9.4%	2.8%	-2.6%			
2001	4.0%	6.6%	8.5%	12.8%	6.6%	13.0%	14.0%	12.1%	5.2%	-1.5%	-2.1%		
2002	3.2%	5.7%	8.5%	13.0%	6.6%	14.0%	16.1%	13.7%	7.8%	0.6%	-0.5%	-2.0%	
2003	2.1%	5.2%	8.8%	13.1%	6.5%	15.1%	18.1%	15.7%	8.8%	1.4%	2.0%	-1.7%	-1.4%
2004	1.0%	4.7%	9.2%	13.6%	6.8%	16.4%	20.3%	17.9%	11.0%	2.5%	3.4%	-1.7%	2.2%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 6-7: Endenergieeinsatz im übrigen Verkehr, historische Entwicklung, Projektionen und Trendfehler

fe other transport															
EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	8.51														
1984	8.97														
1985	8.94														
1986	9.31														
1987	9.77														
1988	10.42														
1989	10.52														
1990	10.74	8.96													
1991	10.63	8.75	9.15												
1992	10.51	8.95	9.36	9.89											
1993	10.53	9.24	9.50	10.11	9.35										
1994	10.93	9.48	9.81	10.38	9.57	9.62									
1995	11.21	9.74	10.16	10.57	10.14	9.85	10.20								
1996	11.43	9.84	10.37	10.73	10.40	9.98	10.39	9.49							
1997	11.42	9.97	10.62	10.95	10.71	10.24	10.70	9.90	10.37						
1998	11.64	10.15	10.89	11.16	10.94	10.42	11.06	10.14	10.58	10.48					
1999	11.95	10.31	11.09	11.37	11.16	10.63	11.48	10.71	10.89	10.62	10.92				
2000	12.59	10.52	11.29	11.63	11.38	10.86	11.90	10.98	11.53	10.88	10.98	11.38			
2001	12.01	10.76	11.57	11.85	11.55	11.06	12.20	11.38	11.84	11.13	11.28	11.04	11.26		
2002	12.03	10.98	11.81	12.09	11.82	11.27	12.47	11.74	12.15	11.49	11.76	11.29	11.08	9.77	
2003	11.59	11.17	12.06	12.38	12.08	11.46	12.81	12.06	12.47	11.71	12.04	11.85	11.38	9.65	
2004	11.92	11.32	12.31	12.63	12.39	11.70	13.15	12.43	12.79	12.06	12.33	12.22	11.63	10.15	
2005		11.52	12.51	12.87	12.68	11.99	13.47	12.81	13.16	12.36	12.66	12.58	11.89	10.67	
Steigung in %	1.1%	2.1%	2.7%	2.3%	2.8%	2.2%	3.3%	3.9%	3.5%	2.6%	2.8%	2.5%	1.6%	3.3%	
	1.329														
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-0.4%													
1992		-0.3%	0.1%												
1993		0.0%	0.2%	0.1%											
1994		0.1%	0.4%	0.3%	0.1%										
1995		0.3%	0.8%	0.4%	0.7%	0.2%									
1996		0.3%	0.8%	0.4%	0.9%	0.2%	0.1%								
1997		0.3%	1.0%	0.6%	1.1%	0.4%	0.3%	0.4%							
1998		0.4%	1.2%	0.7%	1.3%	0.4%	0.6%	0.6%	0.1%						
1999		0.5%	1.3%	0.8%	1.4%	0.6%	0.9%	1.1%	0.3%	0.0%					
2000		0.6%	1.4%	0.9%	1.5%	0.7%	1.2%	1.3%	0.9%	0.2%	-0.1%				
2001		0.8%	1.6%	1.0%	1.6%	0.8%	1.4%	1.6%	1.1%	0.3%	0.1%	-0.5%			
2002		0.9%	1.7%	1.1%	1.7%	0.9%	1.6%	1.9%	1.3%	0.6%	0.5%	-0.3%	-0.3%		
2003		0.9%	1.8%	1.3%	1.8%	0.9%	1.7%	2.0%	1.4%	0.7%	0.7%	0.1%	-0.1%	-0.2%	
2004		1.0%	2.0%	1.5%	2.1%	1.1%	2.0%	2.4%	1.7%	1.0%	0.9%	0.4%	0.0%	0.2%	
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-3.5%													
1992		-2.4%	1.1%												
1993		-0.3%	1.5%	1.1%											
1994		1.2%	3.7%	2.7%	1.2%										
1995		2.8%	6.2%	3.4%	6.1%	1.3%									
1996		2.8%	7.2%	3.8%	7.7%	1.5%	0.8%								
1997		3.0%	8.7%	4.8%	9.7%	3.0%	2.7%	3.3%							
1998		3.7%	10.2%	5.7%	10.8%	3.7%	5.0%	4.7%	0.9%						
1999		4.2%	11.1%	6.6%	11.9%	4.7%	7.8%	9.4%	2.8%	0.3%					
2000		5.2%	11.9%	7.8%	12.9%	5.8%	10.6%	11.0%	7.7%	1.6%	-0.4%				
2001		6.6%	13.5%	8.8%	13.4%	6.7%	12.3%	13.8%	9.5%	2.9%	1.2%	-4.0%			
2002		7.7%	14.6%	9.9%	14.8%	7.6%	13.6%	16.2%	11.2%	5.2%	4.4%	-2.8%	-2.6%		
2003		8.4%	15.9%	11.3%	16.2%	8.3%	15.5%	18.2%	13.0%	6.1%	5.9%	1.0%	-1.0%	-2.2%	
2004		8.8%	17.2%	12.5%	18.0%	9.5%	17.4%	20.6%	14.8%	8.3%	7.4%	3.1%	0.2%	1.8%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 6-8: Endenergieeinsatz im Verkehrssektor, historische Entwicklung, Projektionen und Trendfehler

fetransport															
EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	20.15														
1984	20.85														
1985	21.13														
1986	21.91														
1987	22.58														
1988	23.49														
1989	23.74														
1990	23.71	23.29													
1991	23.28	22.92	23.38												
1992	23.64	23.17	23.73	24.35											
1993	24.09	23.71	23.99	24.86	23.99										
1994	24.74	24.12	24.61	25.33	24.48	24.61									
1995	25.22	24.49	25.19	25.73	25.29	25.19	25.65								
1996	25.80	24.68	25.60	25.99	25.45	25.37	26.05	26.08							
1997	26.12	24.87	26.00	26.34	25.96	25.80	26.74	26.74	26.28						
1998	26.69	25.14	26.43	26.69	26.40	26.19	27.30	27.28	26.83	27.16					
1999	27.48	25.41	26.79	27.05	26.80	26.62	27.89	28.13	27.38	27.69	27.73				
2000	28.11	25.72	27.10	27.48	27.18	27.05	28.52	28.64	28.50	28.31	28.31	28.82			
2001	27.66	26.10	27.52	27.83	27.46	27.42	29.04	29.27	29.16	28.89	29.07	29.00	28.42		
2002	28.09	26.46	27.85	28.19	27.83	27.76	29.50	29.85	29.77	29.50	29.81	29.59	28.65	28.27	
2003	28.32	26.77	28.22	28.58	28.20	28.08	30.02	30.44	30.39	30.06	30.41	30.50	29.27	28.68	
2004	28.95	27.03	28.62	28.90	28.59	28.43	30.52	31.02	30.97	30.73	31.01	31.16	29.84	29.61	
2005		27.37	28.93	29.23	28.97	28.83	31.00	31.62	31.63	31.35	31.65	31.85	30.52	30.51	
Steigung in %	1.7%	1.3%	1.7%	1.5%	1.7%	1.5%	2.1%	2.4%	2.6%	2.2%	2.4%	2.2%	1.9%	2.7%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-1.1%												
1992	-1.3%	-0.1%											
1993	-1.1%	-0.3%	0.1%										
1994	-1.1%	0.0%	0.1%	0.1%									
1995	-1.2%	0.2%	0.1%	0.6%	0.2%								
1996	-1.4%	0.1%	-0.1%	0.3%	-0.1%	0.0%							
1997	-1.7%	0.1%	-0.2%	0.4%	-0.1%	0.3%	0.3%						
1998	-1.9%	0.1%	-0.3%	0.4%	-0.1%	0.4%	0.4%	0.1%					
1999	-2.0%	0.0%	-0.4%	0.4%	-0.1%	0.6%	0.9%	0.3%	0.1%				
2000	-2.1%	-0.1%	-0.4%	0.3%	-0.1%	0.8%	1.0%	1.1%	0.3%	0.2%			
2001	-2.2%	-0.1%	-0.5%	0.2%	-0.2%	0.9%	1.2%	1.3%	0.5%	0.5%	-0.3%		
2002	-2.2%	-0.2%	-0.5%	0.1%	-0.3%	0.9%	1.3%	1.5%	0.7%	0.9%	-0.1%	-0.2%	
2003	-2.3%	-0.2%	-0.6%	0.0%	-0.4%	1.0%	1.5%	1.7%	0.8%	1.0%	0.4%	0.0%	0.0%
2004	-2.5%	-0.3%	-0.7%	0.0%	-0.4%	1.1%	1.6%	1.9%	1.1%	1.2%	0.6%	0.1%	0.6%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-3.4%												
1992	-4.0%	-0.3%											
1993	-3.5%	-1.0%	0.3%										
1994	-3.5%	-0.1%	0.5%	0.3%									
1995	-3.7%	0.5%	0.3%	1.9%	0.6%								
1996	-4.5%	0.4%	-0.3%	0.8%	-0.3%	-0.1%							
1997	-5.4%	0.3%	-0.6%	1.2%	-0.3%	0.9%	0.9%						
1998	-5.8%	0.4%	-0.9%	1.2%	-0.4%	1.3%	1.3%	0.5%					
1999	-6.4%	0.1%	-1.2%	1.1%	-0.4%	1.9%	2.8%	0.9%	0.4%				
2000	-6.7%	-0.2%	-1.1%	1.0%	-0.3%	2.6%	3.0%	3.4%	1.0%	0.5%			
2001	-6.7%	-0.3%	-1.4%	0.5%	-0.5%	2.8%	3.7%	4.2%	1.5%	1.6%	-0.9%		
2002	-6.9%	-0.6%	-1.6%	0.3%	-0.8%	2.9%	4.1%	4.8%	2.1%	2.6%	-0.4%	-0.7%	
2003	-7.2%	-0.7%	-1.8%	0.1%	-1.1%	3.2%	4.6%	5.4%	2.5%	3.1%	1.1%	0.0%	0.0%
2004	-7.6%	-0.8%	-2.1%	0.0%	-1.3%	3.3%	5.1%	5.8%	3.2%	3.7%	1.8%	0.4%	1.7%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-7 Daten Gesamt

A-7.1 Daten der AEOs 83 bis 04

Tabelle A 7-1: Bruttoinlandsprodukt, historische Entwicklung von 1983 bis 2004 und Projektionen

	AEO/NER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																							
1982		5,42	5,07	5,07																			
1983		5,81	5,41	5,41	5,41																		
1984		6,05	5,62	5,61	5,57	5,73	5,75																
1985		6,26	5,98	5,88	5,76	5,90	5,95																
1986		6,48	6,35	6,27	6,06	6,12	6,19																
1987		6,74	6,72	6,65	6,33	6,26	6,21	6,42															
1988		6,98	7,06	6,99	6,63	6,38	6,41	6,60	6,83	6,80	6,62	6,60	6,69	6,70	6,76	6,72	6,73	6,77	6,80				
1989		7,11	7,42	7,33	6,93	6,58	6,60	6,83	6,80	6,83	6,80	6,83	6,80	6,83	6,80	6,83	6,80	6,83	6,80	6,83			
1990		7,10					7,12	7,10	7,12	7,10	7,12	7,10	7,12	7,10	7,12	7,10	7,12	7,10	7,12	7,10			
1991		7,34					7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34	7,34			
1992		7,53					7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53	7,53			
1993		7,84					7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84	7,84			
1994		8,03	10,16	9,88	9,21	8,55	8,38	8,60	8,34	8,34	8,34	8,34	8,34	8,34	8,34	8,34	8,34	8,34	8,34	8,34			
1995		8,33					8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33	8,33			
1996		8,70					8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70	8,70			
1997		9,07					9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07	9,07			
1998		9,47					9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47	9,47			
1999		9,82					9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82	9,82			
2000		9,89					9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89	9,89			
2001		10,07					10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07	10,07			
2002		10,38					10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38	10,38			
2003		10,84					10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84	10,84			
2004																							
2005																							

Quelle: AEOs, diverse Jahrgänge, BEA 2005, eigene Berechnungen

Tabelle A 7-2: Brennstoffeinsatz, historische Entwicklung von 1983 bis 2004 und Projektionen

Total Fuel Demand – Actual and Projected Values ('83 - '04)																							
Total Fuel Demand																							
EJ	AER/MER	AE0'83	AE0'84	AE0'85	AE0'86	AE0'87	AE0'89	AE0'90	AE0'91	AE0'92	AE0'93	AE0'94	AE0'95	AE0'96	AE0'97	AE0'98	AE0'99	AE0'00	AE0'01	AE0'02	AE0'03	AE0'04	
1981																							
1982																							
1983		48.04	47.98	48.18																			
1984		50.74	50.62	51.19	50.86																		
1985		50.04	51.19	51.33	50.76	50.07	50.08																
1986		50.18	51.96	51.62	51.28	50.21	50.20	50.21															
1987		51.98	52.58	52.56	51.90	51.35	51.27	51.91															
1988		54.37	52.89	53.39	52.44	51.72	51.97	53.51															
1989		54.84	52.98	53.90	52.57	51.60	52.70	54.11	54.41														
1990		54.44	53.02	54.39	52.64	51.90	53.24	54.40	54.43	54.87													
1991		53.96					53.67	54.59	54.15	54.82	54.47	54.46	54.46										
1992		55.42					54.11	54.67	53.86	54.03	54.41	54.69	53.86										
1993		56.11					54.42	54.60	54.41	55.34	56.01	55.25	55.25										
1994		57.15					54.49	54.54	54.99	56.76	57.93	57.83	57.57	57.30									
1995		57.96	52.64	56.01	52.15	51.39	54.51	57.00	55.44	57.38	58.91	58.52	58.24	58.30	58.61								
1996		59.97					54.45		55.98	57.63	59.51	59.11	58.65	58.91	59.97	58.56	60.47						
1997		60.25					54.55		56.57	57.79	60.10	59.61	59.47	59.84	60.53	60.57	60.54	60.48					
1998		59.48					54.70		57.12	58.09	60.66	60.14	60.16	60.54	61.66	61.19	60.32	59.93	60.03				
1999		60.38					54.95		57.64	58.35	61.17	60.80	60.79	61.09	62.65	63.68	62.08	61.02	60.96	61.76			
2000		61.49					55.33	58.41	58.03	58.68	61.54	61.54	61.34	61.60	63.59	64.41	63.76	61.98	62.03	62.80	61.87		
2001		59.93							58.55	59.06	62.03	62.12	61.71	62.13	64.27	65.18	64.72	63.51	61.77	60.57	60.41		
2002		60.62							58.91	59.39	62.40	62.69	62.25	62.69	64.95	66.06	65.61	63.65	64.85	63.95	61.45	60.43	
2003		61.02							59.16	59.72	62.80	63.43	62.82	63.28	65.76	66.83	66.40	64.65	66.03	63.77	62.81	60.81	
2004		61.92							59.34	59.90	63.24	64.02	63.48	63.96	66.52	67.69	67.19	65.75	66.98	66.88	63.76	62.16	
2005								59.66	59.61	60.26	63.62	64.55	63.99	64.60	67.20	68.59	68.11	66.78	67.92	67.89	64.57	63.83	

Quelle:

AE0s, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-4: Endenergieeinsatz, historische Entwicklung von 1983 bis 2004 und Projektionen

Total final energy demand – Actual and Projected Values ('83 - '04)																								
Total final energy demand																								
EJ	AER/MER	AE0'83	AE0'84	AE0'85	AE0'86	AE0'87	AE0'89	AE0'90	AE0'91	AE0'92	AE0'93	AE0'94	AE0'95	AE0'96	AE0'97	AE0'98	AE0'99	AE0'00	AE0'01	AE0'02	AE0'03	AE0'04		
1981																								
1982																								
1983		55.72	55.92																					
1984		58.70	59.33	59.05																				
1985		58.41	59.53	59.08	58.34	58.39																		
1986		58.70	60.57	59.76	58.63	58.65	58.66																	
1987		60.82	61.49	61.41	60.63	59.96	60.11	60.73																
1988		63.65	62.11	62.55	61.39	60.54	60.94	62.69	63.60															
1989		64.37	62.51	63.39	61.82	60.64	61.89	63.52	63.80	64.41														
1990		64.20	62.86	64.23	62.17	61.16	62.66	64.05	65.10	63.87	64.55	64.22	64.27	64.23										
1991		63.91					63.31	64.52		63.81	63.92	64.34	64.63	63.81										
1992		65.37					63.99	64.86		64.52	65.58	66.10	65.27	65.20										
1993		66.41					64.57	65.08		65.01	66.49	67.19	67.11	66.34										
1994		67.71					64.93	65.30		65.45	67.24	68.33	68.23	68.19										
1995		68.81		63.03	61.73	65.10	65.56	68.08		66.10	68.09	69.51	69.07	68.93	67.82									
1996		71.14		63.97	67.46		63.78			66.87	68.53	70.29	69.77	69.40	69.71	71.04								
1997		71.57					66.18			67.69	68.90	71.07	70.42	70.36	70.78	71.75	71.67	71.80	71.83					
1998		71.23					66.62			68.46	69.41	71.82	71.09	71.17	71.61	73.06	72.37	71.85	71.58	71.74				
1999		72.30					67.15			69.21	69.90	72.55	71.86	71.89	72.27	74.27	75.40	73.82	72.85	72.87				
2000		73.81								69.83	70.48	73.10	72.74	72.52	72.89	75.43	76.35	75.76	74.08	74.14	75.13	74.24		
2001		72.06			63.74	66.89	67.81	70.94		70.63	71.10	73.81	73.46	72.98	73.55	76.25	77.38	76.97	75.01	75.89	74.16	72.86	72.60	
2002		73.09								71.26	71.68	74.37	74.16	73.64	74.27	77.11	78.44	78.05	76.11	77.56	76.55	73.74	73.00	
2003		73.58								71.73	72.25	74.98	75.06	74.36	75.04	78.14	79.38	78.97	77.33	79.02	78.80	75.51	73.39	
2004		74.70								72.18	72.69	75.62	75.77	75.16	75.91	79.11	80.45	79.91	80.23	80.24	76.78	75.06		
2005								73.58		72.68	73.33	76.22	76.41	75.82	76.71	79.96	81.55	79.91	81.46	81.55	77.83	77.04		

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-5: CO₂-Emissionen der Stromerzeugung, historische Entwicklung von 1983 bis 2004 und Projektionen

CO ₂ Emissions of Electricity Generation – Actual and Projected Values ('83 - '04)																							
CO ₂ Emissions of Electricity Generation million metric tons of CO ₂		AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																							
1982																							
1983	1'507	1'524	1'525	1'521																			
1984	1'574	1'601	1'596	1'596																			
1985	1'605	1'628	1'673	1'631	1'620	1'624																	
1986	1'598	1'658	1'667	1'631	1'620	1'614	1'615																
1987	1'665	1'683	1'695	1'654	1'632	1'679	1'682																
1988	1'741	1'730	1'736	1'671	1'661	1'668	1'747	1'756															
1989	1'807	1'785	1'789	1'713	1'683	1'704	1'756	1'760	1'786														
1990	1'796	1'850	1'865	1'766	1'727	1'737	1'787	1'759	1'769	1'772	1'762	1'748	1'753										
1991	1'792					1'781	1'819	1'818	1'818	1'777	1'755	1'737	1'746										
1992	1'804					1'834	1'887	1'836	1'843	1'788	1'741	1'744											
1993	1'884					1'894	1'950	1'861	1'829	1'767	1'794	1'808											
1994	1'909	2'205	2'234	2'069	2'018	1'960	2'007	1'888	1'852	1'788	1'815	1'831	1'819	1'836									
1995	1'923					2'059	2'069	1'916	1'886	1'814	1'837	1'825	1'818	1'857	1'810								
1996	1'894					2'124	2'124	1'955	1'917	1'848	1'860	1'816	1'821	1'856	1'895								
1997	2'062					2'180	2'180	1'999	1'952	1'888	1'882	1'841	1'845	1'914	1'952	1'882							
1998	2'150					2'228	2'228	2'033	1'986	1'920	1'900	1'852	1'866	1'957	2'064	2'067	2'016						
1999	2'162					2'285	2'285	2'064	2'013	1'943	1'903	1'864	1'893	1'994	2'072	2'137	2'097	2'040	2'054				
2'000	2'269					2'337	2'337	2'251	2'105	2'064	1'981	1'926	1'869	1'909	2'105	2'159	2'161	2'089	2'147	2'277			
2'001	2'227					2'374	2'311	2'148	2'109	2'016	1'943	1'893	1'940	2'024	2'165	2'205	2'200	2'154	2'172	2'242			
2'002	2'249							2'194	2'150	2'052	1'960	1'913	1'973	2'051	2'176	2'216	2'235	2'206	2'153	2'126	2'249		
2'003	2'293							2'227	2'188	2'086	1'993	1'941	2'011	2'088	2'200	2'229	2'286	2'257	2'228	2'164	2'255		
2'004	2'311							2'264	2'230	2'116	2'021	1'975	2'050	2'115	2'223	2'230	2'331	2'293	2'276	2'218	2'257		
2'005								2'547	2'307	2'279	2'142	2'030	2'003	2'091	2'152	2'266	2'245	2'367	2'321	2'262	2'322		

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-6: Energiebedingte CO₂-Emissionen, historische Entwicklung von 1983 bis 2004 und Projektionen

Primary CO2 Emissions – Actual and Projected Values ('83 - '04)																									
Primary CO2 Emissions Million Metric Tons of CO2		AER/MER	AEO'83	AEO'84	AEO'85	AEO'86	AEO'87	AEO'88	AEO'89	AEO'90	AEO'91	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1981																									
1982																									
1983	4339	4363	4379	4374																					
1984	4581	4590	4612	4607																					
1985	4570	4676	4712	4655	4610	4617																			
1986	4580	4756	4725	4668	4624	4620	4621																		
1987	4739	4813	4797	4721	4691	4736	4772	4985																	
1988	4956	4881	4885	4766	4746	4766	4932	4987																	
1989	5035	4930	4936	4804	4749	4829	4967	4987	5036																
1990	4989	4991	5055	4857	4806	4887	5010	5042	4969	5006	4916	4906	4916	4906	4916										
1991	4941					4937	5038	4981	4947	4880	4885	4885	4865	4865											
1992	5043					5037	5130	5050	5104	5007	4915	4941	4941												
1993	5129					5091	5166	5073	5115	5053	5061	5031	5031												
1994	5205					5151	5212	5105	5164	5128	5129	5137	5124	5124											
1995	5256	5314	5487	5048	5117	5198	5269	5156	5228	5207	5185	5174	5181	5181	5124										
1996	5444						5329	5230	5282	5270	5238	5189	5220	5295	5364	5355									
1997	5511						5382	5299	5317	5335	5289	5259	5381	5475	5425	5423									
1998	5553						5426	5350	5357	5400	5335	5310	5355	5491	5622	5521	5446								
1999	5631						5512	5424	5413	5447	5377	5358	5417	5586	5711	5689	5573	5483	5483	5483	5563				
2000	5799				5419	5501	5512	5471	5469	5504	5436	5393	5463	5658	5784	5810	5692	5630	5540	5540	5630	5726	5787		
2001	5692						5623	5569	5561	5563	5481	5441	5526	5715	5893	5913	5777	5781	5781	5781	5781	5723	5715	5692	
2002	5729						5673	5608	5608	5619	5530	5489	5588	5781	5957	5976	5865	5909	5865	5909	5808	5808	5729	5729	
2003	5796						5719	5667	5672	5598	5551	5489	5663	5863	6026	6036	5971	6023	5971	6023	5981	5749	5743	5743	
2004	5863								5721	5724	5657	5622	5735	5934	6098	6084	6078	6114	6078	6114	6095	5856	5856	5826	

Quelle:

AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

A-7.2 Detaildaten der AEOs 92 bis 04

Tabelle A 7-7: Bruttoinlandsprodukt (real), historische Entwicklung, Projektionen und Trendfehler

Bruttoinlandsprodukt 1012US \$		Actual													
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		5.42													
1984		5.81													
1985		6.05													
1986		6.26													
1987		6.48													
1988		6.74													
1989		6.98													
1990		7.11	6.70												
1991		7.10	6.69	6.72											
1992		7.34	6.94	6.88	6.88										
1993		7.53	7.18	7.17	7.09	7.22									
1994		7.84	7.43	7.44	7.34	7.49	7.47								
1995		8.03	7.72	7.73	7.54	7.70	7.66	7.87							
1996		8.33	8.02	8.04	7.78	7.90	7.84	8.08	8.14						
1997		8.70	8.35	8.38	8.05	8.21	8.13	8.26	8.45	8.50					
1998		9.07	8.77	8.82	8.37	8.55	8.45	8.57	8.75	8.79	8.82				
1999		9.47	9.19	9.22	8.69	8.87	8.76	8.90	9.02	8.96	9.14	9.48			
2000		9.82	9.57	9.59	8.99	9.13	9.04	9.18	9.25	9.18	9.27	9.97	9.87		
2001		9.89	9.97	9.98	9.26	9.39	9.32	9.42	9.46	9.37	9.44	10.33	9.96	9.84	
2002		10.07	10.44	10.45	9.62	9.75	9.66	9.72	9.75	9.64	9.67	10.72	10.20	10.06	10.04
2003		10.38	10.92	10.92	9.99	10.14	10.01	10.06	10.02	9.90	9.94	11.09	10.63	10.48	10.24
2004		10.84	11.37	11.38	10.32	10.52	10.36	10.38	10.31	10.13	10.20	11.41	11.00	10.88	10.55
2005			11.90	11.85	10.67	10.89	10.76	10.72	10.62	10.49	10.48	11.77	11.40	11.21	10.94
Steigung in %	3.9%	5.3%	5.6%	4.3%	4.2%	4.0%	3.7%	3.3%	2.8%	2.6%	4.0%	3.2%	3.6%	3.0%	
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-4.1%													
1992		-4.3%	-1.5%												
1993		-4.6%	-1.1%	-0.8%											
1994		-4.7%	-1.0%	-0.9%	0.1%										
1995		-4.4%	-0.7%	-1.6%	-0.6%	-0.9%									
1996		-3.9%	-0.1%	-1.9%	-1.3%	-2.0%	-0.7%								
1997		-3.2%	0.8%	-1.7%	-0.8%	-1.6%	-1.8%	0.5%							
1998		-1.6%	2.8%	-1.0%	0.1%	-0.9%	-1.3%	0.9%	0.2%						
1999		0.1%	4.3%	-0.2%	0.7%	-0.3%	-0.6%	0.9%	-0.9%	0.5%					
2000		1.2%	5.3%	0.2%	0.7%	-0.1%	-0.4%	0.4%	-1.5%	-1.1%	2.2%				
2001		2.4%	6.5%	0.3%	0.6%	0.1%	-0.7%	-0.2%	-2.3%	-2.1%	2.8%	-2.0%			
2002		4.4%	8.4%	1.3%	1.6%	0.9%	-0.3%	0.0%	-2.2%	-2.4%	3.8%	-2.3%	-0.6%		
2003		6.2%	10.2%	2.4%	2.8%	1.7%	0.3%	0.1%	-2.3%	-2.4%	4.4%	-0.9%	0.8%	-0.8%	
2004		7.7%	11.9%	3.0%	3.8%	2.5%	0.8%	0.2%	-2.7%	-2.5%	4.7%	-0.2%	1.9%	-0.4%	
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-4.1%													
1992		-4.3%	-1.5%												
1993		-4.6%	-1.1%	-0.8%											
1994		-4.7%	-1.0%	-0.9%	0.1%										
1995		-4.4%	-0.7%	-1.6%	-0.6%	-0.9%									
1996		-3.9%	-0.1%	-1.9%	-1.3%	-2.0%	-0.7%								
1997		-3.2%	0.8%	-1.7%	-0.8%	-1.6%	-1.8%	0.5%							
1998		-1.6%	2.8%	-1.0%	0.1%	-0.9%	-1.3%	0.9%	0.2%						
1999		0.1%	4.3%	-0.2%	0.7%	-0.3%	-0.6%	0.9%	-0.9%	0.5%					
2000		1.2%	5.3%	0.2%	0.7%	-0.1%	-0.4%	0.4%	-1.5%	-1.1%	2.2%				
2001		2.4%	6.5%	0.3%	0.6%	0.1%	-0.7%	-0.2%	-2.3%	-2.1%	2.8%	-2.0%			
2002		4.4%	8.4%	1.3%	1.6%	0.9%	-0.3%	0.0%	-2.2%	-2.4%	3.8%	-2.3%	-0.6%		
2003		6.2%	10.2%	2.4%	2.8%	1.7%	0.3%	0.1%	-2.3%	-2.4%	4.4%	-0.9%	0.8%	-0.8%	
2004		7.7%	11.9%	3.0%	3.8%	2.5%	0.8%	0.2%	-2.7%	-2.5%	4.7%	-0.2%	1.9%	-0.4%	

Quelle: AEOs, diverse Jahrgänge, BEA 2005, eigene Berechnungen

Tabelle A 7-8: Brennstoffeinsatz, gesamt, historische Entwicklung, Projektionen und Trendfehler

Fuel total															
EJ															
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		48.04													
1984		50.74													
1985		50.04													
1986		50.18													
1987		51.98													
1988		54.37													
1989		54.84													
1990		54.44	54.82												
1991		53.96	54.03	54.41											
1992		55.42	55.34	56.01	55.25										
1993		56.11	56.19	56.98	56.88	56.04									
1994		57.15	56.76	57.93	57.83	57.57	57.30								
1995		57.96	57.38	58.91	58.52	58.24	58.30	58.61							
1996		59.97	57.63	59.51	59.11	58.65	58.91	59.97	60.57						
1997		60.25	57.79	60.10	59.61	59.47	59.84	60.53	61.19	60.54					
1998		59.48	58.09	60.66	60.14	60.16	60.54	61.66	62.29	60.32	59.93				
1999		60.38	58.35	61.17	60.80	60.79	61.09	62.65	63.68	62.08	61.02	60.96			
2000		61.49	58.68	61.54	61.54	61.34	61.60	63.59	64.41	63.76	61.98	62.03	62.80		
2001		59.93	59.06	62.03	62.12	61.71	62.13	64.27	65.18	64.72	62.77	63.51	61.77	60.57	
2002		60.62	59.39	62.40	62.69	62.25	62.69	64.95	66.06	65.61	63.65	64.85	63.95	61.45	60.43
2003		61.02	59.72	62.80	63.43	62.82	63.28	65.76	66.83	66.40	64.65	66.03	65.77	62.81	60.81
2004		61.92	59.90	63.24	64.02	63.48	63.96	66.52	67.69	67.19	65.75	66.98	66.88	63.76	62.16
2005			60.26	63.62	64.55	63.99	64.60	67.20	68.59	68.11	66.78	67.92	67.89	64.57	63.83
Steigung in %		1.0%	0.7%	1.1%	1.2%	1.1%	1.1%	1.4%	1.5%	1.7%	1.6%	2.0%	1.9%	1.7%	1.9%
CO2-gewichteter Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991		-1.5%													
1992		-0.7%	1.2%												
1993		-0.3%	1.7%	1.2%											
1994		-0.3%	2.2%	1.7%	1.1%										
1995		-0.2%	2.6%	1.8%	1.2%	0.5%									
1996		-0.5%	2.7%	1.9%	1.1%	0.6%	0.9%								
1997		-0.9%	2.7%	1.8%	1.3%	0.9%	0.9%	0.0%							
1998		-1.2%	2.6%	1.7%	1.5%	1.1%	1.4%	0.6%	-0.8%						
1999		-1.4%	2.6%	1.8%	1.5%	1.1%	1.8%	1.4%	0.4%	0.5%					
2000		-1.6%	2.4%	2.0%	1.5%	1.0%	2.2%	1.5%	1.5%	0.9%	0.5%				
2001		-1.8%	2.3%	2.0%	1.3%	1.0%	2.3%	1.7%	1.9%	1.2%	1.4%	-1.5%			
2002		-2.0%	2.1%	2.0%	1.3%	1.0%	2.4%	2.0%	2.2%	1.5%	2.2%	0.0%	0.3%		
2003		-2.2%	1.9%	2.2%	1.3%	1.0%	2.6%	2.1%	2.3%	1.9%	2.7%	1.2%	1.1%	-0.2%	
2004		-2.5%	1.8%	2.2%	1.4%	1.1%	2.8%	2.4%	2.5%	2.4%	3.1%	1.7%	1.5%	0.6%	
Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991		-2.4%													
1992		-1.0%	1.9%												
1993		-0.5%	2.7%	1.9%											
1994		-0.4%	3.4%	2.6%	1.7%										
1995		-0.3%	4.2%	2.9%	1.9%	0.8%									
1996		-0.8%	4.2%	3.0%	1.7%	0.9%	1.4%								
1997		-1.5%	4.3%	2.8%	2.2%	1.5%	1.4%	0.1%							
1998		-1.9%	4.3%	2.8%	2.4%	1.7%	2.3%	0.9%	-1.3%						
1999		-2.3%	4.2%	3.0%	2.5%	1.7%	3.0%	2.2%	0.7%	0.9%					
2000		-2.7%	3.9%	3.3%	2.5%	1.7%	3.6%	2.5%	2.5%	1.5%	0.8%				
2001		-2.9%	3.7%	3.3%	2.2%	1.6%	3.7%	2.8%	3.1%	1.9%	2.3%	-2.5%			
2002		-3.3%	3.4%	3.3%	2.2%	1.6%	3.9%	3.2%	3.6%	2.4%	3.5%	0.0%	0.5%		
2003		-3.6%	3.2%	3.6%	2.2%	1.7%	4.3%	3.5%	3.9%	3.1%	4.5%	2.0%	1.9%	-0.3%	
2004		-4.1%	3.0%	3.7%	2.4%	1.8%	4.6%	3.9%	4.2%	3.9%	5.1%	2.8%	2.5%	1.1%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-9: Durchschnittlicher Emissionsfaktor des Brennstoffeinsatzes, historische Entwicklung, Projektionen und Trendfehler

Emissionsfaktor Brennstoffe															
g/kWh	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1983	59.0														
1984	59.3														
1985	59.3														
1986	59.4														
1987	59.1														
1988	59.1														
1989	58.9														
1990	58.7	59.0													
1991	58.3	58.7	57.4												
1992	58.4	58.9	57.5	57.4											
1993	57.8	58.5	57.7	57.4	57.5										
1994	57.7	58.3	57.6	57.3	57.4	57.7									
1995	57.5	58.3	57.6	57.2	57.5	57.7	57.4								
1996	57.5	58.4	57.5	57.1	57.5	57.7	57.3	57.3							
1997	57.3	58.2	57.4	57.1	57.5	57.7	57.3	57.1	57.4						
1998	57.2	58.0	57.4	57.1	57.5	57.6	57.3	57.1	57.3	57.2					
1999	57.4	58.3	57.3	57.1	57.5	57.7	57.3	57.1	57.2	57.0	57.4				
2000	57.4	58.0	57.2	57.0	57.5	57.7	57.4	57.1	57.3	57.0	57.1	57.0			
2001	57.8	58.4	57.2	57.0	57.5	57.7	57.4	57.2	57.3	57.0	57.1	57.5	57.3		
2002	57.4	58.2	57.2	56.9	57.4	57.7	57.4	57.2	57.3	57.0	57.1	57.2	57.1	57.6	
2003	57.4	58.3	57.1	56.8	57.5	57.7	57.4	57.2	57.3	57.0	57.0	57.1	57.1	57.4	
2004	57.4	58.3	57.1	56.8	57.4	57.6	57.4	57.3	57.4	57.0	57.1	57.1	57.1	57.4	
2005															
Steigung in %	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	-0.1%	-0.2%	
CO2-gewichteter Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991	-0.2%														
1992	0.1%	0.1%													
1993	-0.3%	0.4%	0.1%												
1994	-0.3%	0.5%	0.0%	0.0%											
1995	-0.3%	0.5%	0.0%	0.2%	0.1%										
1996	-0.1%	0.5%	0.0%	0.3%	0.2%	0.0%									
1997	-0.2%	0.4%	0.1%	0.3%	0.2%	0.0%	-0.1%								
1998	-0.3%	0.5%	0.1%	0.4%	0.3%	0.1%	0.0%	0.0%							
1999	0.0%	0.5%	0.2%	0.4%	0.4%	0.3%	0.1%	0.0%	-0.2%						
2000	-0.2%	0.5%	0.2%	0.5%	0.5%	0.4%	0.1%	0.1%	-0.1%	-0.3%					
2001	0.3%	0.5%	0.2%	0.6%	0.6%	0.5%	0.3%	0.2%	0.0%	-0.2%	0.6%				
2002	0.2%	0.6%	0.2%	0.6%	0.6%	0.6%	0.4%	0.3%	0.1%	-0.1%	0.3%	-0.2%			
2003	0.3%	0.6%	0.2%	0.7%	0.7%	0.6%	0.5%	0.4%	0.1%	-0.1%	0.3%	-0.1%	-0.2%		
2004		0%	0.6%	0.2%	0.8%	0.7%	0.7%	0.6%	0.5%	0.2%	0.0%	0.4%	-0.1%	-0.1%	
Trendfehler															
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04		
1990															
1991	-0.4%														
1992	0.2%	0.2%													
1993	-0.4%	0.7%	0.1%												
1994	-0.5%	0.8%	0.0%	0.0%											
1995	-0.5%	0.8%	0.0%	0.3%	0.2%										
1996	-0.2%	0.8%	0.0%	0.4%	0.4%	0.1%									
1997	-0.3%	0.7%	0.1%	0.5%	0.4%	0.0%	-0.2%								
1998	-0.6%	0.8%	0.2%	0.6%	0.4%	0.2%	0.0%	0.0%							
1999	0.0%	0.8%	0.4%	0.7%	0.7%	0.4%	0.1%	0.0%	-0.4%						
2000	-0.3%	0.8%	0.3%	0.8%	0.8%	0.6%	0.2%	0.2%	-0.2%	-0.5%					
2001	0.5%	0.9%	0.3%	1.0%	0.9%	0.8%	0.5%	0.3%	-0.1%	-0.3%	1.0%				
2002	0.3%	1.0%	0.4%	1.0%	1.0%	0.9%	0.7%	0.5%	0.1%	-0.2%	0.5%	-0.3%			
2003	0.4%	0.9%	0.3%	1.2%	1.1%	1.0%	0.8%	0.7%	0.2%	-0.2%	0.5%	-0.2%	-0.3%		
2004		0.6%	1.0%	0.3%	1.2%	1.1%	1.1%	0.9%	0.8%	0.3%	-0.1%	0.7%	-0.1%	-0.1%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-10: CO₂-Emissionen des Brennstoffeinsatzes, historische Entwicklung, Projektionen und Trendfehler

CO ₂ Fuel Mio t CO ₂	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1983															
1984															
1985															
1986															
1987															
1988															
1989															
1990	3193	3233													
1991	3149	3170	3125												
1992	3239	3261	3219	3174											
1993	3245	3286	3286	3267	3223										
1994	3296	3312	3340	3314	3306	3304									
1995	3333	3343	3393	3348	3349	3363	3364								
1996	3450	3366	3421	3377	3373	3402	3439	3469							
1997	3449	3366	3448	3406	3419	3450	3466	3494	3473						
1998	3403	3371	3480	3435	3458	3489	3534	3558	3455	3430					
1999	3469	3400	3504	3474	3494	3524	3593	3639	3552	3476	3500				
2000	3529	3405	3523	3510	3525	3554	3649	3679	3651	3531	3541	3579			
2001	3465	3451	3547	3538	3547	3586	3691	3728	3708	3577	3627	3551	3472		
2002	3480	3458	3567	3570	3576	3615	3730	3781	3760	3630	3703	3655	3507	3480	
2003	3504	3479	3586	3605	3610	3649	3775	3826	3808	3685	3766	3753	3585	3489	
2004	3552	3491	3608	3636	3647	3685	3819	3875	3854	3746	3821	3819	3639	3569	
2005															
Steigung in %	0.8%	0.6%	1.1%	1.1%	1.1%	1.1%	1.5%	1.5%	1.8%	1.5%	1.9%	1.9%	1.7%	1.3%	
CO ₂ -gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-1.8%													
1992		-0.5%	1.4%												
1993		-0.6%	2.2%	1.3%											
1994		-0.6%	2.7%	1.7%	1.1%										
1995		-0.5%	3.2%	1.8%	1.4%	0.6%									
1996		-0.6%	3.2%	1.9%	1.3%	0.8%	0.9%								
1997		-1.1%	3.1%	1.9%	1.7%	1.2%	0.9%	-0.1%							
1998		-1.5%	3.1%	1.9%	1.8%	1.3%	1.6%	0.6%	-0.8%						
1999		-1.5%	3.1%	2.1%	2.0%	1.5%	2.1%	1.5%	0.4%	0.3%					
2000		-1.8%	2.9%	2.2%	2.0%	1.5%	2.6%	1.6%	1.6%	0.8%	0.2%				
2001		-1.5%	2.8%	2.2%	1.9%	1.6%	2.8%	2.0%	2.1%	1.1%	1.2%	-1.0%			
2002		-1.8%	2.7%	2.3%	1.9%	1.6%	3.0%	2.4%	2.5%	1.5%	2.0%	0.3%	0.1%		
2003		-1.9%	2.5%	2.4%	2.0%	1.7%	3.2%	2.6%	2.8%	2.0%	2.6%	1.5%	1.0%	-0.3%	
2004		-2.2%	2.4%	2.4%	2.2%	1.8%	3.5%	3.0%	3.0%	2.5%	3.0%	2.1%	1.4%	0.6%	
Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.8%													
1992		-0.8%	2.1%												
1993		-0.9%	3.4%	2.1%											
1994		-1.0%	4.2%	2.7%	1.7%										
1995		-0.8%	5.0%	2.9%	2.2%	1.0%									
1996		-1.0%	5.0%	2.9%	2.1%	1.3%	1.4%								
1997		-1.8%	5.0%	3.0%	2.6%	1.9%	1.4%	-0.1%							
1998		-2.4%	5.1%	3.0%	3.0%	2.2%	2.5%	0.9%	-1.3%						
1999		-2.4%	5.0%	3.4%	3.2%	2.4%	3.4%	2.4%	0.6%	0.5%					
2000		-3.0%	4.7%	3.6%	3.3%	2.5%	4.2%	2.7%	2.6%	1.3%	0.4%				
2001		-2.4%	4.6%	3.6%	3.2%	2.6%	4.6%	3.3%	3.4%	1.8%	2.0%	-1.6%			
2002		-3.0%	4.4%	3.7%	3.2%	2.6%	4.9%	3.9%	4.0%	2.5%	3.3%	0.5%	0.2%		
2003		-3.2%	4.1%	4.0%	3.4%	2.8%	5.3%	4.3%	4.6%	3.3%	4.3%	2.4%	1.7%	-0.5%	
2004		-3.6%	4.0%	4.0%	3.6%	3.0%	5.7%	4.9%	5.0%	4.2%	5.0%	3.4%	2.4%	1.0%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-11: Stromeinsatz, gesamt, historische Entwicklung, Projektionen und Trendfehler

Stromeinsatz gesamt														
EJ	Actual													
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	7.73													
1984	8.21													
1985	8.35													
1986	8.51													
1987	8.83													
1988	9.26													
1989	9.51													
1990	9.75	9.72												
1991	9.93	9.88	9.93											
1992	9.93	10.23	10.09	9.95										
1993	10.28	10.29	10.20	10.17	10.23									
1994	10.55	10.47	10.39	10.34	10.55	10.50								
1995	10.83	10.70	10.58	10.48	10.61	10.68	10.81							
1996	11.15	10.89	10.77	10.58	10.68	10.77	11.05	11.09						
1997	11.31	11.10	10.96	10.74	10.81	10.92	11.19	11.12	11.20					
1998	11.73	11.30	11.15	10.87	10.93	11.05	11.38	11.47	11.47	11.58				
1999	11.90	11.53	11.35	10.97	11.01	11.15	11.60	11.65	11.68	11.76	11.85			
2000	12.30	11.77	11.54	11.11	11.09	11.26	11.82	11.88	11.93	12.02	12.05	12.27		
2001	12.11	12.02	11.75	11.25	11.17	11.37	11.95	12.13	12.18	12.17	12.32	12.33	12.21	
2002	12.45	12.27	11.94	11.36	11.29	11.53	12.13	12.30	12.37	12.38	12.64	12.54	12.21	12.49
2003	12.53	12.51	12.14	11.51	11.43	11.70	12.32	12.47	12.49	12.60	12.91	12.96	12.62	12.50
2004	12.75	12.77	12.32	11.63	11.55	11.89	12.52	12.66	12.62	12.81	13.17	13.29	12.94	12.81
2005		13.03	12.51	11.72	11.69	12.04	12.67	12.85	12.80	13.03	13.45	13.58	13.17	13.12
Steigung in %	2.4%	2.2%	1.9%	1.3%	1.1%	1.3%	1.7%	1.8%	1.8%	1.8%	2.3%	2.3%	2.2%	1.8%
CO2-gewichteter Trendfehler														
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991	-0.3%													
1992	0.2%	-0.3%												
1993	-0.4%	-0.7%	0.0%											
1994	-0.6%	-0.8%	-0.2%	0.3%										
1995	-0.6%	-0.9%	-0.5%	-0.3%	-0.2%									
1996	-0.7%	-1.0%	-0.9%	-0.8%	-0.6%	0.0%								
1997	-0.8%	-1.2%	-1.1%	-1.1%	-0.9%	-0.3%	-0.7%							
1998	-0.9%	-1.3%	-1.5%	-1.5%	-1.2%	-0.4%	-0.3%	0.1%						
1999	-0.9%	-1.4%	-1.9%	-1.9%	-1.6%	-0.4%	-0.4%	0.1%	-0.1%					
2000	-0.8%	-1.5%	-2.2%	-2.4%	-2.0%	-0.5%	-0.4%	0.1%	-0.1%	-0.1%				
2001	-0.8%	-1.5%	-2.4%	-2.9%	-2.3%	-0.8%	-0.4%	0.2%	-0.3%	0.0%	-0.5%			
2002	-0.7%	-1.6%	-2.7%	-3.2%	-2.5%	-0.9%	-0.5%	0.1%	-0.4%	0.3%	-0.6%	-0.7%		
2003	-0.7%	-1.7%	-2.9%	-3.4%	-2.7%	-1.0%	-0.7%	-0.3%	-0.4%	0.4%	-0.1%	-0.2%	-0.7%	
2004	-0.6%	-1.8%	-3.2%	-3.7%	-2.7%	-1.1%	-0.8%	-0.6%	-0.5%	0.5%	0.2%	0.1%	-0.4%	
Trendfehler														
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991	-0.7%													
1992	0.5%	-0.7%												
1993	-1.2%	-1.8%	0.0%											
1994	-1.7%	-2.1%	-0.6%	0.9%										
1995	-1.6%	-2.5%	-1.4%	-0.7%	-0.5%									
1996	-2.0%	-2.8%	-2.5%	-2.2%	-1.7%	0.1%								
1997	-2.1%	-3.1%	-3.1%	-3.0%	-2.3%	-0.7%	-1.8%							
1998	-2.3%	-3.4%	-3.9%	-3.9%	-3.2%	-1.0%	-0.7%	0.4%						
1999	-2.3%	-3.6%	-4.8%	-5.0%	-4.2%	-1.1%	-1.1%	0.2%	-0.4%					
2000	-2.1%	-3.9%	-5.5%	-6.2%	-5.1%	-1.2%	-1.1%	0.4%	-0.1%	-0.3%				
2001	-2.0%	-3.9%	-6.1%	-7.3%	-6.0%	-1.9%	-1.0%	0.5%	-0.8%	0.0%	-1.4%			
2002	-1.8%	-4.2%	-6.9%	-8.1%	-6.4%	-2.3%	-1.4%	0.1%	-1.0%	0.7%	-1.6%	-1.9%		
2003	-1.7%	-4.4%	-7.4%	-8.6%	-6.8%	-2.6%	-1.9%	-0.7%	-1.1%	1.0%	-0.2%	-0.5%	-1.7%	
2004	-1.5%	-4.7%	-8.2%	-9.3%	-7.0%	-2.8%	-2.1%	-1.4%	-1.2%	1.2%	0.6%	0.3%	-1.1%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-12: Durchschnittlicher Emissionsfaktor des Stromesatzes, historische Entwicklung, Projektionen und Trendfehler

Emissionsfaktor Strom g/kWh delivered														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
	0.00													
	0.00													
1983	195													
1984	192													
1985	192													
1986	188													
1987	189													
1988	188													
1989	190													
1990	184	182												
1991	181	180	177											
1992	182	180	177	175										
1993	183	178	173	176	177									
1994	181	177	172	176	174	173								
1995	178	176	171	175	172	170	172							
1996	179	176	172	176	170	169	168	171						
1997	182	176	172	175	170	169	171	178	174					
1998	183	176	172	175	169	169	172	180	180	174				
1999	182	175	171	173	169	170	172	178	183	178	172			
2000	185	175	172	173	169	170	170	177	181	180	173	175		
2001	184	176	172	173	169	171	169	178	181	181	175	176	184	
2002	181	175	172	173	169	171	169	177	179	181	175	172	174	180
2003	183	175	172	173	170	172	169	177	178	182	175	172	171	180
2004	181	175	172	174	171	172	169	176	177	182	174	171	171	176
2005		175	171	173	171	174	170	176	175	182	173	172	172	177
Steigung in %	-0.1%	-0.2%	-0.2%	-0.1%	-0.2%	0.1%	-0.1%	0.0%	-0.2%	0.5%	0.1%	-0.5%	-1.4%	-0.7%
CO2-gewichteter Trendfehler														
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991	-0.5%													
1992	-0.5%	0.1%												
1993	-1.0%	-0.8%	0.3%											
1994	-1.2%	-1.0%	0.1%	-0.7%										
1995	-1.3%	-1.2%	0.0%	-1.0%	-0.7%									
1996	-1.4%	-1.1%	0.1%	-1.4%	-0.9%	-0.8%								
1997	-1.4%	-1.0%	0.0%	-1.4%	-1.0%	-0.2%	1.6%							
1998	-1.5%	-1.1%	-0.1%	-1.6%	-1.0%	0.0%	2.0%	1.3%						
1999	-1.8%	-1.3%	-0.4%	-1.7%	-0.9%	0.0%	1.5%	1.9%	0.9%					
2000	-1.7%	-1.3%	-0.5%	-1.9%	-0.9%	-0.5%	1.4%	1.5%	1.2%	0.3%				
2001	-1.6%	-1.3%	-0.6%	-1.7%	-0.7%	-0.6%	1.7%	1.5%	1.5%	0.6%	0.3%			
2002	-1.7%	-1.2%	-0.7%	-1.7%	-0.6%	-0.7%	1.3%	1.1%	1.4%	0.5%	-0.8%	-2.0%		
2003	-1.8%	-1.3%	-0.6%	-1.7%	-0.4%	-0.6%	1.2%	0.9%	1.6%	0.6%	-0.7%	-2.6%	0.1%	
2004	-1.8%	-1.3%	-0.4%	-1.4%	-0.3%	-0.7%	1.0%	0.5%	1.7%	0.4%	-0.9%	-2.6%	-0.9%	
Trendfehler														
	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990														
1991	-1.4%													
1992	-1.3%	0.2%												
1993	-2.6%	-2.1%	0.7%											
1994	-3.2%	-2.8%	0.2%	-1.8%										
1995	-3.6%	-3.2%	0.1%	-2.8%	-1.8%									
1996	-3.7%	-3.1%	0.3%	-3.9%	-2.5%	-2.2%								
1997	-3.9%	-2.8%	0.0%	-3.8%	-2.6%	-0.5%	4.2%							
1998	-3.9%	-2.9%	-0.3%	-4.3%	-2.7%	0.0%	5.3%	3.4%						
1999	-4.6%	-3.4%	-1.1%	-4.4%	-2.2%	-0.1%	4.0%	5.0%	2.4%					
2000	-4.2%	-3.2%	-1.2%	-4.9%	-2.4%	-1.2%	3.6%	3.8%	3.2%	0.7%				
2001	-4.1%	-3.3%	-1.6%	-4.3%	-1.8%	-1.6%	4.3%	3.8%	3.7%	1.5%	0.6%			
2002	-4.3%	-3.2%	-1.7%	-4.4%	-1.5%	-1.7%	3.3%	2.7%	3.5%	1.3%	-2.0%	-5.2%		
2003	-4.6%	-3.2%	-1.4%	-4.2%	-1.1%	-1.6%	3.1%	2.3%	4.1%	1.5%	-1.8%	-6.7%	0.1%	
2004	-4.7%	-3.3%	-1.0%	-3.6%	-0.8%	-1.9%	2.5%	1.2%	4.3%	1.0%	-2.2%	-6.7%	-2.2%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-13: CO₂-Emissionen des Stromesinsatzes, historische Entwicklung, Projektionen und Trendfehler

CO2 electricity mio t		Actual													
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
		0.00													
		0.00													
1983		1507													
1984		1574													
1985		1605													
1986		1598													
1987		1665													
1988		1741													
1989		1807													
1990		1796	1772												
1991		1792	1777	1755											
1992		1804	1843	1788	1741										
1993		1884	1829	1767	1794	1808									
1994		1909	1852	1788	1815	1831	1819								
1995		1923	1886	1814	1837	1825	1818	1857							
1996		1994	1917	1848	1860	1816	1821	1856	1895						
1997		2062	1952	1888	1882	1841	1845	1914	1981	1952					
1998		2150	1986	1920	1900	1852	1866	1957	2064	2067	2016				
1999		2162	2013	1943	1903	1864	1893	1994	2072	2137	2097	2040			
2000		2269	2064	1981	1926	1869	1909	2009	2105	2159	2161	2089	2147		
2001		2227	2109	2016	1943	1893	1940	2024	2165	2205	2200	2154	2172	2242	
2002		2249	2150	2052	1960	1913	1973	2051	2176	2216	2235	2206	2153	2126	2249
2003		2293	2188	2086	1993	1941	2011	2088	2200	2229	2286	2257	2228	2164	2255
2004		2311	2230	2116	2021	1975	2050	2115	2223	2230	2331	2293	2276	2218	2257
2005			2279	2142	2030	2003	2091	2152	2266	2245	2367	2321	2331	2262	2322
Steigung in %	2.2%	1.9%	1.7%	1.2%	0.8%	1.4%	1.6%	1.9%	1.6%	2.4%	2.4%	1.7%	0.6%	1.0%	

CO2-gewichteter Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-0.8%												
1992	-0.3%	-0.2%											
1993	-1.4%	-1.4%	0.3%										
1994	-1.7%	-1.8%	-0.1%	-0.4%									
1995	-1.9%	-2.0%	-0.5%	-1.3%	-0.8%								
1996	-2.0%	-2.1%	-0.8%	-2.2%	-1.5%	-0.8%							
1997	-2.2%	-2.2%	-1.1%	-2.5%	-1.8%	-0.4%	0.9%						
1998	-2.4%	-2.4%	-1.6%	-3.1%	-2.2%	-0.4%	1.8%	1.4%					
1999	-2.6%	-2.6%	-2.3%	-3.5%	-2.4%	-0.4%	1.1%	2.0%	0.7%				
2000	-2.4%	-2.7%	-2.6%	-4.2%	-2.9%	-0.9%	0.9%	1.6%	1.2%	0.2%			
2001	-2.4%	-2.8%	-3.0%	-4.4%	-3.0%	-1.4%	1.3%	1.7%	1.1%	0.6%	-0.3%		
2002	-2.4%	-2.8%	-3.4%	-4.7%	-3.1%	-1.6%	0.7%	1.1%	1.0%	0.8%	-1.4%	-2.7%	
2003	-2.4%	-2.9%	-3.5%	-4.9%	-3.1%	-1.6%	0.5%	0.6%	1.2%	1.0%	-0.8%	-2.8%	-0.6%
2004	-2.4%	-3.1%	-3.6%	-4.9%	-3.0%	-1.8%	0.1%	-0.1%	1.2%	0.9%	-0.7%	-2.5%	-1.3%

Trendfehler

	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04
1990													
1991	-2.1%												
1992	-0.8%	-0.5%											
1993	-3.8%	-3.9%	0.7%										
1994	-4.8%	-4.9%	-0.4%	-1.0%									
1995	-5.1%	-5.6%	-1.3%	-3.5%	-2.2%								
1996	-5.6%	-5.8%	-2.2%	-6.0%	-4.1%	-2.1%							
1997	-5.9%	-5.8%	-3.1%	-6.7%	-4.9%	-1.2%	2.4%						
1998	-6.2%	-6.2%	-4.2%	-8.0%	-5.8%	-1.0%	4.5%	3.7%					
1999	-6.8%	-6.9%	-5.9%	-9.2%	-6.3%	-1.2%	2.8%	5.1%	2.0%				
2000	-6.3%	-7.0%	-6.6%	-10.8%	-7.4%	-2.3%	2.4%	4.1%	3.0%	0.4%			
2001	-6.0%	-7.1%	-7.6%	-11.3%	-7.7%	-3.5%	3.3%	4.3%	2.9%	1.5%	-0.8%		
2002	-6.0%	-7.2%	-8.6%	-12.1%	-7.9%	-4.0%	1.9%	2.9%	2.5%	2.0%	-3.5%	-7.0%	
2003	-6.1%	-7.4%	-8.7%	-12.5%	-7.8%	-4.1%	1.2%	1.5%	3.0%	2.5%	-2.0%	-7.1%	-1.6%
2004	-6.1%	-7.8%	-9.1%	-12.5%	-7.7%	-4.6%	0.3%	-0.2%	3.1%	2.2%	-1.7%	-6.5%	-3.3%

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-14: Endenergieeinsatz insgesamt, historische Entwicklung, Projektionen und Trendfehler

fe total															
EJ	Actual														
	AER/MER	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	0.00														
	0.00														
1983	52.98														
1984	55.93														
1985	55.38														
1986	55.70														
1987	57.72														
1988	60.41														
1989	61.02														
1990	60.78	61.16													
1991	60.48	60.57	60.95												
1992	61.85	62.12	62.64	61.75											
1993	62.88	63.05	63.74	63.47	62.74										
1994	64.07	63.71	64.80	64.47	64.53	64.22									
1995	65.15	64.46	65.88	65.26	65.23	65.36	65.77								
1996	67.40	64.81	66.55	65.92	65.70	66.03	67.33	68.01							
1997	67.81	65.09	67.23	66.50	66.56	67.03	68.00	68.58	68.02						
1998	67.43	65.50	67.86	67.10	67.29	67.81	69.24	69.99	68.03	67.73					
1999	68.47	65.88	68.46	67.80	67.96	68.43	70.32	71.48	69.99	69.01	68.98				
2000	69.96	66.34	68.90	68.60	68.55	69.05	71.37	72.39	71.88	70.19	70.19	71.21			
2001	68.57	66.85	69.49	69.25	68.96	69.65	72.14	73.33	73.02	71.12	71.91	70.41	69.20		
2002	69.57	67.31	69.95	69.88	69.55	70.32	72.92	74.31	74.04	72.14	73.50	72.78	70.31	69.35	
2003	69.92	67.78	70.46	70.67	70.17	71.03	73.84	75.18	74.92	73.26	74.90	74.90	71.91	69.79	
2004	71.00	68.10	70.98	71.29	70.88	71.83	74.72	76.15	75.82	74.50	76.09	76.25	73.08	71.37	
2005		68.62	71.46	71.86	71.45	72.57	75.49	77.17	76.84	75.67	77.25	77.47	74.09	73.24	
Steigung in %	1.2%	0.8%	1.1%	1.2%	1.1%	1.1%	1.4%	1.5%	1.7%	1.6%	2.0%	2.0%	1.8%	1.9%	
CO2-gewichteter Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.2%													
1992		-0.9%	1.5%												
1993		-0.6%	2.0%	1.5%											
1994		-0.8%	2.5%	1.9%	1.6%										
1995		-0.8%	3.0%	1.9%	1.5%	0.6%									
1996		-1.4%	2.8%	1.8%	1.0%	0.4%	1.2%								
1997		-2.2%	2.7%	1.5%	1.2%	0.8%	1.0%	-0.3%							
1998		-2.7%	2.5%	1.2%	1.1%	0.8%	1.7%	0.6%	-1.1%						
1999		-3.2%	2.2%	1.1%	1.0%	0.6%	2.1%	1.5%	0.6%	0.7%					
2000		-3.6%	1.7%	1.2%	0.7%	0.3%	2.5%	1.7%	2.1%	1.3%	0.6%				
2001		-3.9%	1.5%	1.0%	0.2%	0.1%	2.4%	1.9%	2.6%	1.5%	1.9%	-2.2%			
2002		-4.3%	1.0%	0.8%	0.0%	0.0%	2.4%	2.1%	2.9%	1.9%	3.1%	0.0%	0.5%		
2003		-4.7%	0.7%	0.9%	-0.2%	-0.1%	2.6%	2.2%	3.0%	2.3%	3.9%	1.8%	1.7%	-0.4%	
2004		-5.3%	0.3%	0.7%	-0.3%	-0.1%	2.7%	2.4%	3.1%	3.0%	4.4%	2.5%	2.2%	0.7%	
Trendfehler															
		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.2%													
1992		-0.9%	1.5%												
1993		-0.6%	2.0%	1.5%											
1994		-0.8%	2.5%	1.9%	1.6%										
1995		-0.8%	3.0%	1.9%	1.5%	0.6%									
1996		-1.4%	2.8%	1.8%	1.0%	0.4%	1.2%								
1997		-2.2%	2.7%	1.5%	1.2%	0.8%	1.0%	-0.3%							
1998		-2.7%	2.5%	1.2%	1.1%	0.8%	1.7%	0.6%	-1.1%						
1999		-3.2%	2.2%	1.1%	1.0%	0.6%	2.1%	1.5%	0.6%	0.7%					
2000		-3.6%	1.7%	1.2%	0.7%	0.3%	2.5%	1.7%	2.1%	1.3%	0.6%				
2001		-3.9%	1.5%	1.0%	0.2%	0.1%	2.4%	1.9%	2.6%	1.5%	1.9%	-2.2%			
2002		-4.3%	1.0%	0.8%	0.0%	0.0%	2.4%	2.1%	2.9%	1.9%	3.1%	0.0%	0.5%		
2003		-4.7%	0.7%	0.9%	-0.2%	-0.1%	2.6%	2.2%	3.0%	2.3%	3.9%	1.8%	1.7%	-0.4%	
2004		-5.3%	0.3%	0.7%	-0.3%	-0.1%	2.7%	2.4%	3.1%	3.0%	4.4%	2.5%	2.2%	0.7%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

Tabelle A 7-15: CO₂-Emissionen insgesamt, historische Entwicklung, Projektionen und Trendfehler

CO2 total															
Mio. t	Actual	AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
	AER/MER														
	MER														
	0.00														
	0.00														
1983	4339														
1984	4581														
1985	4570														
1986	4580														
1987	4739														
1988	4956														
1989	5035														
1990	4989	5006													
1991	4941	4947	4880												
1992	5043	5104	5007	4915											
1993	5129	5115	5053	5061	5031										
1994	5205	5164	5128	5129	5137	5124									
1995	5256	5229	5207	5185	5174	5181	5220								
1996	5444	5282	5270	5238	5189	5223	5295	5364							
1997	5511	5317	5335	5289	5259	5295	5381	5475	5425						
1998	5553	5357	5400	5335	5310	5355	5491	5622	5521	5446					
1999	5631	5413	5447	5377	5358	5417	5586	5711	5689	5573	5540				
2000	5799	5469	5504	5436	5393	5463	5658	5784	5810	5692	5630	5726			
2001	5692	5561	5563	5481	5441	5526	5715	5893	5913	5777	5781	5723	5715		
2002	5729	5608	5619	5530	5489	5588	5781	5957	5976	5865	5909	5808	5633	5729	
2003	5796	5667	5672	5598	5551	5660	5863	6026	6036	5971	6023	5981	5749	5743	
2004	5863	5721	5724	5657	5622	5735	5934	6098	6084	6078	6114	6095	5856	5826	
2005		2279	2142	2030	2003	2091	2152	2266	2245	2367	2321	2331	2262	2322	
Steigung in %	1.3%	-0.5%	-0.6%	-1.0%	-1.4%	-1.6%	-1.9%	-2.3%	-3.1%	-4.0%	-5.4%	-7.8%	-11.7%	-17.7%	
	1.6%														
CO2-gewichteter Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.6%													
1992		-0.8%	1.2%												
1993		-2.0%	0.7%	1.6%											
1994		-2.4%	0.9%	1.6%	0.7%										
1995		-2.4%	1.1%	1.3%	0.1%	-0.2%									
1996		-2.7%	1.0%	1.0%	-0.9%	-0.7%	0.1%								
1997		-3.3%	0.9%	0.7%	-0.8%	-0.6%	0.4%	0.8%							
1998		-3.8%	0.8%	0.3%	-1.2%	-0.8%	1.2%	2.2%	0.5%						
1999		-4.1%	0.4%	-0.2%	-1.5%	-0.9%	1.7%	2.5%	2.2%	1.0%					
2000		-4.3%	0.2%	-0.3%	-2.1%	-1.3%	1.7%	2.5%	3.1%	1.9%	0.4%				
2001		-3.9%	0.1%	-0.8%	-2.4%	-1.4%	1.4%	3.1%	3.7%	2.2%	1.8%	-1.3%			
2002		-4.2%	-0.1%	-1.1%	-2.8%	-1.5%	1.4%	3.0%	3.5%	2.5%	2.8%	-1.0%	-2.6%		
2003		-4.4%	-0.4%	-1.1%	-2.9%	-1.4%	1.6%	3.0%	3.3%	3.1%	3.5%	0.7%	-1.8%	-1.0%	
2004		-4.6%	-0.7%	-1.2%	-2.8%	-1.3%	1.6%	3.0%	2.9%	3.7%	3.9%	1.4%	-1.1%	-0.7%	
		-3.2%	0.5%	0.2%	-1.5%	-1.0%	1.2%	2.5%	2.7%	2.4%	2.5%	0.0%	-1.9%	-0.8%	
Trendfehler		AEO'92	AEO'93	AEO'94	AEO'95	AEO'96	AEO'97	AEO'98	AEO'99	AEO'00	AEO'01	AEO'02	AEO'03	AEO'04	
1990															
1991		-2.6%													
1992		-0.8%	1.2%												
1993		-2.0%	0.7%	1.6%											
1994		-2.4%	0.9%	1.6%	0.7%										
1995		-2.4%	1.1%	1.3%	0.1%	-0.2%									
1996		-2.7%	1.0%	1.0%	-0.9%	-0.7%	0.1%								
1997		-3.3%	0.9%	0.7%	-0.8%	-0.6%	0.4%	0.8%							
1998		-3.8%	0.8%	0.3%	-1.2%	-0.8%	1.2%	2.2%	0.5%						
1999		-4.1%	0.4%	-0.2%	-1.5%	-0.9%	1.7%	2.5%	2.2%	1.0%					
2000		-4.3%	0.2%	-0.3%	-2.1%	-1.3%	1.7%	2.5%	3.1%	1.9%	0.4%				
2001		-3.9%	0.1%	-0.8%	-2.4%	-1.4%	1.4%	3.1%	3.7%	2.2%	1.8%	-1.3%			
2002		-4.2%	-0.1%	-1.1%	-2.8%	-1.5%	1.4%	3.0%	3.5%	2.5%	2.8%	-1.0%	-2.6%		
2003		-4.4%	-0.4%	-1.1%	-2.9%	-1.4%	1.6%	3.0%	3.3%	3.1%	3.5%	0.7%	-1.8%	-1.0%	
2004		-4.6%	-0.7%	-1.2%	-2.8%	-1.3%	1.6%	3.0%	2.9%	3.7%	3.9%	1.4%	-1.1%	-0.7%	

Quelle: AEOs, diverse Jahrgänge, AERs 2003, 2005, eigene Berechnungen

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