

**Table 8.3c Useful Thermal Output at Combined-Heat-and-Power Plants: Commercial and Industrial Sectors, Selected Years, 1989-2011** (Subset of Table 8.3a; Trillion Btu)

Year	Fossil Fuels					Renewable Energy			Other <sup>7</sup>	Total
	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural Gas <sup>3</sup>	Other Gases <sup>4</sup>	Total	Biomass		Total		
						Wood <sup>5</sup>	Waste <sup>6</sup>			
<b>Commercial Sector <sup>8</sup></b>										
1989	14	4	10	(s)	27	(s)	10	10	—	38
1990	15	5	16	(s)	36	(s)	10	11	—	46
1995	17	3	29	—	48	(s)	15	15	(s)	63
1996	20	3	33	R —	55	1	17	18	—	73
1997	22	4	40	(s)	66	1	19	20	—	86
1998	20	5	39	(s)	64	1	18	18	—	82
1999	20	3	37	R —	61	1	17	17	—	78
2000	21	4	39	R —	64	1	17	18	—	82
2001	18	4	35	—	58	1	8	8	6	72
2002	18	3	36	—	57	1	6	7	5	69
2003	23	3	17	—	42	1	8	8	6	57
2004	22	4	22	—	49	(s)	8	9	6	64
2005	23	4	20	—	47	(s)	8	9	6	61
2006	22	2	19	(s)	44	(s)	9	9	6	59
2007	23	2	20	—	44	1	6	7	4	55
2008	23	2	20	—	45	(s)	9	9	6	60
2009	20	1	26	—	47	(s)	8	8	6	61
2010	R19	1	R30	R(s)	R50	(s)	R8	8	5	R63
2011 <sup>P</sup>	17	1	28	(s)	46	(s)	8	8	6	60
<b>Industrial Sector <sup>9</sup></b>										
1989	297	84	385	90	856	527	15	542	38	1,437
1990	327	113	443	137	1,019	632	20	652	40	1,711
1995	329	105	540	140	1,114	706	20	726	44	1,884
1996	329	118	557	146	1,150	684	21	705	43	1,897
1997	328	121	541	142	1,132	713	22	735	53	1,920
1998	318	124	601	162	1,206	689	24	713	46	1,965
1999	313	115	629	175	1,233	679	18	697	48	1,978
2000	309	98	615	179	1,201	700	20	720	50	1,971
2001	284	80	542	128	1,034	548	16	564	46	1,644
2002	278	66	458	112	914	537	15	552	39	1,505
2003	272	75	393	101	842	588	16	604	46	1,491
2004	290	85	393	108	876	628	13	641	35	1,553
2005	280	81	364	102	827	618	20	638	32	1,496
2006	272	69	377	103	821	642	21	663	39	1,523
2007	266	67	322	96	751	605	21	625	38	1,414
2008	255	39	285	89	668	563	21	584	13	1,265
2009	223	45	296	80	644	500	21	521	22	1,188
2010	R243	R34	R308	R72	R657	R531	R24	R556	R18	R1,231
2011 <sup>P</sup>	241	29	297	81	648	533	23	557	5	1,209

<sup>1</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal symfuel.

<sup>2</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

<sup>3</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>4</sup> Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

<sup>5</sup> Wood and wood-derived fuels.

<sup>6</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>7</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>8</sup> Commercial combined-heat-and-power (CHP) plants.

<sup>9</sup> Industrial combined-heat-and-power (CHP) plants.

R=Revised. P=Preliminary. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • See Table 8.3b for electric power sector CHP data. • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • See "Useful Thermal Output" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Pages: • See <http://www.eia.gov/totalenergy/data/annual/#electricity> for all data beginning in 1989.

• For related information, see <http://www.eia.gov/electricity/>.

Sources: • 1989-1997—U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000—EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001-2003—EIA, Form EIA-906, "Power Plant Report." • 2004-2007—EIA, Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward—EIA, Form EIA-923, "Power Plant Operations Report."