Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002;

 Level: National Data;

 Row: NAICS Codes;

 Column: Usage within Cogeneration Technologies;

 Unit: Establishment Counts.

Steam Turbines Supplied by Either	Conventional Combusion Turbines with
Conventional or Fluidized Bed Boilers	Heat Recovery

NAICS Code(a)	Subsector and Industry	Establishments(b)	Establishments with Any Cogeneration Technology in Use(c)	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know
		Total United States							
	RSE Column Factors:	C	1	0.7	0.8	1.7	0.6	0.8	1.7
311	Food	15,089		131	13,850	1,109	80	13,729	,
311221	Wet Corn Milling	49		8	40	1	3	45	
31131	Sugar	77		44	27	5	8	61	8
311421	Fruit and Vegetable Canning	468		42	375	51	44	374	
312	Beverage and Tobacco Products	1,595		12	1,398	185	3	1,444	
3121	Beverages	1,517		9	1,326	183	3	1,369	
3122	Tobacco	78		4	72	2	0	76	
313	Textile Mills	2,247		8	2,141	98	W	2,147	
314	Textile Product Mills	3,457		0	2,973	484	W	2,972	
315	Apparel	5,500		0	4,480	1,020	W	4,633	
316	Leather and Allied Products	685		0	554	145	0	528	
321	Wood Products	10,486		62	9,725	700	10	9,775	
321113		2,235		31	1,969	235	5	1,997	
3212	Veneer, Plywood, and Engineered Woods	1,478		3	1,413	61	W	1,410	
3219	Other Wood Products	6,461		26	6,066	368	W	6,091	W
322	Paper	4,257		174	3,752	330	26	3,890	
322110	Pulp Mills	34		17	14	3	W	29	
322121	Paper Mills, except Newsprint	323		80	234	10	10	303	
322122	Newsprint Mills	21		6	14	1	W	18	
322130	Paperboard Mills	210		70	132	8	11	188	
323	Printing and Related Support	20,220		4	17,748	2,468	W	17,751	W
324	Petroleum and Coal Products	1,916		45	1,616	256	25	1,608	
324110	Petroleum Refineries	215		39	169	7	25	182	8
324199	Other Petroleum and Coal Products	47		6	36	5	0	32	
325	Chemicals	8,909		163	8,309	437	89	8,355	
325110		37		10	21	6	8	23	
325120	Industrial Gases	527		W	519	W	W	521	W
325181	Alkalies and Chlorine	33		3	29	1	W	30	
325182	Carbon Black	22	4	W	W	0	W	W	
325188	Other Basic Inorganic Chemicals	515	19	11	454	50	W	463	W
325192	Cyclic Crudes and Intermediates	37	5	3	31	2	W	32	W
325193	Ethyl Alcohol	48	W	W	40	W	0	43	5
325199	Other Basic Organic Chemicals	578	76	61	508	10	16	540	22
325211	Plastics Materials and Resins	709	15	6	671	31	9	668	32
325212	Synthetic Rubber	125	11	4	116	6	8	111	6
325222	Noncellulosic Organic Fibers	64	6	5	58	1	W	60	W
325311	Nitrogenous Fertilizers	56	13	6	42	7	6	43	
325312	Phosphatic Fertilizers	27		16	11	0	W	W	0
3254	Pharmaceuticals and Medicines	1,143	20	12	1,095	36	10	1,097	
325412		606	12	8	569	29	8	569	29
325992	Photographic Film, Paper, Plate, and Chemicals	171	W	W	W	0	0	171	0
326	Plastics and Rubber Products	10,538	16	4	10,042	493	W	9,938	W
327	Nonmetallic Mineral Products	11,593	24	4	10,416	1,174	W	10,401	W
3272	Glass and Glass Products	1,047	10	0	1,011	36	0	944	103

 Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002;

 Level: National Data;

 Row: NAICS Codes;

 Column: Usage within Cogeneration Technologies;

 Unit: Establishment Counts.

		Combined-0	Combined-Cycle Combusion Turbines			Internal Combusion Engines with Heat Recovery			Steam Turbines Supplied by Heat Recovered from High-Temperature Processes		
NAICS Code(a)	Subsector and Industry	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	RSE Row Factors
	RSE Column Factors:	0.6	0.8	1.6	1.1	0.8	1.8	0.8	0.8	1.6	
311	Food	111	13,695	1,283	66	13,808	1,215	Q	13,675	1,284	8.7
311221	Wet Corn Milling	W			0	47	2	0	48	1,204	0.7
31131	Sugar	Ŵ			0	69	- 8	5	64	. 8	-
311421	Fruit and Vegetable Canning	0	416	52	4	415	49	4	374	91	6.5
312	Beverage and Tobacco Products	W	1,445	W	5	1,442	147	5	1,452	138	7.6
3121	Beverages	W	1,370	W	5	1,367	145	5	1,376	135	8.1
3122	Tobacco	0	76	2	0	76	2	0	76	2	0.9
313	Textile Mills	0	_,					16	2,119	112	
314	Textile Product Mills	0	_,			2,972		0	3,051	406	
315	Apparel	0	.,				1,034	0	4,620	880	
316	Leather and Allied Products	0	020		0		157	0	528	157	12.9
321	Wood Products	W	-,		27	9,729	731	22	9,745	720	
321113	Sawmills	0	_,	236		1,997	W	7	1,986	243	
3212	Veneer, Plywood, and Engineered Woods	0		67	0	,		W	1,413	W	
3219	Other Wood Products	W	- /	W	24	6,043	394	12	6,069	380	
322	Paper Dula Milla	21	- /	347 5	6 0	3,899	352 3	48 6	3,865	344	
322110	Pulp Mills	0			0	31		б 27	26 273	1	1
322121	Paper Mills, except Newsprint	9 W			0	298 20	25 1	27	273	23 1	6.7 1
322122 322130	Newsprint Mills Paperboard Mills	8				20 191	Ŵ	14	20 181	15	
322130	Printing and Related Support	88				17,664	W	4	17,748	2.468	
323	Petroleum and Coal Products	12		,		1,635	Ŵ	49	1,603	2,400	
324110	Petroleum Refineries	12	/			197	Ŵ	40 W	160	204 W	1.3
324199	Other Petroleum and Coal Products	0						Ŵ	30	Ŵ	
325	Chemicals	41				8,382		113	8,290	506	
325110		Ŵ			W	30	W	11	20	6	
325120	Industrial Gases	W	520	W	0	522	5	W	517	W	
325181	Alkalies and Chlorine	3	29	1	0	32	1	W	30	W	
325182	Carbon Black	0	21	1	0	22	0	W	W	0	1.2
325188	Other Basic Inorganic Chemicals	W	463	W	5	459	51	9	455	50	7.6
325192	Cyclic Crudes and Intermediates	W	33	W	0	35	2	3	31	2	1
325193	Ethyl Alcohol	0			0	40	8	0	40	8	
325199	Other Basic Organic Chemicals	8				528	46	26	506	47	
325211	Plastics Materials and Resins	8				677	32	11	666	32	
325212	Synthetic Rubber	W			0	119	6	0	118	7	
325222	Noncellulosic Organic Fibers	0			0	63	1	W	61	W	
325311	Nitrogenous Fertilizers	W			0	49	7	11	37	7	-
325312	Phosphatic Fertilizers	0	=•		W	W	0	16	10	1	1.1
3254	Pharmaceuticals and Medicines	W	.,		W	1,096	W	W	1,098	W	•.•
325412	Pharmaceutical Preparation	W			W	575	W	W	575	W	
325992	Photographic Film, Paper, Plate, and Chemicals	W		0	0		0	0	170	1	
326	Plastics and Rubber Products	W			12		679	W	10,012		
327 3272	Nonmetallic Mineral Products Glass and Glass Products	VV O	-)		15 10	10,392 936	1,187 101	3 0	10,502 1,011	1,089 36	
3212	Glass and Glass FIUduuls	0	945	102	10	930	101	0	1,011	30	13.5

Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002; Level: National Data; Row: NAICS Codes; Column: Usage within Cogeneration Technologies; Unit: Establishment Counts.

Steam Turbines Supplied by Either	Conventional Combusion Turbines with
Conventional or Fluidized Bed Boilers	Heat Recovery

NAICS			Establishments with Any Cogeneration						
Code(a)	Subsector and Industry	Establishments(b)	Technology in Use(c)	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know
327211	Flat Glass	38	0	0	30	8	0	29	9
327213	Glass Containers	61	W	0	58	3	0	57	4
327310	Cements	195	7	W	190	W	0	192	3
327410	Lime	65	W	0	62	3	0	62	3
327993	Mineral Wool	207	0	0	207	1	0	207	1
331	Primary Metals	4,166	31	14	3,881	272	9	3,879	279
331111	Iron and Steel Mills	771	12	9	656	106	W	665	W
331112	Electrometallurgical Ferroalloy Products	15	0	0	13	2	0	13	2
3312	Steel Products from Purchased Steel	548	0	0	524	24	0	526	22
3313	Alumina and Aluminum	446	W	W	394	W	W	388	W
331312	Primary Aluminum	41	0	0	40	1	0	40	1
3314	Nonferrous Metals, except Aluminum	671	W	W	643	W	W	643	W
3315	Foundries	1,715	12	W	1,651	W	5	1,644	66
331511	Iron Foundries	453	3	0	447	6	W	446	W
331521	Aluminum Die-Casting Foundries	227	W	0	212	15	W	223	W
331524	Aluminum Foundries, except Die-Casting	341	W	0	333	8	W	327	W
332	Fabricated Metal Products	35,349	71	0	32,565	2,784	0	32,257	3,092
333	Machinery	17,381	W	W	16,144	W	W	16,146	W
334	Computer and Electronic Products	9,238	8	W	8,863	W	0	8,865	373
334413	Semiconductors and Related Devices	578	W	0	577	1	0	576	2
335	Electrical Equip., Appliances, and Components	3,886	9	W	3,490	W	W	3,490	W
336	Transportation Equipment	7,653	39	14	7,187	452	10	7,191	452
336112	J · · · · · · · · · · · · · · · · · · ·	42	3	W	39	W	0	40	2
337	Furniture and Related Products	10,941	22	8	9,834	1,100	11	9,836	1,094
339	Miscellaneous	15,605	52	4	14,039	1,562	W	14,057	W
	Total	200,710	1,479	653	183,007	17,050	287	182,892	17,531

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

(b) The 'Establishments' column includes those units which reported any of the five listec cogeneration technologies in use anytime in 2002, plus those units where usage of those cogeneration technologies was not ascertained.

(c) This count includes only those establishments that reported any of the five listec cogeneration technologies in use anytime in 2002.

(d) This count includes only those establishments that reported this

cogeneration technology in use anytime in 2002.

NF=No applicable RSE row/column factor.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent. NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.' Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002; Level: National Data; Row: NAICS Codes; Column: Usage within Cogeneration Technologies; Unit: Establishment Counts.

			Combined-Cycle Combusion Turbines			Internal Combusion Engines with Heat Recovery			Recovered from High-Temperature Processes		
NAICS Code(a)	Subsector and Industry	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	RSE Row Factors
327211	Flat Glass	0	30	8	0	30	8	0	30	8	0.9
327213	Glass Containers	0	57	4	W	57	W	0	57	4	
327310	Cements	W	192	W	W	188	W	3	190	2	1.6
327410	Lime	0	60	5	W	60	W	0	62	3	0.9
327993	Mineral Wool	0	207	1	0	207	1	0	207	1	2.7
331	Primary Metals	W	3,870	W	8	3,872	286	12	3,882	272	3.4
331111	Iron and Steel Mills	0	666	105	0	666	105	8	657	106	7.1
331112	Electrometallurgical Ferroalloy Products	0	13	2	0	13	2	0	13	2	0.9
3312	Steel Products from Purchased Steel	0	523	25	0	526	22	0	524	24	3.3
3313	Alumina and Aluminum	W	388	W	0	388	58	0	389	57	3.1
331312	Primary Aluminum	0	40	1	0	40	1	0	40	1	1.7
3314	Nonferrous Metals, except Aluminum	0	632	39	W	642	W	W	642	W	2.7
3315	Foundries	0	1,648	67	W	1,637	W	W	1,658	W	3.6
331511	Iron Foundries	0	447	6	W	444	W	0	447	6	3.6
331521	Aluminum Die-Casting Foundries	0	220	7	0	218	9	0	223	4	1.1
331524	Aluminum Foundries, except Die-Casting	0	328	13	0	327	14	W	328	W	2.8
332	Fabricated Metal Products	0	32,272	3,077	W	32,137	W	W	32,428	W	÷
333	Machinery	0	16,145	1,236	0	15,938	1,443	0	16,143	1,238	
334	Computer and Electronic Products	0	8,863	375	5	8,852	381	0	8,864	374	
334413	Semiconductors and Related Devices	0	576	2	W	567	W	0	576	2	
335	Electrical Equip., Appliances, and Components	0	3,491	395	Q	3,471	407	0	3,499	387	8
336	Transportation Equipment	W	7,218	W	14	7,122	517	W	7,146	W	
336112	Light Trucks and Utility Vehicles	0	40	2	W	39	W	W	39	W	
337	Furniture and Related Products	W	9,768	W	W	9,668	W	W	9,729	W	••••
339	Miscellaneous	W	14,026	W	39	14,035	1,532	40		1,532	
	Total	296	182,713	17,701	308	181,975	18,427	453	182,935	17,322	2.9

Steam Turbines Supplied by Heat

L

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

(b) The 'Establishments' column includes those units which reported any of the five lister cogeneration technologies in use anytime in 2002, plus those units where usage of those cogeneration technologies was not ascertained.

(c) This count includes only those establishments that reported any of the five listec cogeneration technologies in use anytime in 2002.

(d) This count includes only those establishments that reported this

cogeneration technology in use anytime in 2002.

NF=No applicable RSE row/column factor.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent. NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'