Released: July 2013 Next MECS will be fielded in 2015 Table 10.3 Number of Establishments with Capability to Switch Natural Gas to Alternative Energy Sources, 2010; Level: National Data; Row: NAICS Codes; Column: Energy Sources; Unit: Establishment Counts.

Natural Gas(b)

Alternative Energy Sources(c)

NAICS Code(a)	Calantad Cubanatara and Industry					m					
	Selected Subsectors and Industry	Total Establishments Consuming Natural Gas(d	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	and Breeze	Other(f)
		Total United States									
	-ood	10,373	1,667	8,630	339	675	166	Q	656	W	107
	Grain and Oilseed Milling	489 50	146	380	5 W	39 W	25 W	10 W	82 7	W	Q W
	Wet Corn Milling Sugar Manufacturing	67	16 5	42 64	vv 0	W	W	W	0	0	W
	Fruit and Vegetable Preserving and Specialty Foods	839	145	726	8	30	26	0	98	0	0
	Dairy Products	908	222	709	44	130	38	W	90	0	11
	Animal Slaughtering and Processing Beverage and Tobacco Products	1,262 1,242	351 301	976 1,047	99 124	167 35	60 34	W 12	119 167	0	75 13
	Beverages	1,193	280	1,012	119	24	30	W	161	8	W
3122	Tobacco	48	21	34	5	11	5	W	6	0	W
	Textile Mills	1,059	213	855	98	70	57	W	76	0	Q
	Textile Product Mills Apparel	1,969 1,979	Q Q	1,424 1,757	Q W	W 18	W W	W 0	W 0	0	0
	Leather and Allied Products	231	Q	218	0	W	0	0	w	0	0
	Vood Products	3,146	303	2,716	174	31	23	W	156	0	42
321113		346	56	261	20	16	W	W	22	0	11
	Veneer, Plywood, and Engineered Woods Reconstituted Wood Products	628 137	66 21	536 125	31 W	8	12 W	W 0	32 Q	0	14 W
	Other Wood Products	2,014	170	1,773	W	w W	W	0	Q	0	Q Q
	Paper	2,984	447	2,550	W	182	132	16	97	4	13
322110		32	17	24	W	7	9	0	W	0	W
	Paper Mills, except Newsprint	177 15	59 9	159 9	6 0	18 9	25 W	W W	7	W	W 0
	Newsprint Mills Paperboard Mills	147	78	111	9	34	43	7	5	w	7
	Printing and Related Support	10,055	992	7,992	958	45	0	w	Q	0	
324 F	Petroleum and Coal Products	1,317	486	963	63	284	176	4	117	W	47
	Petroleum Refineries	204	78	186	15	7	12	W	W	0	W
	Asphalt Paving Mixture and Block Other Petroleum and Coal Products	767 44	368 3	453 41	39 W	258 0	159 0	W W	57 0	W 0	31 0
	Chemicals	6,339	957	5,473	412	412	198	20	317	4	q
	Petrochemicals	38	10	35	3	3	3	0	W	0	W
	Industrial Gases	176	Q	110	Q	0	0	0	0	0	0
	Alkalies and Chlorine Carbon Black	27 29	6 W	25 W	W 0	W 0	0 W	0	0	0	W 0
	Other Basic Inorganic Chemicals	399	70	366	w	55	W	w	6	0	5
	Cyclic Crudes and Intermediates	23	W	W	0	W	0	0	0	0	0
	Ethyl Alcohol	170	24	161	0	10	0	W	10	0	10
	Other Basic Organic Chemicals Plastics Materials and Resins	423 627	64 55	395 581	6 15	28 33	Q 7	W 0	4 7	0	W W
	Synthetic Rubber	78	16	62	5	9	w	w	5	0	W
	Noncellulosic Organic Fibers	59	27	42	7	19	8	4	4	W	0
	Nitrogenous Fertilizers	44	4	39	W	3	0	0	3	0	0
	Phosphatic Fertilizers Pharmaceuticals and Medicines	32 956	4 143	31 873	W 50	W 102	W 7	0 W	W 14	0 W	0 5
	Pharmaceutical Preparation	500	85	455	21	64	w	w	9	0	W
	Photographic Film, Paper, Plate, and Chemicals	117	37	92	W	12	W	0	24	0	0
	Plastics and Rubber Products	6,374	873	5,280	578	209	Q	W	334	W	Q
	Nonmetallic Mineral Products	6,460	1,058	5,366	620 0	276 W	25 7	33 12	492 9	W	20 7
	Brick and Structural Clay Tile Flat Glass	146 47	28 12	125 41	0	vv 6	0	12	6	0	v v
	Other Pressed and Blown Glass and Glassware	140	14	129	0	W	W	0	10	0	W
327213	Glass Containers	63	25	57	7	6	W	0	18	0	W
	Glass Products from Purchased Glass	410	32	372	21	W	0	W	12	0	W
	Cements Lime	127 43	56 4	89 40	Q W	12 W	9	16 W	7	W 0	W 0
	Gypsum	113	14	105	W	12	0	0	5	0	0
	Mineral Wool	150	6	148	W	W	0	0	W	0	0
	Primary Metals	2,699	392	2,410	142	54	32	9	198	W	21
	Iron and Steel Mills	345 17	33 W	321 W	12 W	W 0	W 0	W 0	7 0	W 0	5 0
	Electrometallurgical Ferroalloy Products Steel Products from Purchased Steel	319	W	W	W	W	W	0	28	0	0

Table 10.3 Number of Establishments with Capability to Switch Natural Gas to Alternative Energy Sources, 2010;

Level: National Data; Row: NAICS Codes; Column: Energy Sources; Unit: Establishment Counts.

Natural Gas(b)

Alternative Energy Sources(c)

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										Coal Coke	
NAICS	Selected Subsectors and Industry	Total Establishments	Switchable	Not Switchable	Electricity	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	and	O4h-==(6)
Code(a)	Selected Subsectors and Industry	Consuming Natural Gas(d	Switchable	Switchable	Receipts(e)	ruei Oii	ruei Oii	Coai	LPG	Breeze	Other(f)
3313	Alumina and Aluminum	288	45	265	20	12	0	0	22	0	0
331314	Secondary Smelting and Alloying of Aluminum	71	10	70	6	W	0	0	W	0	0
331315	Aluminum Sheet, Plate and Foils	61	7	60	W	W	0	0	W	0	0
331316	Aluminum Extruded Products	128	23	111	9	W	0	0	15	0	0
3314	Nonferrous Metals, except Aluminum	486	93	401	16	13	Q	W	60	W	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Ali	u 69	10	64	5	5	0	0	W	0	0
3315	Foundries	1,244	175	1,119	87	13	6	W	81	W	Q
331511	Iron Foundries	313	61	259	18	W	W	W	47	0	0
331521	Aluminum Die-Casting Foundries	135	35	112	21	W	0	0	15	0	W
331524	Aluminum Foundries, except Die-Casting	248	21	235	16	W	0	0	4	0	W
332	Fabricated Metal Products	23,127	1,942	19,562	1,098	Q	W	0	1,280	0	Q
333	Machinery	10,772	920	9,359	720	Q	Q	0	268	0	Q
334	Computer and Electronic Products	4,021	504	3,343	393	86	W	0	65	0	0
334413	Semiconductors and Related Devices	291	14	290	0	13	W	0	0	0	0
335	Electrical Equip., Appliances, and Components	2,786	241	2,617	Q	25	19	0	Q	0	Q
336	Transportation Equipment	4,667	634	4,021	270	Q	16	W	334	0	Q
336111	Automobiles	44	W	W	0	W	0	W	0	0	W
336112	Light Trucks and Utility Vehicles	38	W	W	W	W	0	0	W	0	0
3364	Aerospace Product and Parts	895	161	768	62	52	W	0	73	0	W
336411	Aircraft	255	59	240	W	Q	8	0	Q	0	W
337	Furniture and Related Products	5,022	557	3,875	376	Q	Q	0	Q	0	0
339	Miscellaneous	9,377	1,044	7,673	778	Q	W	W	408	W	Q
	Total	115,999	13,898	97,130	7,714	2,890	1,363	591	5,303	Q	915

- (a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
- (b) These counts include only those establishments that reported this activity in 2010.
- (c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for natural gas during 2010. The quantities are expressed in billions of cubic feet, and therefore represent the quantity of natural gas that could have been displaced by the given alternative type of energy.
- (d) Total Consumed represents those quantities (Total Inputs) of natural gas that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
- (e) 'Electricity Receipts' represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. 'Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
- (f) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of natural gas. 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: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Office of Energy

Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey.'

RSE Table 10.3 Relative Standard Errors for Table 10.3; Unit: Percents.

Natural Gas(b) Alternative Energy Sources(c)

NAICS Code(a)	Selected Subsectors and Industry	Total Establishments Consuming Natural Gas(d	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
		Total United States									
311	Food	3.4	12.4	4.5	34.1	16.0	17.2	69.0	19.2	72.4	24.7
3112	Grain and Oilseed Milling	5.0	19.2	8.6	4.5	19.0	22.1	35.1	33.6	72.4	50.6
311221 31131	Wet Corn Milling Sugar Manufacturing	0.0	0.0	0.0	0.0 X	0.0	0.0 0.0	0.0	0.0 X	X X	0.0
3114	Fruit and Vegetable Preserving and Specialty Foods	5.3	24.7	7.1	18.5	13.7	18.8	0.0 X	36.4	X	0.0 X
3115	Dairy Products	3.8	13.1	5.7	16.3	19.9	28.3	6.7	27.5	X	40.0
3116	Animal Slaughtering and Processing	5.8	16.1	7.6	37.3	20.9	39.3	91.9	37.9	X	31.9
312	Beverage and Tobacco Products	8.0	20.6	9.3	32.4	12.3	25.5	30.0	33.1	43.4	27.3
3121	Beverages	8.3 0.0	22.1 0.0	9.6 0.0	33.7 0.0	18.2 0.0	29.5 0.0	33.3 0.0	34.2 0.0	43.4 X	30.0 0.0
3122 313	Tobacco Textile Mills	6.2	22.3	8.9	40.1	34.0	37.7	54.1	37.4	X	70.7
314	Textile Product Mills	16.6	60.3	22.2	67.1	12.7	46.5	98.3	50.3	X	X X
315	Apparel	23.6	67.6	26.1	98.5	41.1	54.7	X	X	X	X
316	Leather and Allied Products	19.6	50.3	20.4	X	17.6	X	X	50.3	X	X
321	Wood Products	7.5	23.5	8.5	38.2	18.9	28.1	35.7	39.6	X	27.0
321113		12.1	23.0 19.3	14.9	32.9 29.7	33.2	6.4	6.4 58.7	42.4	X	6.4 24.5
3212 321219	Veneer, Plywood, and Engineered Woods Reconstituted Wood Products	10.3 13.8	39.0	11.6 14.8	83.8	7.6 13.5	30.3 43.9	56.7 X	26.6 58.5	X X	13.5
3219	Other Wood Products	11.0	40.4	12.2	55.5	35.6	67.9	x	66.1	X	63.4
322	Paper	5.8	17.4	7.4	51.5	23.1	20.5	2.9	45.2	0.0	0.0
	Pulp Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
322121		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322122		0.0	0.0	0.0	X	0.0	0.0	0.0	X	X	X
322130 323	Paperboard Mills Printing and Related Support	0.0 5.2	0.0 26.2	0.0 6.8	0.0 27.1	0.0 47.0	0.0 X	0.0 98.8	0.0 73.4	0.0 X	0.0 X
324	Petroleum and Coal Products	4.4	7.4	5.3	7.5	9.4	15.1	1.8	6.2	93.9	12.9
	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
324121		5.8	9.6	7.5	8.3	10.2	16.6	5.3	8.4	93.9	19.6
	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	X	Х	0.0	X	X	X
325	Chemicals	3.7	15.3	4.7	31.3	15.6	41.9	41.0	34.5	3.5	55.1
325110 325120	Petrochemicals Industrial Gases	0.0 22.5	0.0 73.1	0.0 24.7	0.0 73.1	0.0 X	0.0 X	X X	0.0 X	X X	0.0 X
325120		0.0	0.0	0.0	0.0	0.0	X	X	X	X	0.0
	Carbon Black	0.0	0.0	0.0	X	X	0.0	X	X	X	X
325188	Other Basic Inorganic Chemicals	6.5	34.4	8.5	11.6	43.7	62.9	11.6	26.4	X	30.1
	Cyclic Crudes and Intermediates	0.0	0.0	0.0	Х	0.0	X	X	X	X	X
	Ethyl Alcohol	0.9	16.0	1.4	X	5.4	X	13.5	38.4	X	37.3
325199 325211	•	5.2 4.9	32.4 14.9	5.9 5.8	23.1 23.7	20.0 19.4	68.3 19.4	21.2 X	12.9 23.4	X X	43.6 7.9
325211		13.4	20.2	13.6	24.2	24.9	12.3	12.3	23.6	X	47.9
325222	- 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
325311		0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
325312		0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X
3254	Pharmaceuticals and Medicines	6.1	12.2	6.7	26.6	12.0	7.8	79.9	7.8	11.6	8.1
325412 325992	Pharmaceutical Preparation Photographic Film, Paper, Plate, and Chemicals	8.3 6.6	12.5 23.6	8.8 12.0	26.3 55.4	11.3 14.1	10.2 14.1	10.2 X	10.2 36.2	X X	10.2 X
326	Plastics and Rubber Products	4.6	22.7	6.2	29.8	43.7	74.5	80.5	39.7	98.8	93.3
327	Nonmetallic Mineral Products	6.3	21.8	7.5	30.9	43.3	19.5	8.0	33.9	13.2	9.3
327121	Brick and Structural Clay Tile	2.9	11.5	3.8	Х	47.0	30.0	10.0	17.0	X	19.1
327211		0.0	0.0	0.0	Х	0.0	X	X	0.0	X	0.0
	Other Pressed and Blown Glass and Glassware	6.5	20.0	7.3	X	13.2	13.2	X	23.9	X	13.2
327213		0.0 6.3	0.0 11.3	0.0 7.3	0.0 13.8	0.0 8.9	0.0 X	X 8.9	0.0 20.4	X X	0.0 8.9
327215 327310		11.2	33.0	16.3	73.7	13.2	13.2	13.2	13.2	13.2	13.2
327410		0.0	0.0	0.0	0.0	0.0	X	0.0	X	X	X
327420		7.6	13.9	8.8	13.9	13.9	X	X	13.9	X	X
327993		13.1	14.5	13.2	14.5	14.5	X	X	14.5	X	X
331	Primary Metals	1.8	9.8	2.2	11.5	14.7	45.9	10.2	15.2	6.4	49.5
	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
331112 3312	Electrometallurgical Ferroalloy Products Steel Products from Purchased Steel	0.0 10.0	0.0 29.2	0.0 10.8	0.0 12.2	X 64.5	X 12.2	X X	X 37.4	X X	X X
3313	Alumina and Aluminum	3.2	9.2	3.2	20.2	11.3	12.2 X	X	7.6	X	X
3010	, adminid direction in the control of the control o	0.2	5.2	0.2	20.2	. 1.0	^	^	7.0	Α.	^

RSE Table 10.3 Relative Standard Errors for Table 10.3;

Unit: Percents.

Natural Gas(b)

Alternative Energy Sources(c)

NAICS		Total Establishments		Not	Electricity	Distillate	Residual			Coal Coke and	
	Selected Subsectors and Industry	Consuming Natural Gas(d	Switchable	Switchable	Receipts(e)	Fuel Oil	Fuel Oil	Coal	LPG	Breeze	Other(f)
331314		0.0	0.0	0.0	0.0	0.0	X	Х	0.0	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	0.0	X	Х	0.0	X	X
331316	Aluminum Extruded Products	1.3	16.5	3.5	41.5	33.1	X	Х	6.7	X	X
3314	Nonferrous Metals, except Aluminum	6.3	31.4	8.3	27.1	7.8	80.5	11.1	43.5	11.1	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	u 0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
3315	Foundries	1.6	11.8	2.1	17.6	31.3	13.3	18.8	12.4	29.6	66.6
331511	Iron Foundries	1.4	16.8	3.7	30.0	50.9	6.5	6.5	20.7	X	X
331521	Aluminum Die-Casting Foundries	11.8	26.2	12.8	43.0	11.7	X	X	12.5	X	48.0
331524	Aluminum Foundries, except Die-Casting	2.7	22.6	3.3	27.5	12.3	X	X	12.3	X	12.3
332	Fabricated Metal Products	4.2	24.8	5.3	33.8	55.5	99.4	X	30.6	X	93.2
333	Machinery	4.1	25.9	5.1	30.0	63.0	69.1	X	47.0	X	56.8
334	Computer and Electronic Products	8.1	31.5	9.8	39.3	44.4	6.4	X	49.9	X	X
334413	Semiconductors and Related Devices	14.0	15.6	14.0	X	15.7	14.9	X	X	X	X
335	Electrical Equip., Appliances, and Components	5.5	37.6	6.4	53.2	45.2	46.5	X	71.8	X	66.1
336	Transportation Equipment	5.8	25.2	7.1	42.2	51.7	12.3	63.4	35.4	X	74.1
336111	Automobiles	0.0	0.0	0.0	X	0.0	X	0.0	X	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
3364	Aerospace Product and Parts	5.4	23.4	7.2	46.3	44.6	12.4	X	40.0	X	86.3
336411	Aircraft	3.4	37.0	5.6	16.8	67.8	16.8	X	51.5	X	16.8
337	Furniture and Related Products	7.1	29.3	9.3	37.9	74.0	98.7	X	52.5	X	Х
339	Miscellaneous	4.9	24.7	6.4	29.1	74.8	59.1	98.8	41.1	98.8	64.2
	Total	1.4	6.1	1.8	9.2	9.0	16.4	33.5	10.5	55.0	23.2

- (a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
- (b) These counts include only those establishments that reported this activity in 2010.
- (c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for natural gas during 2010. The quantities are expressed in billions of cubic feet, and therefore represent the quantity of natural gas that could have been displaced by the given alternative type of energy.
- (d) Total Consumed represents those quantities (Total Inputs) of natural gas that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
- (e) 'Electricity Receipts' represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. 'Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
- (f) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of natural gas.

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.
- X=Not defined because RSE corresponds to a value of zero.
- Notes: Totals may not equal sum of components because of independent rounding.
- Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing

Energy Consumption Survey.'