

Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2010;

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

NAICS Code(a)	Selected Subsectors and Industry	LPG(b)			Alternative Energy Sources(c)						
		Total Establishment Consuming LPG(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(f)
Total United States											
311	Food	4,039	600	2,860	356	221	Q	W	0	0	16
3112	Grain and Oilseed Milling	268	40	222	13	Q	8	W	0	0	W
311221	Wet Corn Milling	36	W	30	W	W	0	0	0	0	0
31131	Sugar Manufacturing	12	0	12	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	503	133	349	109	Q	6	0	0	0	W
3115	Dairy Products	161	42	117	28	17	8	0	0	0	9
3116	Animal Slaughtering and Processing	583	98	422	75	Q	Q	Q	0	0	0
312	Beverage and Tobacco Products	1,162	81	882	Q	18	W	W	0	0	W
3121	Beverages	1,125	76	856	Q	14	W	W	0	0	W
3122	Tobacco	38	6	25	4	3	W	W	0	0	0
313	Textile Mills	557	Q	367	Q	10	W	0	0	0	0
314	Textile Product Mills	779	Q	515	0	Q	0	0	0	0	0
315	Apparel	Q	Q	Q	0	0	W	0	0	0	0
316	Leather and Allied Products	143	Q	113	0	W	W	0	0	0	0
321	Wood Products	4,203	191	3,415	99	48	71	W	0	0	Q
321113	Sawmills	586	45	460	W	W	26	W	0	0	W
3212	Veneer, Plywood, and Engineered Woods	718	46	540	33	26	27	0	0	0	W
321219	Reconstituted Wood Products	137	8	123	4	4	5	0	0	0	0
3219	Other Wood Products	2,777	98	2,325	39	7	W	0	0	0	W
322	Paper	2,421	203	1,968	Q	Q	6	0	0	0	4
322110	Pulp Mills	25	3	22	0	W	W	0	0	0	0
322121	Paper Mills, except Newsprint	150	9	139	5	W	W	0	0	0	4
322122	Newsprint Mills	20	0	20	0	0	0	0	0	0	0
322130	Paperboard Mills	132	3	121	W	W	W	0	0	0	0
323	Printing and Related Support	2,469	Q	2,123	Q	W	0	0	0	0	0
324	Petroleum and Coal Products	677	115	528	Q	68	13	4	0	0	W
324110	Petroleum Refineries	107	45	65	4	44	W	0	0	0	W
324121	Asphalt Paving Mixture and Block	233	Q	175	Q	Q	7	W	0	0	0
324199	Other Petroleum and Coal Products	20	W	17	0	0	W	0	0	0	0
325	Chemicals	3,660	316	2,803	182	61	54	0	0	0	Q
325110	Petrochemicals	10	W	6	W	W	0	0	0	0	0
325120	Industrial Gases	Q	0	Q	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	18	6	12	4	W	W	0	0	0	W
325182	Carbon Black	8	W	W	0	0	W	0	0	0	0
325188	Other Basic Inorganic Chemicals	263	69	194	11	Q	Q	0	0	0	Q
325192	Cyclic Crudes and Intermediates	13	0	10	0	0	0	0	0	0	0
325193	Ethyl Alcohol	57	10	39	W	W	W	0	0	0	0
325199	Other Basic Organic Chemicals	254	Q	184	Q	W	4	0	0	0	W
325211	Plastics Materials and Resins	426	16	358	7	4	W	0	0	0	W
325212	Synthetic Rubber	52	5	38	4	0	W	0	0	0	0
325222	Noncellulosic Organic Fibers	42	9	27	8	W	0	0	0	0	0
325311	Nitrogenous Fertilizers	30	W	26	W	W	0	0	0	0	0
325312	Phosphatic Fertilizers	24	5	16	5	0	0	0	0	0	W
3254	Pharmaceuticals and Medicines	227	10	170	7	W	W	0	0	0	W
325412	Pharmaceutical Preparation	117	7	63	7	W	W	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	37	4	31	W	W	0	0	0	0	0
326	Plastics and Rubber Products	4,236	361	3,239	337	Q	W	0	0	0	0
327	Nonmetallic Mineral Products	3,826	488	3,137	220	297	Q	W	0	0	W
327121	Brick and Structural Clay Tile	46	7	34	0	5	W	W	0	0	0
327211	Flat Glass	34	7	29	4	W	W	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	76	10	65	7	W	W	0	0	0	0
327213	Glass Containers	46	5	42	W	5	W	0	0	0	0
327215	Glass Products from Purchased Glass	229	31	166	19	W	7	0	0	0	0
327310	Cements	84	5	56	W	4	W	0	0	0	0
327410	Lime	36	W	36	0	0	0	0	0	0	W
327420	Gypsum	111	Q	108	W	W	W	0	0	0	0
327993	Mineral Wool	93	9	86	8	W	0	0	0	0	0
331	Primary Metals	1,776	198	1,439	94	62	55	Q	W	0	17
331111	Iron and Steel Mills	186	22	146	7	7	10	0	W	0	W

Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2010;

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

NAICS Code(a)	Selected Subsectors and Industry	LPG(b)			Alternative Energy Sources(c)						
		Total Establishment Consuming LPG(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(f)
33112	Electrometallurgical Ferroalloy Products	9	6	7	0	W	4	0	0	0	W
3312	Steel Products from Purchased Steel	235	8	209	W	W	W	0	0	0	W
3313	Alumina and Aluminum	203	23	172	11	9	10	W	0	0	W
331314	Secondary Smelting and Alloying of Aluminum	51	8	35	W	W	4	W	0	0	W
331315	Aluminum Sheet, Plate and Foils	41	W	38	0	0	W	0	0	0	0
331316	Aluminum Extruded Products	95	10	86	W	W	W	0	0	0	W
3314	Nonferrous Metals, except Aluminum	341	34	265	W	W	W	W	0	0	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alur	48	3	41	W	0	W	0	0	0	0
3315	Foundries	802	105	640	63	38	23	W	0	0	8
331511	Iron Foundries	227	33	184	12	15	13	0	0	0	W
331521	Aluminum Die-Casting Foundries	112	21	71	Q	W	0	0	0	0	W
331524	Aluminum Foundries, except Die-Casting	150	12	130	16	W	W	0	0	0	W
332	Fabricated Metal Products	16,141	1,945	11,473	914	Q	508	0	0	0	Q
333	Machinery	6,155	844	4,593	432	437	W	W	0	0	W
334	Computer and Electronic Products	1,012	Q	824	W	0	W	0	0	0	W
334413	Semiconductors and Related Devices	66	Q	57	W	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	1,140	47	1,042	W	W	W	0	0	0	W
336	Transportation Equipment	3,503	386	2,670	Q	Q	Q	0	0	0	Q
336111	Automobiles	41	8	25	W	0	0	0	0	0	W
336112	Light Trucks and Utility Vehicles	9	W	7	W	0	0	0	0	0	0
3364	Aerospace Product and Parts	328	30	259	11	12	8	0	0	0	W
336411	Aircraft	98	13	78	W	8	W	0	0	0	0
337	Furniture and Related Products	3,502	309	3,045	Q	Q	Q	0	0	0	W
339	Miscellaneous	3,536	342	2,552	Q	Q	W	0	0	0	0
	Total	65,281	6,820	49,726	3,653	2,574	1,448	209	W	0	944

(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 LPG during 2010. The quantities are expressed in thousands of barrels, and therefore represent the quantity of LPG that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of LPG 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 LPG.

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 10.13 Relative Standard Errors for Table 10.13;

Unit: Percents.

NAICS Code(a)	Selected Subsectors and Industry	Total Establishment Consuming LPG(d)	LPG(b)		Electricity Receipts(e)	Alternative Energy Sources(c)					Other(f)
			Switchable	Not Switchable		Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	
Total United States											
311	Food	8.8	25.1	11.0	29.1	39.5	51.9	78.0	X	X	32.9
3112	Grain and Oilseed Milling	12.1	44.6	14.7	41.8	62.7	45.0	8.6	X	X	8.6
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Foods	10.7	30.6	14.8	33.5	56.9	10.7	X	X	X	56.0
3115	Dairy Products	12.0	18.2	14.0	24.8	16.7	24.2	X	X	X	48.6
3116	Animal Slaughtering and Processing	11.9	33.6	15.0	43.8	50.5	64.0	80.4	X	X	X
312	Beverage and Tobacco Products	8.3	41.7	11.0	53.3	36.1	23.1	3.6	X	X	36.4
3121	Beverages	8.6	44.9	11.3	56.5	44.9	39.8	7.1	X	X	36.4
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X
313	Textile Mills	13.8	54.4	18.1	69.2	28.1	62.3	X	X	X	X
314	Textile Product Mills	32.0	93.5	37.7	X	93.5	X	X	X	X	X
315	Apparel	60.4	77.7	52.2	X	X	77.7	X	X	X	X
316	Leather and Allied Products	28.5	69.8	35.4	X	85.1	17.6	X	X	X	X
321	Wood Products	5.7	24.5	7.0	22.1	21.3	26.1	6.4	X	X	86.7
321113	Sawmills	9.5	25.2	11.4	42.3	14.6	41.4	6.4	X	X	45.7
3212	Veneer, Plywood, and Engineered Woods	9.4	23.3	11.9	31.1	36.8	35.4	X	X	X	74.9
321219	Reconstituted Wood Products	13.8	16.5	15.2	22.2	13.5	13.5	X	X	X	X
3219	Other Wood Products	7.9	45.2	9.6	41.0	49.6	66.2	X	X	X	98.0
322	Paper	7.9	40.8	10.0	50.6	61.8	0.0	X	X	X	0.0
322110	Pulp Mills	0.0	0.0	0.0	X	0.0	0.0	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	0.0
322122	Newsprint Mills	0.0	X	0.0	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
323	Printing and Related Support	15.5	69.9	16.9	69.9	98.8	X	X	X	X	X
324	Petroleum and Coal Products	6.2	27.5	7.5	59.4	15.1	26.3	15.9	X	X	58.1
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	15.0	64.7	13.4	74.6	53.4	46.7	45.6	X	X	X
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	X	X	0.0	X	X	X	X
325	Chemicals	7.3	28.7	9.2	41.7	34.5	41.7	X	X	X	58.4
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325120	Industrial Gases	53.2	X	53.2	X	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	0.0
325182	Carbon Black	0.0	0.0	0.0	X	X	0.0	X	X	X	X
325188	Other Basic Inorganic Chemicals	13.0	41.5	18.2	28.2	62.4	68.9	X	X	X	73.0
325192	Cyclic Crudes and Intermediates	0.0	X	0.0	X	X	X	X	X	X	X
325193	Ethyl Alcohol	8.4	34.2	7.9	4.3	38.9	4.3	X	X	X	X
325199	Other Basic Organic Chemicals	13.0	69.6	18.3	77.6	66.9	33.6	X	X	X	65.4
325211	Plastics Materials and Resins	9.5	23.1	11.9	27.4	26.2	46.7	X	X	X	82.0
325212	Synthetic Rubber	14.9	22.3	15.2	26.2	X	21.1	X	X	X	X
325222	Noncellulosic Organic Fibers	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	X	X	X	X	X	0.0
3254	Pharmaceuticals and Medicines	19.7	22.7	20.8	15.7	10.2	41.9	X	X	X	72.9
325412	Pharmaceutical Preparation	25.9	15.7	21.3	15.7	10.2	41.9	X	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	39.9	14.1	49.3	14.1	14.1	X	X	X	X	X
326	Plastics and Rubber Products	8.0	37.2	10.1	39.4	66.1	98.8	X	X	X	X
327	Nonmetallic Mineral Products	9.7	31.4	11.1	47.0	44.0	51.1	5.7	X	X	0.0
327121	Brick and Structural Clay Tile	4.8	4.8	4.8	X	4.8	4.8	4.8	X	X	X
327211	Flat Glass	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	17.3	33.7	19.3	43.1	13.2	13.2	X	X	X	X
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
327215	Glass Products from Purchased Glass	12.1	13.6	13.4	15.7	8.9	29.1	X	X	X	X
327310	Cements	20.5	13.2	16.3	13.2	13.2	13.2	13.2	X	X	X
327410	Lime	0.0	0.0	0.0	X	X	X	X	X	X	0.0
327420	Gypsum	5.1	77.8	5.4	13.9	89.4	13.9	X	X	X	X
327993	Mineral Wool	21.4	28.0	22.3	31.1	14.5	X	X	X	X	X
331	Primary Metals	4.0	11.8	4.5	17.9	13.5	10.6	76.0	0.0	X	10.1
331111	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
331112	Electrometallurgical Ferroalloy Products	0.0	0.0	0.0	X	0.0	0.0	X	X	X	0.0
3312	Steel Products from Purchased Steel	14.2	25.5	15.3	12.2	69.8	12.2	X	X	X	12.2

RSE Table 10.13 Relative Standard Errors for Table 10.13;**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Total Establishment Consuming LPG(d)	LPG(b)			Alternative Energy Sources(c)					Other(f)
			Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	
3313	Alumina and Aluminum	3.3	5.2	3.4	5.4	4.0	3.3	0.0	X	X	2.7
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	X	X	0.0	X	X	X	X
331316	Aluminum Extruded Products	4.1	5.6	4.7	5.6	5.6	X	X	X	X	5.6
3314	Nonferrous Metals, except Aluminum	11.3	47.1	12.9	61.5	11.1	50.8	87.1	X	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alu	0.0	0.0	0.0	0.0	X	0.0	X	X	X	X
3315	Foundries	6.0	16.0	7.0	24.2	21.3	21.1	10.0	X	X	21.3
331511	Iron Foundries	6.9	16.5	8.2	26.8	22.7	27.4	X	X	X	63.3
331521	Aluminum Die-Casting Foundries	8.3	43.3	14.1	50.4	11.7	X	X	X	X	36.9
331524	Aluminum Foundries, except Die-Casting	14.0	19.1	15.3	35.7	12.3	12.3	X	X	X	12.3
332	Fabricated Metal Products	6.6	25.2	8.8	36.5	57.1	46.5	X	X	X	57.1
333	Machinery	8.0	27.1	10.0	37.8	37.5	79.1	98.9	X	X	69.7
334	Computer and Electronic Products	21.7	87.1	24.6	51.6	X	98.0	X	X	X	98.0
334413	Semiconductors and Related Devices	40.0	51.6	45.8	51.6	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	16.4	45.9	17.4	85.0	56.3	77.6	X	X	X	79.2
336	Transportation Equipment	8.0	35.6	10.8	50.9	68.4	75.2	X	X	X	95.9
336111	Automobiles	0.0	0.0	0.0	0.0	X	X	X	X	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3364	Aerospace Product and Parts	13.7	19.0	14.1	27.2	21.9	44.0	X	X	X	39.1
336411	Aircraft	20.1	16.8	21.9	16.8	16.8	16.8	X	X	X	X
337	Furniture and Related Products	10.2	42.8	11.4	56.5	62.1	85.1	83.4	X	X	98.7
339	Miscellaneous	12.2	44.1	14.9	50.1	52.5	98.8	X	X	X	X
	Total	2.5	10.0	3.1	13.3	16.2	21.5	47.4	0.0	X	31.6

(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 LPG during 2010. The quantities are expressed in thousands of barrels, and therefore represent the quantity of LPG that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of LPG 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 LPG.

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.'