

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2002;**  
**Level: National Data and Regional Totals;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)								RSE Row Factors
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	
<b>Total United States</b>												
	<b>RSE Column Factors:</b>	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
311	Food	1,271	Q	745	Q	Q	Q	Q	Q	Q	Q	25.6
311221	Wet Corn Milling	1	*	1	*	*	0	0	0	0	*	1.1
31131	Sugar	11	1	10	1	0	0	0	1	0	*	0.9
311421	Fruit and Vegetable Canning	Q	6	Q	5	1	2	*	0	0	0	1.8
312	Beverage and Tobacco Products	297	35	200	10	27	Q	0	0	0	*	23.6
3121	Beverages	252	34	182	10	27	Q	0	0	0	*	20.1
3122	Tobacco	45	*	18	*	*	*	0	0	0	*	1.1
313	Textile Mills	501	32	461	Q	15	Q	Q	0	0	Q	32.3
314	Textile Product Mills	161	26	46	Q	25	0	0	0	0	0	49.5
315	Apparel	23	1	7	*	*	*	0	0	0	0	43.1
316	Leather and Allied Products	11	1	9	0	1	Q	0	0	0	*	16.2
321	Wood Products	1,200	124	848	46	47	56	16	Q	Q	30	24.7
321113	Sawmills	162	13	71	7	6	9	1	Q	Q	Q	30.8
3212	Veneer, Plywood, and Engineered Woods	681	70	579	15	35	24	Q	Q	Q	25	29.4
3219	Other Wood Products	341	40	184	23	6	23	Q	0	0	*	22.3
322	Paper	1,667	140	873	43	87	7	3	0	0	Q	34.2
322110	Pulp Mills	26	*	22	*	0	*	0	0	0	*	1.1
322121	Paper Mills, except Newsprint	344	11	237	1	9	1	0	0	0	1	5.4
322122	Newsprint Mills	45	1	40	0	1	1	0	0	0	0	1.1
322130	Paperboard Mills	128	3	98	1	1	1	2	0	0	*	2.1
323	Printing and Related Support	246	25	159	22	Q	2	0	0	0	1	18.2
324	Petroleum and Coal Products	6,106	4,274	1,312	10	4,210	Q	Q	0	0	W	16
324110	Petroleum Refineries	5,036	3,553	983	W	3,550	W	W	0	0	W	3.7
324199	Other Petroleum and Coal Products	1	*	1	0	*	0	0	0	0	0	1.1
325	Chemicals	8,908	120	490	34	76	15	0	0	0	Q	7.6
325110	Petrochemicals	W	0	W	0	0	0	0	0	0	0	1
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0	13.8
325181	Alkalies and Chlorine	3	0	2	0	0	0	0	0	0	0	1
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0	1
325188	Other Basic Inorganic Chemicals	46	6	36	5	4	3	0	0	0	1	7.1
325192	Cyclic Crudes and Intermediates	W	*	W	0	*	0	0	0	0	0	1.1
325193	Ethyl Alcohol	11	8	2	0	8	0	0	0	0	0	1.1
325199	Other Basic Organic Chemicals	W	70	W	Q	46	1	0	0	0	Q	4.7
325211	Plastics Materials and Resins	125	13	96	8	Q	5	0	0	0	1	21
325212	Synthetic Rubber	10	1	5	1	*	0	0	0	0	*	6.9

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NAICS Code(a)	Subsector and Industry	LPG			Alternative Energy Sources(b)							RSE Row Factors
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	
325222	Noncellulosic Organic Fibers	23	3	20	*	2	0	0	0	0	2	3.4
325311	Nitrogenous Fertilizers	3	*	2	*	*	*	0	0	0	*	1.1
325312	Phosphatic Fertilizers	1	*	1	0	0	0	0	0	0	*	1.2
3254	Pharmaceuticals and Medicines	Q	2	Q	1	2	0	0	0	0	*	6
325412	Pharmaceutical Preparation	11	1	7	1	*	0	0	0	0	*	6.5
325992	Photographic Film, Paper, Plate, and Chemicals	15	Q	1	Q	*	0	0	0	0	0	12.7
326	Plastics and Rubber Products	816	64	517	47	17	19	Q	0	0	11	27.3
327	Nonmetallic Mineral Products	829	322	361	14	296	Q	Q	Q	0	8	24.7
3272	Glass and Glass Products	142	10	119	1	5	3	0	0	0	W	21.2
327211	Flat Glass	9	1	4	*	1	0	0	0	0	*	1.1
327213	Glass Containers	52	1	48	0	0	1	0	0	0	0	1
327310	Cements	17	6	11	2	1	1	1	0	0	4	4.4
327410	Lime	8	3	4	1	0	3	0	0	0	W	1.1
327993	Mineral Wool	47	9	30	3	7	*	0	0	0	0	5.2
331	Primary Metals	809	94	577	15	78	16	4	*	0	Q	11.1
331111	Iron and Steel Mills	36	1	22	0	1	*	0	0	0	0	3.1
331112	Electrometallurgical Ferroalloy Products	3	0	2	0	0	0	0	0	0	0	1
3312	Steel Products from Purchased Steel	80	11	56	Q	8	Q	Q	0	0	1	21.7
3313	Alumina and Aluminum	145	37	86	Q	35	2	0	0	0	Q	9.6
331312	Primary Aluminum	37	27	9	0	27	0	0	0	0	0	1.1
3314	Nonferrous Metals, except Aluminum	295	14	248	Q	Q	2	Q	0	0	Q	5.8
3315	Foundries	249	30	163	8	24	9	*	*	0	1	5.9
331511	Iron Foundries	105	13	69	*	11	4	0	0	0	0	4.2
331521	Aluminum Die-Casting Foundries	46	6	26	4	5	*	*	0	0	*	3.5
331524	Aluminum Foundries, except Die-Casting	36	4	20	1	2	2	0	*	0	*	5.2
332	Fabricated Metal Products	965	119	468	77	82	25	Q	0	0	W	27.6
333	Machinery	664	60	462	34	34	14	Q	Q	0	W	31.4
334	Computer and Electronic Products	100	10	84	5	5	*	*	0	0	*	24.5
334413	Semiconductors and Related Devices	9	1	8	*	1	0	0	0	0	0	4.6
335	Electrical Equip., Appliances, and Components	319	51	189	16	43	8	Q	0	0	*	24.1
336	Transportation Equipment	1,090	121	533	64	74	62	Q	0	0	W	28.1
336112	Light Trucks and Utility Vehicles	33	W	W	0	W	0	0	0	0	0	1.1
337	Furniture and Related Products	383	56	213	23	Q	Q	Q	0	0	W	29.7
339	Miscellaneous	183	22	107	19	Q	Q	0	0	0	*	29.3
	Total	26,547	6,063	8,661	811	5,494	799	Q	Q	Q	155	12.3
<b>Northeast Census Region</b>												
<b>RSE Column Factors:</b>		1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	

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		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	
	Total	2,518	485	1,477	121	407	238	Q	Q	Q	3	15.5
<b>Midwest Census Region</b>												
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
	Total	5,343	1,483	2,830	203	1,329	115	55	Q	Q	54	21.2
<b>South Census Region</b>												
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
	Total	14,669	2,165	2,927	170	1,946	Q	Q	Q	0	52	7.1
<b>West Census Region</b>												
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
	Total	4,017	1,930	1,428	Q	1,812	92	Q	0	0	46	12.1
	<b>Economic Characteristic (f)</b>											
	RSE Column Factors:	0.6	1	0.7	2.4	1.1	2	2.9	0.1	0	1.7	
	<b>Value of Shipments and Receipts (million dollars)</b>											
	Under 20	5,132	1,301	2,559	209	1,091	W	W	Q	Q	41	19.3
	20-49	2,993	595	1,770	Q	Q	59	Q	0	0	48	20.5
	50-99	1,997	379	1,243	143	277	93	Q	Q	Q	37	15
	100-249	2,080	214	1,118	58	144	16	Q	1	0	W	12.6
	250-499	970	147	609	27	122	9	0	0	0	W	13.1
	500 and Over	13,376	3,427	1,361	13	3,419	W	W	Q	0	W	2.9
	Total	26,547	6,063	8,661	811	5,494	799	Q	Q	Q	155	9.1
	<b>Employment Size</b>											
	Under 50	3,755	1,032	1,694	114	906	Q	Q	Q	Q	16	22.8
	50-99	2,216	692	1,022	Q	602	95	Q	Q	Q	Q	31.1

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	100-249	3,607	579	2,208	173	W	57	Q	Q	Q	45	14.6
	250-499	3,569	720	1,917	112	619	75	35	1	0	54	9.6
	500-999	10,858	2,072	692	33	2,042	166	4	0	0	6	3.7
	1000 and Over	2,542	969	1,128	38	W	14	*	Q	0	4	5.4
	Total	26,547	6,063	8,661	811	5,494	799	Q	Q	Q	155	9.1

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

(b) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for LPG during 2002. 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.

(c) '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.

(d) '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.

(e) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of LPG.

(f) Value of Shipments and Receipts and Employment Size categories were supplied by the Bureau of the Census.

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

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		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	

and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'