## Table 10.23 Reasons that Made LPG Unswitchable, 2006;

Level: National Data; Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

## Reasons that Made LPG Unswitchable

Total Amount of Total Amount of Equipment is No Switching Unavailable Long-Term Unavailable Combinations of NAICS LPG Consumed Unswitchable Capable of UsincAdversely Affects Alternative Environmenta Contract Storage for Another Columns F, G, LPG Fuel Use Another Fuel the Products Fuel SupplyRestrictions(b in Place(c)Alternative Fuels(d Reason H, I, J, and K Don't Know Code(a) Subsector and Industry **Total United States** Q Grain and Oilseed Milling Ω Ω Q O Ω Λ Ω Λ Wet Corn Milling Sugar Manufacturing Fruit and Vegetable Preserving and Specialty Foo Dairy Products Ω Q Animal Slaughtering and Processing Q Ω Beverage and Tobacco Products Q Q Ω Beverages Ω Ω Λ Ω Ω Tobacco Textile Mills Ω Q Textile Product Mills Ω Ω Apparel Ω Ω Ω n Ω Q Leather and Allied Products Ω n Ω Ω Λ Ω Ω Wood Products 1,368 Q Q Sawmills Q Veneer, Plywood, and Engineered Woods Q Q Other Wood Products Ω O Ω Ω Ω Paper 1,339 1,007 Q Q Ω Pulp Mills Paper Mills, except Newsprint Ω Ω Newsprint Mills Paperboard Mills Q Printing and Related Support Q Q Petroleum and Coal Products 7,424 4,267 1,314 1,012 1,227 Petroleum Refineries 7,307 4,179 Ω 1,012 Other Petroleum and Coal Products 1,717 Chemicals 1,907 1,220 Ω Petrochemicals Industrial Gases Ω Q Q Alkalies and Chlorine Ω Ω Λ Other Basic Inorganic Chemicals Q O Cyclic Crudes and Intermediates Ethyl Alcohol Other Basic Organic Chemicals Plastics Materials and Resins 1,520 1,496 1,046 Ω Synthetic Rubber Ω Ω Λ Λ Noncellulosic Organic Fibers Nitrogenous Fertilizers Phosphatic Fertilizers Pharmaceuticals and Medicines Ω Ω n n Pharmaceutical Preparation Ω Q n Ω Ω Ω Ω Λ Photographic Film, Paper, Plate, and Chemicals Plastics and Rubber Products 1,316 O O Q Q Q Nonmetallic Mineral Products 1.327 1.095 Q Q Flat Glass O O Other Pressed and Blown Glass and Glassware O Glass Containers Glass Products from Purchased Glass Cements Lime Gypsum Mineral Wool Primary Metals 

Table 10.23 Reasons that Made LPG Unswitchable, 2006:

Level: National Data; Row: NAICS Codes:

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

Reasons that Made LPG Unswitchable

NAICS		Total Amount of LPG Consumed	Total Amount of Unswitchable	Equipment is No Capable of Using		Unavailable Alternative E		_ong-Term Contract	Unavailable Storage for		Combinations of Columns F, G,	
Code(a)	Subsector and Industry	as a Fuel	LPG Fuel Use	Another Fuel	the Products	Fuel SupplyR	lestrictions(b)	in Place(c)A	Iternative Fuels(d	Reason	H, I, J, and K	Don't Know
331111	Iron and Steel Mills	43	28	23	*	*	1	0	0	0	1	3
331112	Electrometallurgical Ferroalloy Products	1	1	1	0	0	0	0	0	0	0	*
3312	Steel Products from Purchased Steel	69	50	38	2	*	4	Q	*	0	0	5
3313	Alumina and Aluminum	266	66	54	Q	*	3	*	*	0	*	8
331314	Secondary Smelting and Alloying of Aluminum	13	10	6	0	0	0	0	0	0	0	4
331315	Aluminum Sheet, Plate and Foils	27	26	21	0	0	2	*	*	0	*	3
331316	Aluminum Extruded Products	214	23	20	Q	0	1	0	0	0	0	1
3314	Nonferrous Metals, except Aluminum	335	284	100	0	0	Q	0	1	0	2	179
3315	Foundries	265	167	129	1	1	2	1	2	0	1	31
331511	Iron Foundries	95	69	65	*	0	2	0	*	0	0	2
331521	Aluminum Die-Casting Foundries	47	16	13	1	1		0	0	0	1	*
331524	Aluminum Foundries, except Die-Casting	49	29	13	0	0	*	1	*	0	0	15
332	Fabricated Metal Products	1,178	729	360	Q	*	Q	Q	Q	0	0	Q
333	Machinery	725	581	535	Q	0	0	0	0	0	Q	Q
334	Computer and Electronic Products	Q	9	7	0	0	0	0	*	0	0	Q
334413	Semiconductors and Related Devices	Q	Q	Q	0	0	0	0	*	0	0	*
335	Electrical Equip., Appliances, and Components	229	133	96	Q	Q	Q	0	0	0	0	Q
336	Transportation Equipment	1,008	626	536	12	Q	6	Q	*	0	12	43
336111	Automobiles	63	14	13	*	0	0	0	*	0	1	*
336112	Light Trucks and Utility Vehicles	10	5	4	0	0	0	0	*	0	0	1
3364	Aerospace Product and Parts	116	85	58	12	0	4	0	0	0	5	7
336411	Aircraft	12	11	2	0	0	3	0	0	0	1	6
337	Furniture and Related Products	140	91	68	0	0	0	Q	0	0	0	16
339	Miscellaneous	152	51	28	*	Q	0	Q	0	0	0	8
	Total	20,669	13,530	7,809	1,040	397	328	238	870	0	Q	2,517

<sup>(</sup>a) The Bureau of the Census classifies establishments using the North American

Industry Classification System (NAICS).
(b) The environmental resrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

<sup>(</sup>c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

<sup>(</sup>d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NF=No applicable RSE row/column factor.

<sup>\*</sup> 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'