

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
<b>Total United States</b>											
311	Food	563	139	416	12	72	26	4	35	*	13
3112	Grain and Oilseed Milling	118	31	86	4	11	8	2	8	*	3
311221	Wet Corn Milling	51	11	40	4	1	2	2	3	0	1
31131	Sugar Manufacturing	15	5	10	*	3	1	1	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	97	18	78	4	6	5	0	5	0	0
3115	Dairy Products	65	17	46	1	8	3	*	5	0	*
3116	Animal Slaughtering and Processing	122	39	82	1	29	8	*	5	0	10
312	Beverage and Tobacco Products	37	15	23	1	7	5	*	3	*	1
3121	Beverages	33	12	22	1	5	4	*	Q	*	1
3122	Tobacco	4	3	1	1	2	1	*	*	0	*
313	Textile Mills	31	9	21	1	4	3	Q	3	0	*
314	Textile Product Mills	9	4	5	Q	*	1	*	2	0	0
315	Apparel	2	*	1	*	*	*	0	0	0	0
316	Leather and Allied Products	1	*	1	0	*	0	0	*	0	0
321	Wood Products	33	3	30	*	1	*	*	2	0	1
321113	Sawmills	5	*	5	*	*	*	*	*	0	*
3212	Veneer, Plywood, and Engineered Woods	18	2	17	*	1	*	*	1	0	1
321219	Reconstituted Wood Products	14	1	13	*	*	*	0	*	0	*
3219	Other Wood Products	7	1	6	*	*	*	0	1	0	*
322	Paper	387	112	273	9	35	62	6	6	1	14
322110	Pulp Mills	19	13	6	1	2	9	0	*	0	*
322121	Paper Mills, except Newsprint	167	32	136	3	6	18	1	3	1	11
322122	Newsprint Mills	3	2	2	0	2	*	*	0	0	0
322130	Paperboard Mills	138	52	87	4	17	30	4	1	*	3
323	Printing and Related Support	33	3	27	1	2	0	*	1	0	0
324	Petroleum and Coal Products	892	145	747	10	19	9	*	101	*	21
324110	Petroleum Refineries	835	127	708	10	7	2	*	98	0	19
324121	Asphalt Paving Mixture and Block	38	16	22	*	11	6	*	3	*	2
324199	Other Petroleum and Coal Products	5	*	5	*	0	0	*	0	0	0
325	Chemicals	1,734	119	1,598	18	58	25	3	18	1	12
325110	Petrochemicals	241	14	227	5	2	3	0	4	0	1
325120	Industrial Gases	26	*	17	*	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	1	W	*	*	0	0	0	0	1
325182	Carbon Black	11	*	10	0	0	*	0	0	0	0
325188	Other Basic Inorganic Chemicals	48	4	43	*	3	*	*	1	0	Q
325192	Cyclic Crudes and Intermediates	22	*	21	0	*	0	0	0	0	0
325193	Ethyl Alcohol	245	7	232	0	1	0	1	4	0	4
325199	Other Basic Organic Chemicals	367	20	347	*	11	3	2	1	0	4
325211	Plastics Materials and Resins	298	27	271	8	9	7	0	4	0	*
325212	Synthetic Rubber	21	3	18	*	2	*	1	*	0	1
325222	Noncellulosic Organic Fibers	9	4	6	*	2	2	*	*	*	0
325311	Nitrogenous Fertilizers	147	*	147	*	*	0	0	*	0	0
325312	Phosphatic Fertilizers	26	1	26	*	1	1	0	*	0	0
3254	Pharmaceuticals and Medicines	48	14	34	3	11	2	*	2	*	*
325412	Pharmaceutical Preparation	23	8	15	3	6	2	*	2	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	6	1	5	*	1	*	0	*	0	0
326	Plastics and Rubber Products	101	28	69	1	17	Q	*	Q	*	Q
327	Nonmetallic Mineral Products	265	38	226	1	19	2	3	13	*	2
327121	Brick and Structural Clay Tile	15	3	12	0	1	1	1	1	0	1
327211	Flat Glass	42	11	31	0	7	0	0	4	0	*
327212	Other Pressed and Blown Glass and Glassware	27	4	23	0	1	*	0	1	0	1
327213	Glass Containers	45	6	38	1	3	1	0	3	0	*
327215	Glass Products from Purchased Glass	4	1	4	*	*	0	*	1	0	*
327310	Cements	12	2	10	*	*	*	2	*	*	*
327410	Lime	3	*	3	*	*	0	*	0	0	0
327420	Gypsum	38	6	32	*	5	0	0	1	0	0
327993	Mineral Wool	24	1	22	*	*	0	0	1	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
331	Primary Metals	522	57	463	1	14	9	5	18	10	3
331111	Iron and Steel Mills	316	27	289	*	3	7	5	2	10	2
331112	Electrometallurgical Ferroalloy Products	1	*	1	*	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	18	2	16	*	1	*	0	1	0	0
3313	Alumina and Aluminum	93	8	85	*	3	0	0	4	0	0
331314	Secondary Smelting and Alloying of Aluminum	14	*	14	*	*	0	0	*	0	0
331315	Aluminum Sheet, Plate and Foils	39	3	36	*	3	0	0	*	0	0
331316	Aluminum Extruded Products	11	3	8	*	*	0	0	3	0	0
3314	Nonferrous Metals, except Aluminum	50	12	37	*	6	Q	*	5	*	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alumi	12	5	7	*	5	0	0	*	0	0
3315	Foundries	45	8	36	1	*	1	*	6	*	*
331511	Iron Foundries	14	4	10	*	*	1	*	3	0	0
331521	Aluminum Die-Casting Foundries	11	2	9	*	*	0	0	1	0	*
331524	Aluminum Foundries, except Die-Casting	8	1	7	*	*	0	0	1	0	*
332	Fabricated Metal Products	158	12	128	2	1	*	0	10	0	Q
333	Machinery	69	10	57	Q	3	*	0	4	0	*
334	Computer and Electronic Products	41	9	32	*	5	1	0	3	0	0
334413	Semiconductors and Related Devices	19	1	18	0	1	*	0	0	0	0
335	Electrical Equip., Appliances, and Components	35	5	29	*	2	2	0	1	0	1
336	Transportation Equipment	123	19	104	1	4	4	*	10	0	*
336111	Automobiles	15	1	14	0	1	0	*	0	0	*
336112	Light Trucks and Utility Vehicles	22	2	21	*	1	*	0	1	0	0
3364	Aerospace Product and Parts	29	6	23	*	1	3	0	1	0	*
336411	Aircraft	9	2	8	*	*	1	0	*	0	*
337	Furniture and Related Products	13	2	10	1	*	*	0	1	0	0
339	Miscellaneous	15	3	12	1	1	*	*	1	*	*
	Total	5,064	733	4,271	65	265	155	23	239	12	69

**Northeast Census Region**

311	Food	54	13	39	2	8	4	0	1	0	*
3112	Grain and Oilseed Milling	2	1	1	0	1	*	0	*	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	7	3	4	*	1	1	0	Q	0	0
3115	Dairy Products	8	2	6	1	1	*	0	*	0	*
3116	Animal Slaughtering and Processing	4	2	2	*	1	1	0	*	0	*
312	Beverage and Tobacco Products	6	2	4	*	*	1	0	*	0	0
3121	Beverages	5	1	4	*	*	1	0	*	0	0
3122	Tobacco	*	*	*	*	*	*	0	0	0	0
313	Textile Mills	5	1	4	*	*	1	0	*	0	0
314	Textile Product Mills	Q	0	Q	0	0	0	0	0	0	0
315	Apparel	*	0	*	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	2	1	1	*	*	*	*	1	0	*
321113	Sawmills	*	*	*	0	*	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	*	*	*	*	0	*	*	*	0	*
321219	Reconstituted Wood Products	*	*	*	0	0	0	0	0	0	0
3219	Other Wood Products	1	*	1	0	0	0	0	*	0	*
322	Paper	69	27	42	4	6	19	0	0	*	10
322110	Pulp Mills	1	1	0	0	0	1	0	0	0	0
322121	Paper Mills, except Newsprint	50	17	33	3	1	13	0	0	0	10
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	11	7	5	1	1	5	0	0	*	0
323	Printing and Related Support	6	*	5	*	0	0	0	0	0	0
324	Petroleum and Coal Products	41	25	16	1	10	2	*	14	0	*
324110	Petroleum Refineries	30	21	9	1	6	*	*	13	0	0
324121	Asphalt Paving Mixture and Block	9	4	5	*	3	1	0	*	0	*
324199	Other Petroleum and Coal Products	1	*	1	0	0	0	*	0	0	0

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**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
325	Chemicals	69	17	51	2	11	5	0	1	*	1
325110	Petrochemicals	*	*	0	0	*	0	0	0	0	0
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	*	*	*	0	0	0	0	0	0	*
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4	*	4	*	*	0	0	*	0	0
325192	Cyclic Crudes and Intermediates	5	0	5	0	0	0	0	0	0	0
325193	Ethyl Alcohol	2	0	2	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	13	2	11	*	1	1	0	0	0	0
325211	Plastics Materials and Resins	5	1	4	*	1	0	0	*	0	*
325212	Synthetic Rubber	*	*	*	*	0	0	0	*	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	*	0	*	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	21	7	14	2	6	*	0	*	*	*
325412	Pharmaceutical Preparation	9	4	5	2	2	0	0	*	0	*
32592	Photographic Film, Paper, Plate, and Chemicals	4	*	4	0	0	*	0	*	0	0
326	Plastics and Rubber Products	8	Q	7	*	Q	*	*	*	0	0
327	Nonmetallic Mineral Products	37	10	27	*	7	1	Q	2	0	*
327121	Brick and Structural Clay Tile	1	0	1	0	0	0	0	0	0	0
327211	Flat Glass	8	4	4	0	4	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	6	1	5	0	0	*	0	1	0	0
327213	Glass Containers	8	1	7	*	1	1	0	*	0	*
327215	Glass Products from Purchased Glass	1	*	1	*	*	0	*	*	0	*
327310	Cements	*	*	*	*	*	0	*	*	0	0
327410	Lime	0	0	0	0	0	0	0	0	0	0
327420	Gypsum	5	2	3	*	2	0	0	*	0	0
327993	Mineral Wool	3	1	3	0	0	0	0	1	0	0
331	Primary Metals	63	14	49	*	4	Q	*	2	6	1
331111	Iron and Steel Mills	34	8	26	*	*	*	0	0	6	1
331112	Electrometallurgical Ferroalloy Products	*	*	*	*	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	4	*	4	0	*	0	0	*	0	0
3313	Alumina and Aluminum	9	4	5	*	3	0	0	2	0	0
331314	Secondary Smelting and Alloying of Aluminum	2	*	2	0	*	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	5	2	3	0	2	0	0	0	0	0
331316	Aluminum Extruded Products	2	2	*	*	*	0	0	2	0	0
3314	Nonferrous Metals, except Aluminum	12	1	11	*	1	*	*	*	*	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alumi	*	*	*	*	*	0	0	*	0	0
3315	Foundries	4	*	3	*	*	*	*	*	0	*
331511	Iron Foundries	1	*	1	*	*	0	0	*	0	0
331521	Aluminum Die-Casting Foundries	1	*	1	0	*	0	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	*	*	*	*	*	0	0	0	0	0
332	Fabricated Metal Products	24	Q	24	0	Q	0	0	0	0	0
333	Machinery	9	Q	7	*	0	*	0	Q	0	0
334	Computer and Electronic Products	7	1	5	*	1	1	0	0	0	0
334413	Semiconductors and Related Devices	3	1	3	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	6	2	4	*	Q	Q	0	*	0	0
336	Transportation Equipment	14	3	10	*	1	3	0	0	0	0
336111	Automobiles	*	0	*	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	7	3	4	*	*	3	0	0	0	0
336411	Aircraft	3	1	2	0	0	1	0	0	0	0
337	Furniture and Related Products	2	*	2	*	*	*	0	*	0	0
339	Miscellaneous	6	1	5	*	*	*	0	*	0	0
	<b>Total</b>	<b>427</b>	<b>121</b>	<b>303</b>	<b>10</b>	<b>50</b>	<b>38</b>	<b>1</b>	<b>22</b>	<b>6</b>	<b>13</b>

**Midwest Census Region**

311	Food	244	76	165	5	42	11	1	19	*	8
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**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
3112	Grain and Oilseed Milling	82	22	60	4	7	4	*	7	*	3
311221	Wet Corn Milling	47	10	37	4	1	2	*	3	0	1
31131	Sugar Manufacturing	5	3	2	*	3	1	*	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	16	4	12	*	2	1	0	2	0	0
3115	Dairy Products	25	10	13	*	5	2	*	3	0	*
3116	Animal Slaughtering and Processing	58	26	33	1	Q	3	*	2	0	5
312	Beverage and Tobacco Products	8	4	4	*	1	1	*	Q	*	*
3121	Beverages	8	4	4	*	1	1	*	Q	*	*
3122	Tobacco	*	0	*	0	0	0	0	0	0	0
313	Textile Mills	1	*	1	*	*	0	0	*	0	0
314	Textile Product Mills	*	0	*	0	0	0	0	0	0	0
315	Apparel	*	0	*	0	0	0	0	0	0	0
316	Leather and Allied Products	1	*	*	0	*	0	0	*	0	0
321	Wood Products	6	1	5	*	*	*	*	1	0	*
321113	Sawmills	1	*	1	*	*	*	*	*	0	*
3212	Veneer, Plywood, and Engineered Woods	2	*	2	*	*	*	0	*	0	*
321219	Reconstituted Wood Products	2	*	2	0	*	0	0	*	0	*
3219	Other Wood Products	3	1	2	*	*	0	0	*	0	*
322	Paper	85	23	60	1	9	10	2	4	0	1
322110	Pulp Mills	1	*	1	0	*	0	0	*	0	*
322121	Paper Mills, except Newsprint	38	9	29	*	4	3	*	1	0	*
322122	Newsprint Mills	*	*	*	0	*	0	0	0	0	0
322130	Paperboard Mills	20	7	12	*	3	4	1	*	0	*
323	Printing and Related Support	12	1	11	*	*	0	0	Q	0	0
324	Petroleum and Coal Products	123	33	90	*	3	3	*	27	0	4
324110	Petroleum Refineries	105	27	78	*	*	1	0	27	0	3
324121	Asphalt Paving Mixture and Block	9	5	4	*	3	3	*	*	0	1
324199	Other Petroleum and Coal Products	2	*	2	*	0	0	0	0	0	0
325	Chemicals	331	21	303	*	10	3	2	6	0	4
325110	Petrochemicals	2	*	2	*	0	*	0	0	0	0
325120	Industrial Gases	1	*	1	*	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	*	W	*	0	0	0	0	0	*
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	1	11	0	1	0	0	*	0	0
325192	Cyclic Crudes and Intermediates	5	0	5	0	0	0	0	0	0	0
325193	Ethyl Alcohol	200	6	188	0	*	0	1	4	0	3
325199	Other Basic Organic Chemicals	15	2	13	*	1	*	0	*	0	0
325211	Plastics Materials and Resins	14	2	12	*	1	1	0	*	0	0
325212	Synthetic Rubber	3	1	3	*	1	0	1	0	0	0
325222	Noncellulosic Organic Fibers	*	*	*	*	*	0	0	0	0	0
325311	Nitrogenous Fertilizers	34	*	33	0	*	0	0	*	0	0
325312	Phosphatic Fertilizers	*	*	*	0	0	0	0	*	0	0
3254	Pharmaceuticals and Medicines	11	1	10	*	1	*	*	*	0	*
325412	Pharmaceutical Preparation	6	1	5	*	*	0	*	*	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	*	0	*	0	0	*	0	0
326	Plastics and Rubber Products	36	8	28	Q	Q	Q	0	*	0	0
327	Nonmetallic Mineral Products	69	7	62	Q	3	*	*	3	0	*
327121	Brick and Structural Clay Tile	3	1	3	0	0	0	*	*	0	*
327211	Flat Glass	14	1	12	0	0	0	0	1	0	0
327212	Other Pressed and Blown Glass and Glassware	8	1	7	0	1	0	0	*	0	0
327213	Glass Containers	12	1	11	*	0	0	0	1	0	0
327215	Glass Products from Purchased Glass	1	*	1	*	0	0	0	0	0	0
327310	Cements	2	*	2	0	*	*	*	*	0	*
327410	Lime	2	*	2	*	*	0	*	0	0	0
327420	Gypsum	7	1	7	0	1	0	0	*	0	0
327993	Mineral Wool	9	0	9	0	0	0	0	0	0	0
331	Primary Metals	261	21	239	1	1	4	5	8	4	*
331111	Iron and Steel Mills	196	13	183	*	*	3	5	2	4	0
331112	Electrometallurgical Ferroalloy Products	*	0	*	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	8	1	7	*	*	*	0	1	0	0

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		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
3313	Alumina and Aluminum	21	1	19	*	*	0	0	1	0	0
331314	Secondary Smelting and Alloying of Aluminum	6	*	6	*	0	0	0	*	0	0
331315	Aluminum Sheet, Plate and Foils	10	0	10	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	W	*	W	*	*	0	0	*	0	0
3314	Nonferrous Metals, except Aluminum	9	1	8	*	*	0	0	1	0	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alumi	2	0	2	0	0	0	0	0	0	0
3315	Foundries	26	4	21	1	*	*	*	3	0	*
331511	Iron Foundries	8	1	7	*	*	*	*	1	0	0
331521	Aluminum Die-Casting Foundries	7	2	5	*	0	0	0	1	0	*
331524	Aluminum Foundries, except Die-Casting	4	1	3	*	0	0	0	1	0	*
332	Fabricated Metal Products	79	8	55	Q	0	0	0	7	0	*
333	Machinery	42	8	32	Q	3	*	0	Q	0	*
334	Computer and Electronic Products	8	4	4	*	1	0	0	Q	0	0
334413	Semiconductors and Related Devices	1	*	1	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	10	Q	10	*	0	0	0	*	0	*
336	Transportation Equipment	68	9	59	Q	3	1	*	5	0	*
336111	Automobiles	11	1	10	0	1	0	*	0	0	*
336112	Light Trucks and Utility Vehicles	14	1	13	0	1	0	0	1	0	0
3364	Aerospace Product and Parts	6	*	5	*	*	*	0	*	0	0
336411	Aircraft	2	*	2	0	0	0	0	*	0	0
337	Furniture and Related Products	5	*	5	*	0	0	0	0	0	0
339	Miscellaneous	3	Q	2	*	0	*	0	Q	0	0
	Total	1,393	226	1,135	15	82	34	10	88	4	18
<b>South Census Region</b>											
311	Food	142	37	102	5	17	9	3	7	0	5
3112	Grain and Oilseed Milling	28	8	19	0	3	4	2	*	0	0
311221	Wet Corn Milling	4	1	3	0	0	0	1	0	0	0
31131	Sugar Manufacturing	6	1	5	0	0	0	1	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	19	6	12	4	1	2	0	*	0	0
3115	Dairy Products	6	2	4	*	2	*	0	*	0	0
3116	Animal Slaughtering and Processing	47	9	37	1	7	3	0	1	0	4
312	Beverage and Tobacco Products	15	7	8	1	4	2	*	1	*	*
3121	Beverages	12	4	7	*	2	1	*	Q	*	*
3122	Tobacco	3	3	1	1	2	1	*	*	0	*
313	Textile Mills	22	8	14	1	3	2	Q	3	0	*
314	Textile Product Mills	8	4	4	Q	*	1	*	2	0	0
315	Apparel	2	*	1	*	*	*	0	0	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	17	1	16	*	*	*	0	*	0	*
321113	Sawmills	2	*	2	*	*	0	0	*	0	*
3212	Veneer, Plywood, and Engineered Woods	11	*	11	*	*	*	0	*	0	*
321219	Reconstituted Wood Products	9	*	9	*	*	*	0	*	0	*
3219	Other Wood Products	2	*	2	*	0	0	0	*	0	*
322	Paper	178	56	122	5	17	29	4	3	1	3
322110	Pulp Mills	17	12	5	1	2	9	0	0	0	0
322121	Paper Mills, except Newsprint	55	5	49	0	*	2	1	2	1	1
322122	Newsprint Mills	1	1	*	0	1	0	0	0	0	0
322130	Paperboard Mills	85	32	53	3	10	16	3	*	0	3
323	Printing and Related Support	13	2	11	*	2	0	*	*	0	0
324	Petroleum and Coal Products	514	41	473	9	4	3	0	25	*	3
324110	Petroleum Refineries	496	35	461	9	1	1	0	23	0	3
324121	Asphalt Paving Mixture and Block	10	5	5	*	3	3	0	2	*	*
324199	Other Petroleum and Coal Products	1	0	1	0	0	0	0	0	0	0
325	Chemicals	1,291	78	1,203	15	35	18	2	11	*	7
325110	Petrochemicals	239	14	225	5	1	3	0	4	0	1
325120	Industrial Gases	24	0	15	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	*	W	0	*	0	0	0	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
325182	Carbon Black	10	*	10	0	0	*	0	0	0	0
325188	Other Basic Inorganic Chemicals	25	2	23	*	1	*	*	*	0	Q
325192	Cyclic Crudes and Intermediates	11	*	11	0	*	0	0	0	0	0
325193	Ethyl Alcohol	37	*	37	0	*	0	0	0	0	0
325199	Other Basic Organic Chemicals	337	16	321	*	9	Q	2	*	0	4
325211	Plastics Materials and Resins	278	24	254	8	7	6	0	4	0	0
325212	Synthetic Rubber	18	2	15	0	1	*	*	*	0	1
325222	Noncellulosic Organic Fibers	9	4	5	*	2	2	*	*	*	0
325311	Nitrogenous Fertilizers	112	*	112	*	*	0	0	*	0	0
325312	Phosphatic Fertilizers	24	1	23	0	1	0	0	0	0	0
3254	Pharmaceuticals and Medicines	11	5	6	1	4	2	0	1	0	0
325412	Pharmaceutical Preparation	6	3	3	1	3	2	0	1	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	1	*	*	0	*	0	*	*	0	0
326	Plastics and Rubber Products	47	15	29	*	11	Q	0	Q	0	Q
327	Nonmetallic Mineral Products	121	18	103	1	8	2	5	*	*	2
327121	Brick and Structural Clay Tile	10	2	7	0	1	1	1	*	0	*
327211	Flat Glass	15	4	11	0	2	0	0	2	0	0
327212	Other Pressed and Blown Glass and Glassware	13	2	11	0	0	0	0	1	0	1
327213	Glass Containers	16	3	13	1	1	*	0	1	0	0
327215	Glass Products from Purchased Glass	2	*	1	*	0	0	*	*	0	0
327310	Cements	9	1	7	*	*	1	*	*	*	*
327410	Lime	1	0	1	0	0	0	0	0	0	0
327420	Gypsum	18	3	15	0	3	0	0	*	0	0
327993	Mineral Wool	9	*	8	0	0	0	0	*	0	0
331	Primary Metals	157	13	144	*	4	5	*	5	0	1
331111	Iron and Steel Mills	74	5	68	*	3	4	0	*	0	1
331112	Electrometallurgical Ferroalloy Products	*	0	*	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	5	1	4	*	*	0	0	*	0	0
3313	Alumina and Aluminum	56	1	55	*	*	0	0	1	0	0
331314	Secondary Smelting and Alloying of Aluminum	5	0	5	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	22	*	21	*	*	0	0	*	0	0
331316	Aluminum Extruded Products	5	1	4	*	0	0	0	1	0	0
3314	Nonferrous Metals, except Aluminum	11	2	10	*	1	*	0	1	0	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alumi	*	0	*	0	0	0	0	0	0	0
3315	Foundries	11	3	8	*	*	1	*	3	0	0
331511	Iron Foundries	4	3	2	0	0	1	0	2	0	0
331521	Aluminum Die-Casting Foundries	3	*	3	0	*	0	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	2	0	2	0	0	0	0	0	0	0
332	Fabricated Metal Products	42	3	37	Q	Q	*	0	Q	0	Q
333	Machinery	18	Q	17	*	*	*	0	*	0	*
334	Computer and Electronic Products	8	3	5	*	3	0	0	*	0	0
334413	Semiconductors and Related Devices	3	1	3	0	1	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	17	3	14	*	1	Q	0	*	0	1
336	Transportation Equipment	29	5	24	*	1	*	0	4	0	*
336111	Automobiles	4	0	4	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	8	*	8	*	*	*	0	*	0	0
3364	Aerospace Product and Parts	7	1	5	*	*	0	0	1	0	*
336411	Aircraft	3	*	2	*	*	0	0	*	0	*
337	Furniture and Related Products	4	1	3	*	*	0	0	1	0	0
339	Miscellaneous	3	Q	2	*	*	0	0	*	0	*
	<b>Total</b>	<b>2,647</b>	<b>295</b>	<b>2,333</b>	<b>39</b>	<b>112</b>	<b>73</b>	<b>12</b>	<b>74</b>	<b>1</b>	<b>24</b>

**West Census Region**

311	Food	123	13	110	*	5	3	*	7	*	*
3112	Grain and Oilseed Milling	6	*	6	*	*	*	*	*	*	*
311221	Wet Corn Milling	1	*	1	0	0	0	0	*	0	0
31131	Sugar Manufacturing	4	*	4	0	0	*	*	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	55	5	50	*	2	1	0	2	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
3115	Dairy Products	26	2	23	*	1	*	0	1	0	*
3116	Animal Slaughtering and Processing	12	2	10	0	1	1	0	1	0	*
312	Beverage and Tobacco Products	9	2	7	*	1	Q	0	*	0	0
3121	Beverages	9	2	7	*	1	Q	0	*	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	2	*	2	*	*	0	0	0	0	0
314	Textile Product Mills	*	*	*	*	0	0	0	0	0	0
315	Apparel	0	0	*	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	9	1	7	*	*	*	0	*	0	1
321113	Sawmills	3	*	3	0	*	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	5	1	4	*	*	*	0	*	0	*
321219	Reconstituted Wood Products	2	0	2	0	0	0	0	0	0	0
3219	Other Wood Products	1	*	1	0	*	*	0	0	0	0
322	Paper	56	7	49	*	3	5	*	*	*	0
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	25	*	25	*	0	*	0	*	0	0
322122	Newsprint Mills	2	1	1	0	1	*	*	0	0	0
322130	Paperboard Mills	23	6	17	0	3	5	0	0	*	0
323	Printing and Related Support	2	Q	Q	0	Q	0	0	Q	0	0
324	Petroleum and Coal Products	215	46	169	*	1	1	0	35	0	13
324110	Petroleum Refineries	203	44	159	*	0	*	0	35	0	13
324121	Asphalt Paving Mixture and Block	9	1	8	0	Q	*	0	*	0	0
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0	0	0	0
325	Chemicals	43	2	41	*	2	0	0	*	0	1
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	18	*	18	*	0	0	0	0	0	0
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	6	*	5	0	*	0	0	*	0	0
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	0	0	0
325193	Ethyl Alcohol	6	*	6	0	*	0	0	0	0	*
325199	Other Basic Organic Chemicals	2	*	2	0	*	0	0	0	0	0
325211	Plastics Materials and Resins	1	0	1	0	0	0	0	0	0	0
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	*	0	*	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	1	0	1	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	3	0	3	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4	*	4	*	*	0	0	0	0	*
325412	Pharmaceutical Preparation	2	*	2	0	*	0	0	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	1	1	1	*	1	0	0	*	0	0
326	Plastics and Rubber Products	9	Q	5	*	*	*	*	Q	*	0
327	Nonmetallic Mineral Products	39	4	34	*	1	*	*	2	0	*
327121	Brick and Structural Clay Tile	1	*	1	0	0	0	0	*	0	0
327211	Flat Glass	5	1	4	0	0	0	0	1	0	*
327212	Other Pressed and Blown Glass and Glassware	1	*	1	0	0	0	0	*	0	0
327213	Glass Containers	10	1	8	0	1	0	0	*	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	*	0	0	*	0	0
327310	Cements	1	*	1	*	*	*	0	0	0	0
327410	Lime	*	0	*	0	0	0	0	0	0	0
327420	Gypsum	8	0	8	0	0	0	0	0	0	0
327993	Mineral Wool	2	*	2	*	*	0	0	0	0	0
331	Primary Metals	41	9	31	*	5	0	0	4	0	0
331111	Iron and Steel Mills	13	0	13	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	*	*	*	0	0	0	*	0	0
3313	Alumina and Aluminum	7	1	6	*	1	0	0	*	0	0
331314	Secondary Smelting and Alloying of Aluminum	1	*	1	*	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	2	1	2	0	1	0	0	0	0	0
331316	Aluminum Extruded Products	W	*	W	0	0	0	0	*	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**  
**Row: NAICS Codes, Value of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
3314	Nonferrous Metals, except Aluminum	17	8	8	*	4	0	0	4	0	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Alumi	9	5	5	0	4	0	0	*	0	0
3315	Foundries	4	*	4	*	0	0	0	*	0	0
331511	Iron Foundries	1	*	1	*	0	0	0	*	0	0
331521	Aluminum Die-Casting Foundries	*	*	*	*	0	0	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	1	*	1	*	0	0	0	0	0	0
332	Fabricated Metal Products	13	*	12	*	0	0	0	*	0	0
333	Machinery	Q	*	Q	*	0	0	0	0	0	0
334	Computer and Electronic Products	19	1	18	*	Q	0	0	0	0	0
334413	Semiconductors and Related Devices	12	*	12	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	Q	*	Q	*	0	0	0	*	0	0
336	Transportation Equipment	12	1	10	*	1	*	0	*	0	*
336111	Automobiles	*	0	*	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	10	1	8	*	1	*	0	*	0	*
336411	Aircraft	2	1	1	*	*	0	0	*	0	0
337	Furniture and Related Products	1	Q	Q	Q	*	0	0	*	0	0
339	Miscellaneous	3	*	3	*	*	0	*	*	*	0
	Total	597	91	500	2	21	10	1	54	*	15
<b>Economic Characteristic (f)</b>											
<b>Value of Shipments and Receipts (million dollars)</b>											
	Under 20	433	60	336	5	34	11	1	17	*	3
	20-49	370	50	317	3	20	11	1	19	*	5
	50-99	427	85	333	6	34	23	4	27	*	7
	100-249	770	115	646	6	63	22	4	25	1	7
	250-499	567	118	449	9	44	41	3	25	1	20
	500 and Over	2,497	306	2,191	36	70	47	11	126	10	27
	Total	5,064	733	4,271	65	265	155	23	239	12	69
<b>Employment Size</b>											
	Under 50	549	62	446	3	35	14	1	16	*	6
	50-99	471	62	401	4	27	14	2	20	*	5
	100-249	950	121	824	7	55	28	3	36	*	12
	250-499	987	181	804	12	73	34	6	61	*	17
	500-999	1,091	214	873	32	48	43	5	89	1	22
	1000 and Over	1,016	93	923	7	27	22	7	17	10	7
	Total	5,064	733	4,271	65	265	155	23	239	12	69

(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 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.

(c) '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.

(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

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2010;**

**Level: National and Regional Data;**

**Row: NAICS Codes, Value of Shipments and Employment Sizes;**

**Column: Energy Sources;**

**Unit: Billion Cubic Feet.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas			Alternative Energy Sources(b)				
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG

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 natural gas.

(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: Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2010 Annual Survey of Manufactures.'

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**

**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)				Coal Coke and Breeze	Other(e)
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG		
<b>Total United States</b>											
311	Food	5.2	9.4	6.3	6.4	17.0	7.5	1.7	11.3	81.6	8.8
3112	Grain and Oilseed Milling	2.0	6.8	1.5	0.0	11.2	19.4	1.3	11.4	81.6	16.6
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Foods	16.7	4.9	20.6	5.0	0.9	6.0	X	18.4	X	X
3115	Dairy Products	6.8	4.5	9.6	6.7	5.3	17.7	0.0	7.9	X	4.7
3116	Animal Slaughtering and Processing	9.6	29.8	3.2	33.3	40.3	9.3	15.2	11.2	X	10.6
312	Beverage and Tobacco Products	6.0	9.4	7.0	10.1	1.0	11.2	8.8	46.7	58.1	1.8
3121	Beverages	6.7	11.8	7.2	23.6	1.3	13.4	12.3	53.0	58.1	1.8
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
313	Textile Mills	9.1	17.1	11.5	42.9	30.7	24.5	54.1	26.6	X	69.7
314	Textile Product Mills	13.8	23.0	18.2	51.1	0.0	49.2	99.4	33.7	X	X
315	Apparel	12.8	19.3	16.4	96.4	17.6	44.1	X	X	X	X
316	Leather and Allied Products	9.0	8.9	10.3	X	0.0	X	X	34.4	X	X
321	Wood Products	4.1	4.2	4.5	16.5	4.7	20.3	30.1	8.0	X	4.9
321113	Sawmills	11.1	15.1	11.8	17.6	27.5	0.0	0.0	9.9	X	0.0
3212	Veneer, Plywood, and Engineered Woods	1.8	5.2	2.0	19.6	0.0	20.9	57.8	13.2	X	7.5
321219	Reconstituted Wood Products	1.4	12.4	1.5	79.6	0.0	39.9	X	27.4	X	0.0
3219	Other Wood Products	12.9	7.0	16.2	48.0	8.2	63.4	X	9.8	X	2.7
322	Paper	1.4	2.7	1.8	1.5	6.6	2.9	3.9	23.3	0.0	0.0
322110	Pulp Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0	X	0.0	0.0	0.0	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323	Printing and Related Support	13.5	28.7	15.4	32.0	38.6	X	99.0	43.0	X	X
324	Petroleum and Coal Products	0.2	0.9	0.2	0.2	5.6	7.4	0.0	0.3	94.3	1.3
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
324121	Asphalt Paving Mixture and Block	5.0	7.8	7.1	2.3	9.7	10.2	0.0	3.4	94.3	15.6
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	X	X	0.0	X	X	X
325	Chemicals	1.8	3.8	1.8	2.4	6.5	9.7	8.5	7.3	0.0	10.7
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
325120	Industrial Gases	33.8	85.4	5.6	85.4	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	0.0	0.0	X	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	3.6	13.7	3.9	0.0	14.0	61.2	0.0	43.4	X	52.1
325192	Cyclic Crudes and Intermediates	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325193	Ethyl Alcohol	4.8	14.1	5.1	X	10.4	X	14.0	23.7	X	20.7
325199	Other Basic Organic Chemicals	2.6	6.8	2.7	30.1	1.9	34.8	18.1	0.1	X	24.5
325211	Plastics Materials and Resins	8.0	4.1	8.8	0.3	11.3	7.7	X	1.8	X	0.0
325212	Synthetic Rubber	1.2	6.1	1.1	0.2	10.3	0.0	0.0	8.5	X	4.6
325222	Noncellulosic Organic Fibers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X
3254	Pharmaceuticals and Medicines	5.9	1.4	8.3	1.8	1.7	0.0	0.1	0.0	0.0	0.0
325412	Pharmaceutical Preparation	1.7	1.2	2.6	0.2	1.7	0.0	0.0	0.0	X	0.0
325992	Photographic Film, Paper, Plate, and Chemicals	9.4	1.3	11.8	72.0	0.0	0.0	X	5.5	X	X
326	Plastics and Rubber Products	10.5	21.7	12.8	46.2	24.3	51.7	98.0	57.0	99.0	92.9
327	Nonmetallic Mineral Products	2.2	3.5	2.5	18.3	6.3	16.1	10.5	2.8	0.0	3.3
327121	Brick and Structural Clay Tile	2.8	14.2	1.2	X	45.8	31.3	0.7	0.1	X	10.9
327211	Flat Glass	0.0	0.0	0.0	X	0.0	X	X	0.0	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.7	3.6	0.7	X	0.0	0.0	X	9.4	X	0.0
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
327215	Glass Products from Purchased Glass	2.5	0.8	3.0	17.6	0.0	X	0.0	0.8	X	0.0
327310	Cements	2.0	0.3	2.5	22.3	0.0	0.0	0.0	0.0	0.0	0.0
327410	Lime	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X	X
327420	Gypsum	0.2	0.0	0.2	0.0	0.0	X	X	0.0	X	X
327993	Mineral Wool	3.3	0.0	3.5	0.0	0.0	X	X	0.0	X	X
331	Primary Metals	0.9	1.2	0.9	8.2	1.2	5.0	0.2	2.6	0.1	1.4

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					Coal Coke and Breeze	Other(e)
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG			
331111	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
331112	Electrometallurgical Ferroalloy Products	0.0	0.0	0.0	0.0	X	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	4.4	20.8	4.5	0.0	26.8	0.0	X	32.3	X	X	X
3313	Alumina and Aluminum	0.1	0.4	0.1	2.8	0.9	X	X	0.2	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X	X
331316	Aluminum Extruded Products	1.2	0.9	1.6	10.9	17.1	X	X	0.2	X	X	X
3314	Nonferrous Metals, except Aluminum	9.3	4.4	11.2	60.8	0.5	67.2	0.0	4.9	0.0	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X	X
3315	Foundries	1.1	1.5	1.3	9.6	1.9	0.6	4.5	1.2	27.8	10.2	10.2
331511	Iron Foundries	1.2	2.0	1.6	4.0	2.4	0.0	0.0	2.7	X	X	X
331521	Aluminum Die-Casting Foundries	2.5	4.2	1.8	24.8	0.0	X	X	1.0	X	45.8	45.8
331524	Aluminum Foundries, except Die-Casting	4.2	2.6	4.7	21.4	0.0	X	X	0.0	X	0.0	0.0
332	Fabricated Metal Products	13.4	31.4	12.5	44.7	47.5	99.5	X	38.2	X	86.5	86.5
333	Machinery	10.6	24.8	12.1	51.5	26.4	13.6	X	45.2	X	64.0	64.0
334	Computer and Electronic Products	8.8	17.3	10.4	62.3	13.1	0.0	X	48.7	X	X	X
334413	Semiconductors and Related Devices	13.2	3.2	14.3	X	3.8	0.0	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	9.6	20.7	11.1	45.6	41.8	42.6	X	32.6	X	29.1	29.1
336	Transportation Equipment	4.9	16.4	5.1	27.0	21.2	8.2	31.2	29.8	X	97.7	97.7
336111	Automobiles	0.0	0.0	0.0	X	0.0	X	0.0	X	X	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X	X
3364	Aerospace Product and Parts	2.0	4.5	2.3	12.5	7.4	0.8	X	20.8	X	95.0	95.0
336411	Aircraft	0.7	2.2	0.7	0.0	16.1	0.0	X	3.2	X	0.0	0.0
337	Furniture and Related Products	9.4	22.4	10.7	34.3	53.5	98.8	X	29.9	X	X	X
339	Miscellaneous	11.0	26.9	12.4	43.3	48.7	53.3	99.0	43.2	99.0	63.9	63.9
	Total	1.0	2.3	1.1	3.7	5.2	2.9	3.4	3.4	2.1	3.0	3.0
<b>Northeast Census Region</b>												
311	Food	13.1	15.4	16.1	34.3	19.3	19.9	X	47.4	X	0.8	0.8
3112	Grain and Oilseed Milling	4.5	0.0	13.2	X	0.0	0.0	X	0.0	X	X	X
311221	Wet Corn Milling	X	X	X	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Foods	15.7	22.1	12.2	0.0	0.0	27.5	X	76.6	X	X	X
3115	Dairy Products	5.5	6.8	7.4	0.0	12.6	36.1	X	87.8	X	66.7	66.7
3116	Animal Slaughtering and Processing	8.2	14.1	5.7	1.2	25.5	0.0	X	0.0	X	0.0	0.0
312	Beverage and Tobacco Products	3.4	2.9	4.8	3.7	0.0	3.9	X	96.2	X	X	X
3121	Beverages	3.6	3.4	4.9	3.7	0.0	4.7	X	96.2	X	X	X
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
313	Textile Mills	9.8	14.4	12.9	92.2	46.9	17.4	X	36.3	X	X	X
314	Textile Product Mills	58.9	X	58.9	X	X	X	X	X	X	X	X
315	Apparel	64.7	X	89.7	X	X	X	X	X	X	X	X
316	Leather and Allied Products	12.5	X	16.5	X	X	X	X	X	X	X	X
321	Wood Products	5.4	0.2	8.4	14.0	0.0	17.4	57.8	0.1	X	6.6	6.6
321113	Sawmills	3.2	0.0	3.2	X	0.0	X	X	X	X	X	X
3212	Veneer, Plywood, and Engineered Woods	0.5	0.6	0.7	14.0	X	17.4	57.8	0.6	X	0.0	0.0
321219	Reconstituted Wood Products	0.0	0.0	0.0	X	X	X	X	0.0	X	X	X
3219	Other Wood Products	8.4	0.3	15.0	X	X	X	X	0.0	X	14.2	14.2
322	Paper	3.7	6.7	3.7	0.0	32.4	0.0	X	X	0.0	0.0	0.0
322110	Pulp Mills	0.0	0.0	X	X	X	0.0	X	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	0.0
322122	Newsprint Mills	X	X	X	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
323	Printing and Related Support	29.0	71.3	30.8	71.3	X	X	X	X	X	X	X
324	Petroleum and Coal Products	1.8	1.4	4.3	1.8	3.6	12.1	0.0	0.4	X	32.9	32.9
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X
324121	Asphalt Paving Mixture and Block	8.2	9.2	13.5	0.0	10.3	24.1	X	11.1	X	32.9	32.9
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	X	X	X	0.0	X	X	X	X
325	Chemicals	8.9	12.7	11.0	15.2	13.8	38.3	X	35.8	0.0	0.0	0.0
325110	Petrochemicals	0.0	0.0	X	X	0.0	X	X	X	X	X	X

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
325120	Industrial Gases	7.3	X	7.3	X	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	X	X	X	X	X	X	0.0
325182	Carbon Black	0.0	X	0.0	X	X	X	X	X	X	X
325188	Other Basic Inorganic Chemicals	8.1	0.4	8.8	0.0	0.4	X	X	0.0	X	X
325192	Cyclic Crudes and Intermediates	0.0	X	0.0	X	X	X	X	X	X	X
325193	Ethyl Alcohol	0.0	X	0.0	X	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	32.7	2.9	39.4	2.7	5.0	0.0	X	X	X	X
325211	Plastics Materials and Resins	9.2	3.1	12.5	46.3	4.4	X	X	0.0	X	0.0
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	X	X	X	0.0	X	X
325222	Noncellulosic Organic Fibers	X	X	X	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	X	0.0	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	X	0.0	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	5.1	2.1	7.3	0.1	2.7	0.0	X	0.0	0.0	0.0
325412	Pharmaceutical Preparation	3.0	1.5	5.1	0.1	2.4	0.0	X	0.0	X	0.0
325992	Photographic Film, Paper, Plate, and Chemicals	15.0	8.4	15.3	X	X	0.0	X	35.9	X	X
326	Plastics and Rubber Products	30.7	78.3	33.4	99.0	79.8	96.2	96.2	99.0	X	X
327	Nonmetallic Mineral Products	4.9	3.0	6.4	6.9	0.2	0.0	52.8	0.7	X	0.0
327121	Brick and Structural Clay Tile	0.0	X	0.0	X	X	X	X	X	X	X
327211	Flat Glass	0.0	0.0	0.0	X	0.0	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	0.4	0.0	0.5	X	X	0.0	X	0.0	X	X
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
327215	Glass Products from Purchased Glass	5.3	0.0	5.4	0.0	0.0	X	0.0	0.0	X	0.0
327310	Cements	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X
327410	Lime	X	X	X	X	X	X	X	X	X	X
327420	Gypsum	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
327993	Mineral Wool	21.3	0.0	26.7	X	X	X	X	0.0	X	X
331	Primary Metals	7.1	3.4	8.3	12.0	3.1	72.5	26.4	0.4	0.1	1.7
331111	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0	0.0
331112	Electrometallurgical Ferroalloy Products	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	7.5	44.3	7.7	X	44.9	X	X	0.0	X	X
3313	Alumina and Aluminum	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	X	0.0	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	X	0.0	X	X	X	X	X
331316	Aluminum Extruded Products	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
3314	Nonferrous Metals, except Aluminum	36.8	35.8	37.1	0.0	0.0	94.1	0.0	0.0	0.0	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
3315	Foundries	1.5	5.7	1.8	18.3	3.7	0.0	27.8	3.0	27.8	92.3
331511	Iron Foundries	1.2	3.3	0.0	15.0	4.9	X	X	16.9	X	X
331521	Aluminum Die-Casting Foundries	0.0	0.0	0.0	X	0.0	X	X	0.0	X	X
331524	Aluminum Foundries, except Die-Casting	2.8	5.6	2.9	10.0	0.0	X	X	X	X	X
332	Fabricated Metal Products	26.0	58.3	26.4	X	58.3	X	X	X	X	X
333	Machinery	27.2	57.4	31.0	91.6	X	0.0	X	90.5	X	X
334	Computer and Electronic Products	10.7	10.0	12.4	61.8	22.5	0.0	X	X	X	X
334413	Semiconductors and Related Devices	1.4	0.0	1.7	X	0.0	0.0	X	X	X	X
335	Electrical Equip., Appliances, and Components	23.2	37.3	26.3	90.6	60.3	50.7	X	0.0	X	X
336	Transportation Equipment	11.2	1.2	15.0	42.5	0.0	0.0	X	X	X	X
336111	Automobiles	0.0	X	0.0	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	X	X	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	1.3	1.2	0.7	52.2	0.0	0.0	X	X	X	X
336411	Aircraft	0.0	0.0	0.0	X	X	0.0	X	X	X	X
337	Furniture and Related Products	25.1	49.3	30.0	99.0	75.9	98.8	X	63.5	X	X
339	Miscellaneous	17.0	38.3	19.0	72.9	58.6	56.3	X	99.0	X	X
	Total	3.1	3.2	4.1	7.3	6.0	5.8	46.0	4.7	0.1	1.1
<b>Midwest Census Region</b>											
311	Food	9.0	16.0	11.1	6.4	28.0	7.8	6.0	13.5	87.2	11.8
3112	Grain and Oilseed Milling	1.3	4.5	1.2	0.0	5.9	10.9	7.6	12.2	87.2	16.6
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
3114	Fruit and Vegetable Preserving and Specialty Foods	3.7	10.4	4.6	70.9	1.9	0.0	X	20.5	X	X
3115	Dairy Products	3.3	6.6	5.3	38.4	7.5	21.7	0.0	11.2	X	4.9
3116	Animal Slaughtering and Processing	19.6	44.9	4.1	41.8	60.6	19.4	15.2	18.7	X	16.3
312	Beverage and Tobacco Products	15.7	33.2	6.8	69.1	0.9	0.9	12.8	85.6	73.8	4.2
3121	Beverages	15.8	33.2	6.9	69.1	0.9	0.9	12.8	85.6	73.8	4.2
3122	Tobacco	0.0	X	0.0	X	X	X	X	X	X	X
313	Textile Mills	6.4	16.1	8.9	83.4	0.0	X	X	18.7	X	X
314	Textile Product Mills	62.5	X	62.5	X	X	X	X	X	X	X
315	Apparel	69.8	X	69.8	X	X	X	X	X	X	X
316	Leather and Allied Products	10.6	8.9	11.8	X	0.0	X	X	34.4	X	X
321	Wood Products	4.4	10.6	4.8	34.6	6.1	68.3	0.0	18.9	X	13.7
321113	Sawmills	1.9	13.1	1.9	18.4	32.7	0.0	0.0	20.0	X	0.0
3212	Veneer, Plywood, and Engineered Woods	4.2	30.4	4.0	62.2	0.0	69.9	X	46.7	X	46.5
321219	Reconstituted Wood Products	0.8	0.0	0.8	X	0.0	X	X	0.0	X	0.0
3219	Other Wood Products	8.4	11.4	10.7	54.5	6.8	X	X	22.2	X	2.7
322	Paper	5.4	8.8	6.8	16.0	9.6	14.3	13.5	40.6	X	0.0
322110	Pulp Mills	0.0	0.0	0.0	X	0.0	X	X	0.0	X	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322122	Newsprint Mills	0.0	0.0	0.0	X	0.0	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	16.5	42.7	18.0	43.8	58.4	X	X	56.8	X	X
324	Petroleum and Coal Products	0.7	2.5	0.6	0.0	22.0	9.6	0.0	1.1	X	4.8
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
324121	Asphalt Paving Mixture and Block	8.4	15.2	8.1	0.0	25.3	11.4	0.0	2.8	X	19.3
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	X	X	X	X	X	X
325	Chemicals	3.9	13.4	4.2	49.0	23.8	27.4	7.3	20.4	X	20.8
325110	Petrochemicals	0.0	0.0	0.0	0.0	X	0.0	X	X	X	X
325120	Industrial Gases	9.0	85.4	0.4	85.4	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	0.0	X	X	X	X	X	0.0
325182	Carbon Black	0.0	X	0.0	X	X	X	X	X	X	X
325188	Other Basic Inorganic Chemicals	9.6	18.9	10.9	X	19.2	X	X	46.9	X	X
325192	Cyclic Crudes and Intermediates	0.0	X	0.0	X	X	X	X	X	X	X
325193	Ethyl Alcohol	5.8	15.5	6.3	X	25.9	X	14.0	23.7	X	23.9
325199	Other Basic Organic Chemicals	2.8	11.3	3.3	0.0	14.8	76.5	X	0.1	X	X
325211	Plastics Materials and Resins	2.5	7.2	2.8	3.6	18.4	3.8	X	37.3	X	X
325212	Synthetic Rubber	0.6	1.8	0.6	58.0	1.8	X	0.0	51.2	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	X	0.0	X	X	0.0	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	X	X	X	0.0	X	X
3254	Pharmaceuticals and Medicines	22.5	1.5	24.9	13.4	2.3	0.0	0.1	0.0	X	0.0
325412	Pharmaceutical Preparation	2.4	2.0	2.7	17.2	3.4	X	0.0	0.0	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.0	0.0	X	0.0	X	X	0.0	X	X
326	Plastics and Rubber Products	20.3	42.0	22.9	53.0	58.2	84.9	X	58.6	X	X
327	Nonmetallic Mineral Products	4.1	10.0	4.3	51.4	20.1	0.0	0.0	6.8	X	0.0
327121	Brick and Structural Clay Tile	3.7	0.0	4.5	X	X	X	0.0	0.0	X	0.0
327211	Flat Glass	0.0	0.0	0.0	X	X	X	X	0.0	X	X
327212	Other Pressed and Blown Glass and Glassware	0.7	0.0	0.8	X	0.0	X	X	0.0	X	X
327213	Glass Containers	0.0	0.0	0.0	0.0	X	X	X	0.0	X	X
327215	Glass Products from Purchased Glass	5.4	0.0	5.5	0.0	X	X	X	0.0	X	X
327310	Cements	0.8	0.0	1.0	X	0.0	0.0	0.0	0.0	X	0.0
327410	Lime	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X	X
327420	Gypsum	1.0	0.0	1.0	X	0.0	X	X	0.0	X	X
327993	Mineral Wool	2.5	X	2.5	X	X	X	X	X	X	X
331	Primary Metals	0.2	1.7	0.2	10.6	12.1	0.0	0.0	4.3	0.0	8.0
331111	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
331112	Electrometallurgical Ferroalloy Products	0.0	X	0.0	X	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	4.3	26.6	3.3	0.0	89.6	0.0	X	34.3	X	X
3313	Alumina and Aluminum	0.1	2.0	0.1	7.8	58.1	X	X	0.5	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	0.0	X	X	X	0.0	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	0.0	X	X	X	X	X	X	X
331316	Aluminum Extruded Products	1.4	9.7	0.6	74.8	58.1	X	X	2.9	X	X

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas					Alternative Energy Sources(b)				
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
3314	Nonferrous Metals, except Aluminum	3.8	19.6	4.3	82.1	9.7	X	X	28.9	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	0.0	X	0.0	X	X	X	X	X	X	X
3315	Foundries	1.5	2.6	1.5	11.2	0.0	0.0	0.0	1.9	X	8.0
331511	Iron Foundries	1.5	10.3	1.6	3.2	0.0	0.0	0.0	10.6	X	X
331521	Aluminum Die-Casting Foundries	3.7	4.7	2.8	25.3	X	X	X	1.2	X	45.8
331524	Aluminum Foundries, except Die-Casting	4.4	2.7	5.5	27.3	X	X	X	0.0	X	0.0
332	Fabricated Metal Products	21.7	42.7	17.8	53.1	X	X	X	46.9	X	90.8
333	Machinery	14.3	28.9	17.1	59.4	27.5	99.0	X	60.5	X	99.0
334	Computer and Electronic Products	22.8	38.4	26.0	65.5	41.0	X	X	54.7	X	X
334413	Semiconductors and Related Devices	4.9	0.0	4.9	X	0.0	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	21.0	56.3	21.7	97.5	X	X	X	76.0	X	95.9
336	Transportation Equipment	8.0	27.2	8.3	57.1	34.5	37.2	31.2	44.7	X	98.5
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	X	0.0	X	X	0.0	X	X
3364	Aerospace Product and Parts	2.0	17.6	2.1	83.8	87.1	12.1	X	41.7	X	X
336411	Aircraft	1.7	0.0	1.7	X	X	X	X	0.0	X	X
337	Furniture and Related Products	17.0	40.7	17.5	40.7	X	X	X	X	X	X
339	Miscellaneous	23.7	56.8	26.6	46.3	X	93.0	X	61.4	X	X
	Total	2.4	6.3	2.4	13.8	15.3	7.3	2.9	6.6	1.0	6.9
<b>South Census Region</b>											
311	Food	5.0	10.8	5.9	8.5	15.0	17.5	0.0	32.1	X	13.9
3112	Grain and Oilseed Milling	6.9	23.6	3.8	X	36.9	41.7	0.0	38.2	X	X
311221	Wet Corn Milling	0.0	0.0	0.0	X	X	X	0.0	X	X	X
31131	Sugar Manufacturing	0.0	0.0	0.0	X	X	X	0.0	X	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Foods	3.1	2.2	4.8	0.0	1.5	1.8	X	28.5	X	X
3115	Dairy Products	3.9	3.3	6.5	14.6	3.8	0.0	X	10.9	X	X
3116	Animal Slaughtering and Processing	4.7	9.2	5.5	48.8	10.6	14.7	X	20.9	X	14.6
312	Beverage and Tobacco Products	8.8	5.2	16.0	13.5	1.2	5.7	3.8	34.7	36.7	0.4
3121	Beverages	11.3	8.5	17.5	59.8	2.1	8.2	36.7	51.9	36.7	0.4
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
313	Textile Mills	12.1	20.9	16.0	47.4	35.2	37.1	54.1	29.7	X	69.7
314	Textile Product Mills	15.3	23.1	21.1	51.4	0.0	49.2	99.4	33.7	X	X
315	Apparel	12.4	19.3	16.2	96.4	17.6	44.1	X	X	X	X
316	Leather and Allied Products	39.9	X	39.9	X	X	X	X	X	X	X
321	Wood Products	7.7	13.4	8.1	47.1	9.4	39.9	X	41.1	X	3.3
321113	Sawmills	31.5	28.0	34.3	55.4	32.7	X	X	0.0	X	0.0
3212	Veneer, Plywood, and Engineered Woods	2.1	15.8	2.2	59.7	0.0	39.9	X	46.3	X	0.0
321219	Reconstituted Wood Products	2.0	15.9	2.2	79.6	0.0	39.9	X	46.3	X	0.0
3219	Other Wood Products	38.0	58.6	39.0	97.7	X	X	X	56.6	X	43.8
322	Paper	1.7	3.0	2.2	1.8	7.1	4.1	0.0	8.9	0.0	0.0
322110	Pulp Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0	X	0.0	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	28.6	44.2	33.2	53.7	49.8	X	99.0	99.0	X	X
324	Petroleum and Coal Products	0.2	1.5	0.2	0.1	5.4	16.2	X	0.3	94.3	4.1
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
324121	Asphalt Paving Mixture and Block	12.0	11.3	23.3	5.1	6.6	20.4	X	3.5	94.3	44.0
324199	Other Petroleum and Coal Products	0.0	X	0.0	X	X	X	X	X	X	X
325	Chemicals	2.1	3.8	2.1	1.7	7.1	7.8	14.5	4.4	0.0	14.5
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	0.0
325120	Industrial Gases	36.1	X	6.2	X	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325182	Carbon Black	0.0	0.0	0.0	X	X	0.0	X	X	X	X
325188	Other Basic Inorganic Chemicals	4.6	22.2	4.7	0.0	26.5	61.2	0.0	58.2	X	52.1
325192	Cyclic Crudes and Intermediates	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325193	Ethyl Alcohol	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325199	Other Basic Organic Chemicals	2.5	8.4	2.6	42.3	1.6	57.0	18.1	0.0	X	24.5

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas					Alternative Energy Sources(b)				
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
325211	Plastics Materials and Resins	8.6	4.6	9.4	0.2	13.4	8.9	X	1.2	X	X
325212	Synthetic Rubber	1.4	8.1	1.3	X	17.1	0.0	X	0.0	X	4.6
325222	Noncellulosic Organic Fibers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	0.0	0.0	X	X	X	X
3254	Pharmaceuticals and Medicines	3.3	1.8	6.2	0.0	2.2	0.0	X	0.0	X	X
325412	Pharmaceutical Preparation	4.3	2.3	9.7	0.0	2.7	0.0	X	0.0	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.7	0.0	1.1	X	0.0	X	X	0.0	X	X
326	Plastics and Rubber Products	15.5	24.1	20.9	97.8	26.1	61.7	X	65.6	X	92.9
327	Nonmetallic Mineral Products	3.2	6.2	3.6	2.6	13.0	24.2	0.3	2.4	0.0	4.2
327121	Brick and Structural Clay Tile	4.3	19.9	1.4	X	45.8	31.3	0.8	0.1	X	15.1
327211	Flat Glass	0.0	0.0	0.0	X	0.0	X	X	0.0	X	X
327212	Other Pressed and Blown Glass and Glassware	1.4	7.5	1.5	X	X	X	X	21.8	X	0.0
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X
327215	Glass Products from Purchased Glass	2.6	1.1	3.8	59.6	X	X	X	1.1	X	X
327310	Cements	2.9	0.5	3.5	91.6	0.0	0.0	0.0	0.0	0.0	0.0
327410	Lime	0.0	X	0.0	X	X	X	X	X	X	X
327420	Gypsum	0.0	0.0	0.0	X	0.0	X	X	0.0	X	X
327993	Mineral Wool	2.8	0.0	2.9	X	X	X	X	0.0	X	X
331	Primary Metals	0.5	2.8	0.5	10.8	0.3	0.1	37.4	6.9	X	0.0
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	X	0.0	X	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	12.0	41.5	13.6	0.0	0.0	X	X	66.7	X	X
3313	Alumina and Aluminum	0.2	0.0	0.2	0.0	0.0	X	X	0.0	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	0.0	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
331316	Aluminum Extruded Products	2.5	0.0	3.3	0.0	X	X	X	0.0	X	X
3314	Nonferrous Metals, except Aluminum	2.3	10.5	1.9	61.3	1.6	0.0	X	28.2	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	0.0	X	0.0	X	X	X	X	X	X	X
3315	Foundries	2.8	1.2	4.2	41.5	0.0	0.7	37.4	1.5	X	X
331511	Iron Foundries	2.5	1.4	7.0	X	X	0.0	X	1.9	X	X
331521	Aluminum Die-Casting Foundries	1.5	0.0	1.6	X	0.0	X	X	0.0	X	X
331524	Aluminum Foundries, except Die-Casting	13.4	X	13.4	X	X	X	X	X	X	X
332	Fabricated Metal Products	27.7	44.6	30.6	82.0	69.3	99.5	X	58.6	X	99.4
333	Machinery	23.6	51.2	24.4	61.1	83.8	99.0	X	65.1	X	82.5
334	Computer and Electronic Products	11.2	11.3	16.1	94.7	11.3	X	X	13.8	X	X
334413	Semiconductors and Related Devices	2.5	7.1	2.6	X	7.1	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	15.8	27.6	18.6	74.7	38.3	74.9	X	61.1	X	30.6
336	Transportation Equipment	10.6	38.5	8.8	14.9	42.0	0.0	X	42.2	X	0.0
336111	Automobiles	0.0	X	0.0	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	X	X
3364	Aerospace Product and Parts	5.7	4.2	7.0	11.9	15.4	X	X	0.0	X	0.0
336411	Aircraft	1.8	0.0	2.0	0.0	0.0	X	X	0.0	X	0.0
337	Furniture and Related Products	15.5	33.9	18.2	57.2	96.1	X	X	38.2	X	X
339	Miscellaneous	26.9	51.4	29.8	73.0	77.1	X	X	57.3	X	63.9
	Total	1.2	2.5	1.3	2.5	4.6	4.0	5.6	5.6	17.5	6.9
<b>West Census Region</b>											
311	Food	14.3	15.2	16.0	13.8	5.0	8.0	25.9	25.9	0.0	52.7
3112	Grain and Oilseed Milling	11.2	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
311221	Wet Corn Milling	0.0	0.0	0.0	X	X	X	X	0.0	X	X
31131	Sugar Manufacturing	0.0	0.0	0.0	X	X	0.0	0.0	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Foods	29.2	9.7	32.3	0.0	1.4	2.8	X	29.1	X	X
3115	Dairy Products	16.6	11.6	18.5	31.5	26.5	91.9	X	7.6	X	0.0
3116	Animal Slaughtering and Processing	9.1	14.8	10.6	X	7.0	0.0	X	13.6	X	54.1
312	Beverage and Tobacco Products	14.8	25.1	12.6	75.8	3.7	91.1	X	56.9	X	X
3121	Beverages	14.8	25.1	12.6	75.8	3.7	91.1	X	56.9	X	X
3122	Tobacco	X	X	X	X	X	X	X	X	X	X
313	Textile Mills	28.9	57.4	30.6	91.9	58.1	X	X	X	X	X

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
314	Textile Product Mills	74.6	99.4	99.4	99.4	X	X	X	X	X	X
315	Apparel	13.7	X	13.7	X	X	X	X	X	X	X
316	Leather and Allied Products	24.7	X	24.7	X	X	X	X	X	X	X
321	Wood Products	3.2	3.1	3.6	0.0	5.5	14.8	X	1.5	X	0.0
321113	Sawmills	1.7	21.4	1.5	X	53.6	X	X	X	X	0.0
3212	Veneer, Plywood, and Engineered Woods	4.7	0.5	5.9	0.0	0.0	0.0	X	1.5	X	0.0
321219	Reconstituted Wood Products	0.9	X	0.9	X	X	X	X	X	X	X
3219	Other Wood Products	17.7	63.4	18.5	X	52.5	63.4	X	X	X	X
322	Paper	3.8	0.5	4.4	0.0	0.0	0.0	0.0	76.8	0.0	X
322110	Pulp Mills	0.0	X	0.0	X	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	X	0.0	X	0.0	X	X
322122	Newsprint Mills	0.0	0.0	0.0	X	0.0	0.0	0.0	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	X	0.0	0.0	X	X	0.0	X
323	Printing and Related Support	41.8	66.2	62.2	X	66.2	X	X	66.2	X	X
324	Petroleum and Coal Products	0.5	1.4	0.5	0.0	46.5	15.4	X	0.1	X	0.2
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	X	0.0	X	0.0	X	0.0
324121	Asphalt Paving Mixture and Block	10.3	43.6	9.9	X	52.4	57.6	X	13.3	X	X
324199	Other Petroleum and Coal Products	0.0	X	0.0	X	X	X	X	X	X	X
325	Chemicals	2.1	2.8	2.2	61.7	0.9	X	X	3.8	X	0.0
325110	Petrochemicals	X	X	X	X	X	X	X	X	X	X
325120	Industrial Gases	29.1	X	29.1	X	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	0.0	X	X	X	X	X	X
325182	Carbon Black	0.0	X	0.0	X	X	X	X	X	X	X
325188	Other Basic Inorganic Chemicals	2.2	0.0	2.3	X	0.0	X	X	0.0	X	X
325192	Cyclic Crudes and Intermediates	0.0	X	0.0	X	X	X	X	X	X	X
325193	Ethyl Alcohol	0.0	0.0	0.0	X	0.0	X	X	X	X	0.0
325199	Other Basic Organic Chemicals	1.8	4.7	2.0	X	4.7	X	X	X	X	X
325211	Plastics Materials and Resins	14.1	X	14.4	X	X	X	X	X	X	X
325212	Synthetic Rubber	0.0	X	0.0	X	X	X	X	X	X	X
325222	Noncellulosic Organic Fibers	0.0	X	0.0	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	X	0.0	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	X	0.0	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	4.8	17.1	5.1	69.1	0.1	X	X	X	X	0.0
325412	Pharmaceutical Preparation	2.9	0.0	3.2	X	0.0	X	X	X	X	0.0
325992	Photographic Film, Paper, Plate, and Chemicals	0.5	1.0	0.1	72.0	0.0	X	X	17.5	X	X
326	Plastics and Rubber Products	44.0	93.5	42.5	85.6	99.0	99.0	99.0	94.0	99.0	X
327	Nonmetallic Mineral Products	8.3	6.5	9.3	49.6	0.0	0.0	0.0	11.0	X	0.0
327121	Brick and Structural Clay Tile	0.0	0.0	0.0	X	X	X	X	0.0	X	X
327211	Flat Glass	0.0	0.0	0.0	X	X	X	X	0.0	X	0.0
327212	Other Pressed and Blown Glass and Glassware	1.5	57.9	0.5	X	X	X	X	57.9	X	X
327213	Glass Containers	0.0	0.0	0.0	X	0.0	X	X	0.0	X	X
327215	Glass Products from Purchased Glass	10.9	0.0	18.9	0.0	0.0	X	X	0.0	X	X
327310	Cements	0.4	0.0	0.6	0.0	0.0	0.0	0.0	X	X	X
327410	Lime	0.0	X	0.0	X	X	X	X	X	X	X
327420	Gypsum	0.1	X	0.1	X	X	X	X	X	X	X
327993	Mineral Wool	2.9	0.0	3.0	0.0	0.0	X	X	X	X	X
331	Primary Metals	2.4	0.1	0.5	7.6	0.0	X	X	0.2	X	X
331111	Iron and Steel Mills	0.0	X	0.0	X	X	X	X	X	X	X
331112	Electrometallurgical Ferroalloy Products	X	X	X	X	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	18.1	0.0	18.5	0.0	X	X	X	0.0	X	X
3313	Alumina and Aluminum	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	0.0	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	X	0.0	X	X	X	X	X
331316	Aluminum Extruded Products	0.0	0.0	0.0	X	X	X	X	0.0	X	X
3314	Nonferrous Metals, except Aluminum	5.8	0.0	1.5	0.0	0.0	X	X	0.0	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	0.0	0.0	0.0	X	0.0	X	X	0.0	X	X
3315	Foundries	1.9	4.7	1.9	10.3	X	X	X	5.0	X	X
331511	Iron Foundries	1.8	34.4	1.0	0.0	X	X	X	74.9	X	X
331521	Aluminum Die-Casting Foundries	0.0	0.0	0.0	0.0	X	X	X	0.0	X	X
331524	Aluminum Foundries, except Die-Casting	1.7	24.0	1.6	24.0	X	X	X	X	X	X
332	Fabricated Metal Products	30.7	98.9	33.1	86.4	X	X	X	99.5	X	X

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas				Alternative Energy Sources(b)					Other(e)
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	
333	Machinery	58.8	99.0	59.1	99.0	X	X	X	X	X	X
334	Computer and Electronic Products	16.3	45.3	17.0	90.7	52.3	X	X	X	X	X
334413	Semiconductors and Related Devices	21.3	0.0	21.7	X	0.0	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	51.6	98.9	51.4	98.9	X	X	X	98.9	X	X
336	Transportation Equipment	7.9	17.5	8.7	0.1	6.3	0.0	X	71.6	X	96.5
336111	Automobiles	0.0	X	0.0	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	0.0	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	4.3	17.7	4.3	0.1	6.3	0.0	X	86.1	X	96.5
336411	Aircraft	2.2	6.9	0.4	0.0	16.1	0.0	X	85.2	X	X
337	Furniture and Related Products	46.4	61.6	60.4	61.6	70.0	X	X	70.0	X	X
339	Miscellaneous	29.0	62.2	30.4	80.1	93.6	X	99.0	99.0	99.0	X
	Total	3.2	4.5	3.8	22.2	4.1	5.8	19.1	7.3	49.4	1.5
<b>Economic Characteristic (f)</b>											
<b>Value of Shipments and Receipts (million dollars)</b>											
	Under 20	9.2	20.8	10.2	16.0	34.6	12.5	14.5	21.8	68.6	12.8
	20-49	6.8	9.6	7.7	24.7	7.1	14.4	1.6	22.6	65.5	20.1
	50-99	4.0	6.3	4.8	13.1	11.3	10.6	16.7	11.1	9.1	15.9
	100-249	2.2	5.0	2.4	16.6	7.5	8.7	10.1	10.6	6.6	12.5
	250-499	1.7	4.6	1.6	19.8	7.5	2.6	7.6	14.5	0.0	4.5
	500 and Over	0.3	1.4	0.3	0.3	3.7	4.9	0.8	2.0	0.0	1.0
	Total	1.0	2.3	1.1	3.7	5.2	2.9	3.4	3.4	2.1	3.0
<b>Employment Size</b>											
	Under 50	7.3	19.8	7.8	17.0	33.0	10.0	6.4	24.6	91.5	13.1
	50-99	4.2	8.2	4.7	20.8	8.9	16.0	9.1	19.4	71.7	20.5
	100-249	2.6	4.7	2.9	11.2	7.7	8.2	19.9	8.5	0.8	8.2
	250-499	1.4	3.7	1.4	7.0	6.9	4.7	0.1	6.2	1.5	7.3
	500-999	0.9	2.1	0.9	5.9	5.4	2.2	11.7	3.6	0.0	1.4
	1000 and Over	0.6	3.7	0.6	3.9	6.9	9.9	0.0	10.9	0.0	0.0
	Total	1.0	2.3	1.1	3.7	5.2	2.9	3.4	3.4	2.1	3.0

(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 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.

(c) '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.

(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 natural gas.

(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.

**RSE Table 10.2 Relative Standard Errors for Table 10.2;**  
**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Natural Gas			Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze

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: Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2010 Annual Survey of Manufactures.'