Table 3.5 Selected Byproducts in Fuel Consumption, 2002; Level: National Data and Regional Totals; Row: NAICS Codes; Column: Energy Sources; Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Blast Furnace/Coke Oven Gases	Waste Gas	Petroleum Coke	Pulping Liquor or Black Liquor	Wood Chips, Bark	Waste Oils/Tars and Waste Materials	RSE Row Factors	
Total United States										
	RSE Column Factors:	1.1	0.6	1.1	1.2	0.9	1.0	1.3		
311	Food	6	0	3	0	0	2	1	5.3	
311221	Wet Corn Milling	3	0	*	0	0	2	*	0.9	
31131 311421	Sugar Fruit and Vegetable Canning	1	0	*	0	0	0	0	0.9 0.9	
312	Beverage and Tobacco Products	2	0	1	0	0	1	*	1.9	
3121	Beverages	2	0	1	0	0	1	*	1.9	
3122	Tobacco	0	0	0	0	0	0	0		
313 314	Textile Mills Textile Product Mills	Q	0	0	0	0	Q	0		
315	Apparel	0	0	0	0	0	0	0		
316	Leather and Allied Products	0	0	0	0	0	0	0		
321	Wood Products	210	0	0	0	0	205	6		
321113 3212	Sawmills Veneer, Plywood, and Engineered Woods	85 90	0	0	0	0	83 89	2	10.6 2.6	
3212	Other Wood Products	34	0	0	0	0	30	4		
322	Paper	1,158	0	1	W	820	316	W	1.0	
322110	Pulp Mills	175	0	1	*	140	33	0		
322121	Paper Mills, except Newsprint	464	0	*	W	336	114	W	0.9	
322122 322130	Newsprint Mills Paperboard Mills	W 496	0	0	0	W 335	13 155	1 5		
323	Printing and Related Support	490	0	0	0	0	0	0		
324	Petroleum and Coal Products	1,966	4	1,396	565	*	0	2		
324110	Petroleum Refineries	1,946	0	1,388	558	0	0	*	1.0	
324199	Other Petroleum and Coal Products	18	4	7	6	0	0	0		
325 325110	Chemicals Petrochemicals	503 167	0	483 160	W 0	0	0	W 7	1.5 0.9	
325120	Industrial Gases	*	0	*	0	0	0	0		
325181	Alkalies and Chlorine	*	0	0	0	0	0	*		
325182	Carbon Black	16	0	16	0	*	0	0		
325188	Other Basic Inorganic Chemicals	8	0	8	0	0	0	0		
325192 325193	Cyclic Crudes and Intermediates Ethyl Alcohol	4	0	2	0	0	0	2		
325199	Other Basic Organic Chemicals	153	0	151	0	0	0	3		
325211	Plastics Materials and Resins	144	0	143	0	0	0	2		
325212	Synthetic Rubber	*	0	0	0	0	0	*	8.0	
325222	Noncellulosic Organic Fibers	2	0	1	0	0	0	*	0.9	
325311 325312	Nitrogenous Fertilizers Phosphatic Fertilizers	2	0	2	0	0	0	0	0.9 0.0	
3254	Pharmaceuticals and Medicines	*	0	*	0	0	0	*	0.9	
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0	0.9	
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0		
326 327	Plastics and Rubber Products Nonmetallic Mineral Products	96	0	*	0 85	0	0 Q	5	21.1	
3272	Glass and Glass Products	0	0	0	0	0	0	0		
327211	Flat Glass	0	0	0	0	0	0	0		
327213	Glass Containers	0	0	0	0	0	0	0		
327310	Cements	64	0	*	58	0	*	5		
327410 327993	Lime Mineral Wool	26	0	0	26 0	0	0	*	0.9 0.0	
331	Primary Metals	306	293	1	10	0	1	2		
331111	Iron and Steel Mills	296	293	0	W	0	0	W	1.7	
331112	Electrometallurgical Ferroalloy Products	1	0	0	0	0	1	0		
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0		
3313 331312	Alumina and Aluminum Primary Aluminum	W	0	0	W W	0	0	0	1.0 0.9	
3314	Nonferrous Metals, except Aluminum	W	0	*	W	0	0	w	0.9	
3315	Foundries	*	0	*	0	0	0	*	0.9	
331511	Iron Foundries	*	0	*	0	0	0	0		
331521	Aluminum Die-Casting Foundries	*	0	0	0	0	0	*	0.9	
331524 332	Aluminum Foundries, except Die-Casting Fabricated Metal Products	0 Q	0	0	0	0	0 Q	0		
333	Machinery	Q	0	Q	0	0	0	*	0.0	
334	Computer and Electronic Products	0	0	0	0	0	0	0	0.0	
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0.0	

Table 3.5 Selected Byproducts in Fuel Consumption, 2002;

Level: National Data and Regional Totals; Row: NAICS Codes; Column: Energy Sources;

Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Blast Furnace/Coke Oven Gases	Waste Gas	Petroleum Coke	Pulping Liquor or Black Liquor	Wood Chips, Bark	Waste Oils/Tars and Waste Materials	RSE Row Factors	
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	*	1.3	
336	Transportation Equipment	3	0	1	2		0	*	13.7	
336112	Light Trucks and Utility Vehicles		0		0	ŭ	0	*	0.9	
337 339	Furniture and Related Products Miscellaneous	10 Q	0	0	0	-	8 Q	Q *		
333	Total	4,267	297	1,887	679	-	542	41	1.7	
Northeast Census Region										
	RSE Column Factors:	1.0	0.8	1.2	0.9	0.8	1.2	1.2		
	Total	325	62	91	75	54	40	3	2.1	
Midwest Census Region										
	RSE Column Factors:	1.1	0.7	1.6	1.2	0.7	1.1	0.9		
	Total	684	195	244	145	50	41	10	2.6	
South Census Region										
	RSE Column Factors:	1.1	0.8	0.9	1.2	0.9	1.1	1.1		
	Total	2,559	41	1,179	343	608	364	24	1.8	
West Census Region										
	RSE Column Factors:	1.1	0.0	1.2	0.8	0.8	1.0	1.3		
	Total	699	0	373	117	107	97	4	3.9	

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

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation,

regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.

During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

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.