

Table ERC.3 Energy Consumption by Economic Sector

Source: International Energy Agency

	Energy Consumption by Economic Sector (% of total consumption)															
	Industry				Transportation						Commercial and					
	All Industries		Iron and Steel		Total		Air		Road		Agriculture		Public Services		Residential	
	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997
WORLD	38.2	32.2	2.7	4.1	24.7	24.8	3.1	3.1	18.8	19.6	3.8	2.8	8.3	7.4	19.1	27.1
ASIA (EXCL. MIDDLE EAST)	48.6	37.4	7.7	5.6	16.4	15.9	1.5	1.8	11.9	12.3	4.0	3.0	5.1	5.4	21.2	33.6
Armenia	X	27.1	X	0.0	X	7.2	X	2.7	X	2.8	X	4.7	X	3.7	X	34.9
Azerbaijan	X	39.0	X	0.0	X	15.3	X	6.7	X	7.4	X	11.5	X	1.1	X	24.6
Bangladesh	X	36.2	X	0.0	X	5.1	X	0.5	X	3.3	X	2.1	X	0.5	X	5.1
Bhutan	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cambodia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
China	X	42.5	X	8.1	X	8.8	X	0.5	X	5.7	X	3.4	X	4.4	X	36.8
Georgia	X	20.6	X	3.5	X	22.3	X	2.2	X	19.1	X	3.4	X	12.6	X	17.6
India	X	29.7	X	3.4	X	11.7	X	0.7	X	10.1	X	2.4	X	0.7	X	54.2
Indonesia	11.7	22.8	0.8	2.5	12.9	18.9	1.1	1.7	11.6	15.4	1.1	1.8	0.5	1.1	67.9	54.1
Japan	42.8	39.8	8.1	6.9	24.2	27.0	2.3	3.1	19.4	22.1	3.5	3.2	11.0	12.2	14.1	14.1
Kazakhstan	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Korea, Dem People's Rep	81.2	83.9	0.0	0.0	8.2	6.1	0.0	0.0	8.2	6.1	X	X	0.0	0.0	0.9	0.7
Korea, Rep	37.9	44.9	6.4	7.1	18.8	23.2	1.5	2.3	13.8	17.3	2.4	2.8	8.5	16.6	28.3	8.5
Kyrgyzstan	82.0	35.3	0.0	0.0	0.5	8.2	0.0	2.8	0.0	5.0	8.4	8.7	0.0	0.0	2.9	5.6
Lao People's Dem Rep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Malaysia	38.3	40.4	0.0	0.5	35.9	33.4	4.0	5.5	31.9	27.9	X	1.9	3.7	4.3	17.8	13.4
Mongolia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Myanmar	X	11.0	X	0.0	X	7.2	X	0.5	X	6.6	X	0.1	X	0.4	X	81.1
Nepal	2.1	4.2	0.0	0.0	1.9	2.8	0.4	0.4	1.5	2.4	0.1	0.2	0.9	1.2	94.9	91.4
Pakistan	X	26.1	X	0.2	X	16.6	X	1.3	X	14.8	X	1.9	X	2.3	X	52.4
Philippines	19.6	39.3	1.7	2.3	12.2	19.7	2.6	4.5	8.3	13.0	5.1	8.6	2.5	3.7	48.9	23.6
Singapore	34.8	36.7	0.6	0.8	46.5	47.0	24.3	28.2	22.2	18.6	0.0	0.0	6.1	6.6	4.7	4.6
Sri Lanka	13.5	20.0	0.0	0.0	16.2	20.6	2.4	4.5	13.3	15.4	0.0	0.2	1.8	3.3	67.7	55.3
Tajikistan	57.2	19.6	0.0	0.0	0.6	37.8	0.0	0.2	0.0	37.3	19.4	13.0	0.0	0.0	6.1	5.8
Thailand	26.8	33.1	1.0	1.2	33.4	38.9	5.9	5.2	25.6	33.3	6.7	2.8	2.9	4.6	29.0	19.1
Turkmenistan	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Uzbekistan	X	18.5	X	0.0	X	11.5	X	0.9	X	6.0	X	7.5	X	8.9	X	42.5
Viet Nam	X	19.0	X	0.0	X	13.6	X	0.8	X	12.3	X	1.2	X	0.0	X	64.9
EUROPE	37.9	32.9	4.7	4.9	20.9	23.0	2.1	2.8	16.5	17.3	3.1	4.0	8.0	7.3	23.1	27.1
Albania	31.8	13.5	1.3	0.0	14.0	41.2	0.0	0.0	14.0	41.2	X	0.6	0.0	2.8	17.3	31.1
Austria	27.1	23.9	6.3	5.6	24.2	29.0	1.2	2.4	21.5	24.8	2.8	3.9	3.7	3.4	32.3	29.8
Belarus	X	36.9	X	0.8	X	10.8	X	0.0	X	7.8	X	5.8	X	1.3	X	35.4
Belgium	36.2	36.9	8.7	7.6	21.6	23.3	1.9	3.4	18.6	18.4	1.4	2.6	9.4	9.4	28.2	24.7
Bosnia and Herzegovina	X	7.8	X	3.1	X	48.3	X	5.1	X	30.5	X	0.0	X	0.0	X	20.8
Bulgaria	51.6	58.9	3.9	9.1	9.4	10.4	2.0	1.9	6.7	7.5	1.3	3.3	2.3	1.6	13.2	21.6
Croatia	X	33.4	X	1.4	X	24.3	X	1.5	X	20.8	X	3.5	X	7.8	X	27.8
Czech Rep	53.1	48.5	8.7	10.4	6.5	14.5	0.6	0.6	5.0	12.6	4.2	2.2	5.8	7.5	25.0	22.3
Denmark	18.4	19.3	1.0	0.7	31.3	31.0	5.2	5.4	21.4	23.6	4.7	6.5	9.9	11.7	31.5	28.7
Estonia	X	30.1	X	0.0	X	18.7	X	0.8	X	16.1	X	2.6	X	8.1	X	38.6
Finland	42.3	45.0	4.1	4.6	18.0	18.2	1.4	2.0	15.7	15.3	4.0	3.0	3.6	6.0	24.5	21.9
France	30.6	28.1	3.8	3.3	27.2	29.7	2.3	3.3	23.5	25.1	2.2	2.0	13.1	13.1	24.1	23.2
Germany	33.7	29.6	5.0	4.1	20.7	26.6	1.9	2.7	17.7	22.8	1.2	1.1	12.1	10.4	28.2	28.3
Greece	28.6	24.6	1.3	0.6	36.9	38.3	8.4	6.9	25.8	27.9	7.1	5.9	3.5	6.0	19.5	22.9
Hungary	39.3	28.3	7.8	4.0	13.5	16.4	0.7	1.1	10.9	14.2	5.9	4.1	16.7	17.4	17.4	30.1
Iceland	25.5	27.4	6.0	5.5	16.3	15.9	4.0	5.6	10.9	9.6	15.4	17.8	3.2	4.1	36.4	29.3
Ireland	34.9	26.4	0.8	0.5	23.9	31.2	4.4	4.8	18.9	25.1	2.7	2.7	8.4	14.0	28.1	23.6
Italy	34.0	32.7	5.2	4.2	29.2	32.4	1.9	2.5	25.8	28.7	2.4	2.6	2.5	3.7	28.1	25.4
Latvia	X	26.3	X	3.9	X	21.4	X	0.9	X	16.1	X	3.0	X	10.3	X	38.8
Lithuania	X	28.5	X	0.1	X	24.5	X	0.6	X	21.8	X	3.5	X	11.0	X	29.2
Macedonia, FYR	X	31.0	X	10.6	X	30.6	X	1.8	X	26.7	X	4.4	X	4.1	X	27.4
Moldova, Rep	X	20.3	X	0.0	X	15.7	X	0.7	X	11.5	X	9.2	X	20.6	X	28.4
Netherlands	38.7	32.9	2.0	3.2	18.4	23.8	2.9	5.4	14.2	16.9	5.8	7.1	2.8	4.8	21.2	18.3
Norway	41.9	37.4	7.1	6.0	21.7	24.3	3.0	3.4	14.0	16.3	1.5	3.8	10.6	11.0	20.1	19.6
Poland	43.9	36.9	9.4	6.4	11.0	14.7	0.4	0.7	8.3	13.0	3.7	7.2	8.7	7.4	22.6	31.5
Portugal	45.1	38.3	1.7	1.2	29.7	33.9	5.0	3.9	23.4	29.1	4.0	3.4	5.4	6.5	12.6	12.5
Romania	55.2	44.0	9.8	10.3	4.2	14.4	0.0	0.5	3.8	11.1	2.2	3.1	0.7	0.0	20.4	32.4
Russian Federation	X	34.9	X	7.7	X	13.5	X	1.9	X	4.7	X	8.1	X	2.0	X	32.8
Slovakia	58.9	48.2	2.0	11.1	7.4	10.1	0.0	0.3	6.7	9.1	5.3	3.2	10.0	14.0	8.8	19.0
Slovenia	X	28.4	X	4.0	X	33.7	X	0.4	X	32.7	X	0.0	X	14.9	X	23.0
Spain	38.5	32.8	5.9	4.0	34.5	38.1	4.4	5.0	26.0	29.9	5.3	2.9	6.2	6.7	11.6	14.1
Sweden	37.4	38.2	3.5	3.1	21.5	22.0	2.1	2.5	17.7	18.4	2.0	1.5	13.0	13.5	23.6	22.5
Switzerland	19.7	18.6	0.0	0.0	29.3	33.3	5.4	7.2	22.7	25.0	1.0	1.3	16.8	16.5	28.9	27.9
Ukraine	X	42.4	X	4.2	X	7.6	X	0.8	X	3.9	X	4.2	X	10.8	X	30.5
United Kingdom	28.0	25.6	3.4	2.9	28.4	32.2	4.3	5.7	22.6	25.0	0.9	0.8	9.4	9.1	27.5	26.2
Yugoslavia	X	33.8	X	0.3	X	12.2	X	1.1	X	11.0	X	0.2	X	0.3	X	16.2
MIDDLE EAST & N. AFRICA	31.7	30.4	1.1	1.0	31.2	25.7	3.7	3.1	27.0	22.1	2.7	2.5	2.7	3.5	17.5	21.2
Afghanistan	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Algeria	21.2	20.6	4.3	2.3	39.1	18.7	3.3	2.2	34.9	12.2	0.3	0.0	1.5	0.0	23.0	29.2
Egypt	49.6	47.8	0.7	0.5	19.8	20.6	2.9	3.6	16.9	16.9	0.5	0.6	0.0	0.0	23.2	22.9
Iran, Islamic Rep	37.7	31.4	0.1	0.1	24.6	23.2	1.2	0.8	23.5	22.4	7.3	5.5	7.0	7.6	12.9	28.0
Iraq	28.2	28.6	0.0	0.0	47.1	44.4	4.8	2.2	42.3	42.3	0.0	0.0	0.0	0.0	16.1	11.2
Israel	29.9	26.5	0.8	0.7	36.8	32.2	8.4	7.4	28.0	24.1	1.0	1.1	4.7	4.6	14.8	16.2
Jordan	22.8	19.3	0.1	0.0	51.6	41.3	8.5	10.1	43.2	31.2	1.6	2.9	1.4	2.2	15.1	18.1
Kuwait	53.5	27.0	0.0	0.0	27.9	38.3	4.4	7.0	23.							

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Source: International Energy Agency

	Energy Consumption by Economic Sector (% of total consumption)																	
	Industry				Transportation						Commercial and				Residential			
	All Industries		Iron and Steel		Total		Air		Road		Agriculture		Public Services		Residential			
	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997	1987	1997		
SUB-SAHARAN AFRICA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Angola	X	11.6	X	0.0	X	12.3	X	6.1	X	6.2	X	X	X	0.0	X	75.6		
Benin	X	17.1	X	0.0	X	12.6	X	2.4	X	10.1	X	X	X	0.0	X	70.3		
Botswana	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Burkina Faso	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Burundi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Cameroon	X	17.0	X	0.0	X	11.6	X	1.0	X	10.6	X	X	X	0.5	X	69.7		
Central African Rep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Chad	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Congo	X	14.2	X	0.0	X	18.4	X	6.3	X	12.1	X	X	X	0.0	X	65.7		
Congo, Dem Rep	X	21.8	X	0.1	X	5.4	X	1.2	X	4.2	X	X	X	0.0	X	70.9		
Côte d'Ivoire	X	7.0	X	0.0	X	16.0	X	3.1	X	12.5	X	1.2	X	12.1	X	62.0		
Equatorial Guinea	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Eritrea	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Ethiopia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Gabon	X	23.2	X	0.0	X	19.6	X	6.7	X	11.0	X	X	X	0.9	X	51.5		
Gambia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Ghana	16.0	14.1	0.0	0.0	11.0	13.2	1.4	1.2	9.0	11.4	0.7	1.0	0.5	0.7	69.8	69.9		
Guinea	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Guinea-Bissau	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Kenya	X	11.4	X	0.0	X	12.6	X	4.5	X	7.7	X	6.5	X	0.7	X	67.7		
Lesotho	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Liberia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Madagascar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Malawi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Mali	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Mauritania	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Mozambique	X	7.8	X	0.0	X	1.5	X	0.4	X	1.1	X	0.6	X	3.4	X	85.0		
Namibia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Niger	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Nigeria	X	10.9	X	0.1	X	6.7	X	0.7	X	5.9	X	X	X	0.3	X	79.7		
Rwanda	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Senegal	X	17.0	X	0.0	X	24.0	X	10.0	X	12.6	X	2.3	X	0.6	X	55.3		
Sierra Leone	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Somalia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
South Africa	48.4	36.6	17.6	7.8	21.0	23.5	1.3	2.5	17.9	19.2	2.6	3.4	4.1	5.2	19.3	21.3		
Sudan	X	7.4	X	0.0	X	17.8	X	1.0	X	16.9	X	0.1	X	2.0	X	70.9		
Tanzania, United Rep	X	11.7	X	0.0	X	1.7	X	0.3	X	1.4	X	3.2	X	0.3	X	79.1		
Togo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Uganda	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Zambia	X	23.6	X	0.1	X	5.1	X	0.9	X	4.2	X	0.7	X	2.0	X	66.6		
Zimbabwe	X	12.2	X	2.0	X	10.0	X	1.5	X	8.3	X	9.2	X	3.6	X	61.8		
NORTH AMERICA	30.1	26.3	1.4	1.9	35.1	38.1	5.0	5.2	27.9	30.3	1.3	1.2	11.6	12.6	16.0	17.3		
Canada	37.9	36.3	3.2	2.5	26.9	27.8	2.7	2.7	20.8	20.2	1.8	2.3	12.7	13.5	16.9	16.6		
United States	29.2	25.0	1.1	1.8	36.0	39.5	5.2	5.6	28.7	31.7	1.2	1.1	11.4	12.5	15.9	17.3		
C. AMERICA & CARIBBEAN	41.1	39.4	4.2	4.8	30.0	31.8	2.0	2.5	26.3	28.3	2.9	2.4	2.8	3.4	20.6	21.3		
Belize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Costa Rica	24.4	24.0	0.0	0.0	29.0	49.1	1.7	5.3	10.7	42.5	X	3.8	0.4	7.6	45.3	14.4		
Cuba	49.7	70.9	2.0	0.4	27.7	10.5	2.1	2.9	21.8	7.5	6.2	3.1	2.5	2.1	10.0	7.5		
Dominican Rep	28.8	20.5	0.0	0.0	36.3	29.9	3.6	1.7	24.4	14.0	0.6	1.0	0.0	0.0	34.4	46.3		
El Salvador	22.0	20.5	0.0	0.0	19.0	24.0	1.1	1.6	17.9	22.4	0.1	X	2.3	3.0	56.2	51.6		
Guatemala	10.6	13.9	0.0	0.0	14.8	21.2	1.3	1.0	13.6	20.1	0.9	0.7	2.1	4.0	70.4	58.8		
Haiti	14.7	11.7	0.0	0.0	10.7	15.9	1.7	1.5	4.2	6.8	X	X	1.3	4.4	73.3	67.3		
Honduras	23.8	27.3	0.0	0.0	15.1	17.4	1.3	0.8	13.8	16.5	0.1	0.2	4.3	4.9	56.7	50.3		
Jamaica	43.3	26.1	0.0	0.0	33.6	41.7	10.5	12.1	23.1	21.0	3.1	11.9	0.2	6.4	13.5	13.2		
Mexico	43.0	38.6	5.4	6.4	32.0	36.4	1.9	2.5	29.0	33.3	3.0	2.7	3.1	3.6	16.1	17.6		
Nicaragua	19.1	11.4	0.0	0.0	21.0	23.2	2.4	1.6	18.0	20.1	2.6	1.0	2.3	6.1	52.8	56.7		
Panama	26.9	20.5	0.0	0.0	29.3	35.3	0.1	0.2	29.2	34.7	X	X	1.7	2.4	41.6	39.3		
Trinidad and Tobago	X	85.6	X	7.4	X	10.9	X	1.3	X	9.6	X	X	X	1.1	X	2.1		
SOUTH AMERICA	37.8	37.3	5.7	5.2	29.5	32.7	2.3	2.4	26.1	29.0	4.9	4.8	3.2	5.0	20.9	16.8		
Argentina	31.6	29.2	0.4	0.5	32.1	33.8	2.3	3.1	29.6	30.4	5.8	6.7	2.2	6.6	23.8	19.8		
Bolivia	12.9	28.7	0.0	0.0	38.0	34.9	4.6	5.0	32.8	28.6	0.7	1.6	0.0	1.6	47.9	32.7		
Brazil	42.4	41.4	8.3	7.1	27.3	32.3	2.2	2.0	23.8	28.7	5.9	5.2	3.7	4.8	17.5	13.5		
Chile	36.8	41.8	3.5	2.1	29.2	30.0	2.7	3.2	24.5	24.3	X	1.3	1.8	0.8	30.8	25.4		
Colombia	28.3	29.6	1.4	1.6	29.6	33.0	2.5	2.7	26.8	29.4	5.9	6.7	3.6	4.2	26.6	18.1		
Ecuador	21.6	18.5	0.0	0.0	39.6	42.4	3.3	3.3	26.5	30.6	5.6	5.4	2.4	6.6	24.9	24.8		
Guyana	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Paraguay	30.0	38.0	0.0	0.0	19.0	25.5	1.3	0.1	17.2	24.9	X	X	0.9	1.7	49.6	34.5		
Peru	20.8	22.5	0.5	4.4	25.8	27.2	2.8	3.8	21.6	23.0	7.5	6.2	2.2	3.0	42.4	40.0		
Suriname	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Uruguay	28.0	21.0	0.0	0.0	23.9	33.3	0.8	0.3	21.8	33.0	6.6	8.1	5.7	7.5	32.1	26.8		
Venezuela	46.1	44.2	10.3	9.8	35.4	34.7	2.0	2.3	33.1	32.4	0.1	1.7	3.1	7.6	9.4	7.8		
OCEANIA	35.5	35.5	4.5	3.9	39.1	39.0	4.6	6.3	30.9	29.2	2.6	2.3	6.0	6.7	13.2	12.4		
Australia	35.1	34.3	4.1	3.6	39.8	39.5	4.3	6.2	32.4	31.2	2.5	2.3	5.6	6.7	13.3	12.8		
Fiji	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
New Zealand	37.6	41.7	6.9	5.9	35.0	36.4	6.2	6.9	22.0	18.4	3.1	2.5	8.3	6.7	12.4	10.7		
Papua New Guinea	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Solomon Islands	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
DEVELOPED	34.8	30.7	3.6	3.8	27.9	29.8	3.5	3.9	22.2	23.3	2.3	2.8	9.7	9.8	18.6	21.4		
DEVELOPING	44.4	34.9	6.1	4.5	21.2	17.8	1.9	1.8	17.0	14.5	3.8	2.9	3.2	3.9	22.2	34.4		

Notes: "0.0" is either zero or less than one-half the unit of measure.

Table ERC.3 Energy Consumption by Economic Sector

Source: International Energy Agency (IEA), Energy Balances of Organisation for Economic Co-operation and Development (OECD) Countries, 1960–1997, on diskette (OECD, Paris, 1999) and Energy Balances of Non-OECD Countries, 1971–1997, on diskette (OECD, Paris, 1999).

Data for OECD and Economic Commission for Europe countries were compiled from information provided in questionnaires filled out by each country. Data from other large- and medium-sized energy consumers come mostly from individual country information. Data for the remaining countries were gathered from a variety of international organizations.

The World Resources Institute calculated the amount of total final energy consumption (TFC) used by each sector as a percentage of TFC for each country. TFC does not include distribution losses and fuels that are transformed to another form (e.g., fuels used for electricity generation, crude oil transformed into oil products in refineries, etc.).

Industry sector includes energy consumption by the iron and steel industry, chemical industry, nonferrous metals basic industries, nonmetallic mineral products (glass, ceramic, cement, etc.), transport equipment, machinery, mining and quarrying, food and tobacco, paper, pulp and print, wood and wood products, construction, textile and leather, and any nonspecified industry. Iron and steel consumption is the energy consumed by the iron and steel industry as a percentage of the total energy consumed by the country.

Transportation sector includes all fuel for air, road, and water transport except fuel used for international marine bunkers and for ocean, coastal, and inland fishing. Air transportation includes both international and domestic civil aviation. Road transportation includes all human and cargo transport along national road networks.

Agriculture sector refers to all agricultural and forestry activity, including ocean, coastal, and inland fishing.

Commercial and public services refer to service sectors such as stores, repair shops, and restaurants. Residential sector includes household energy use.

IEA reports that it can be difficult to distinguish accurately between the agriculture, commercial, and public services sectors and that a figure for "total energy use" is more accurate than totals for the individual sectors.