



# ENERGY FUELS

**Figure 9-1.** Composition of Energy Consumed in the United States

<b>Commodity</b>	<b>Percentage of Total U.S. Energy Consumption</b>
Petroleum	40%
Natural Gas	22%
Coal	23%
Nuclear	8%
Renewable	7%

*SOURCE: Energy Information Administration, Annual Energy Review 2006*

# OPEC



**Figure 9-2. Typical Yields from a Barrel of Crude Oil**

<b>Commodity</b>	<b>Percentage of Total Yield</b>
Gasoline	44%
Diesel Fuel / Heating Oil	22%
Miscellaneous / Other	17%
Jet Fuel	9%
Heavy Fuel Oil	4%
Liquid Petroleum Gas	4%

**Figure 9-3. Countries with the Largest Crude Oil Reserves**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Reserves</b>
1	Saudi Arabia	19.8%
2	Iran	10.0%
3	Iraq	8.5%
4	United Arab Emirates	7.4%
5	Kuwait	7.3%
6	Venezuela	5.7%
7	Russia	5.6%
8	Libya	3.2%
9	Nigeria	2.7%
10	Kazakhstan	2.0%

*SOURCE: CIA World Factbook*

**Figure 9-4. Countries with the Largest Crude Oil Production**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Production</b>
1	Saudi Arabia	11.8%
2	Russia	11.7%
3	United States	9.5%
4	Iran	5.0%
5	China	4.5%
6	Mexico	4.3%
7	Norway	4.0%
8	Canada	3.9%
9	Venezuela	3.8%
10	United Arab Emirates	3.2%

*SOURCE: CIA World Factbook*

**Figure 9-5. Countries with the Largest Crude Oil Consumption**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Consumption</b>
1	United States	25.2%
2	China	7.9%
3	Japan	6.8%
4	Germany	3.2%
5	Russia	3.0%
6	India	3.0%
7	Canada	2.8%
8	South Korea	2.6%
9	Brazil	2.6%
10	France	2.4%

*SOURCE: CIA World Factbook*

**Figure 9-6. Top Crude Oil Exporting Countries**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Exports</b>
1	Saudia Arabia	27.0%
2	Russia	20.5%
3	Norway	9.0%
4	Iran	7.8%
5	Venezuela	7.1%
6	United Arab Emirates	7.1%
7	Kuwait	6.8%
8	Nigeria	6.5%
9	Mexico	5.6%
10	Algeria	5.0%

*SOURCE: CIA World Factbook*

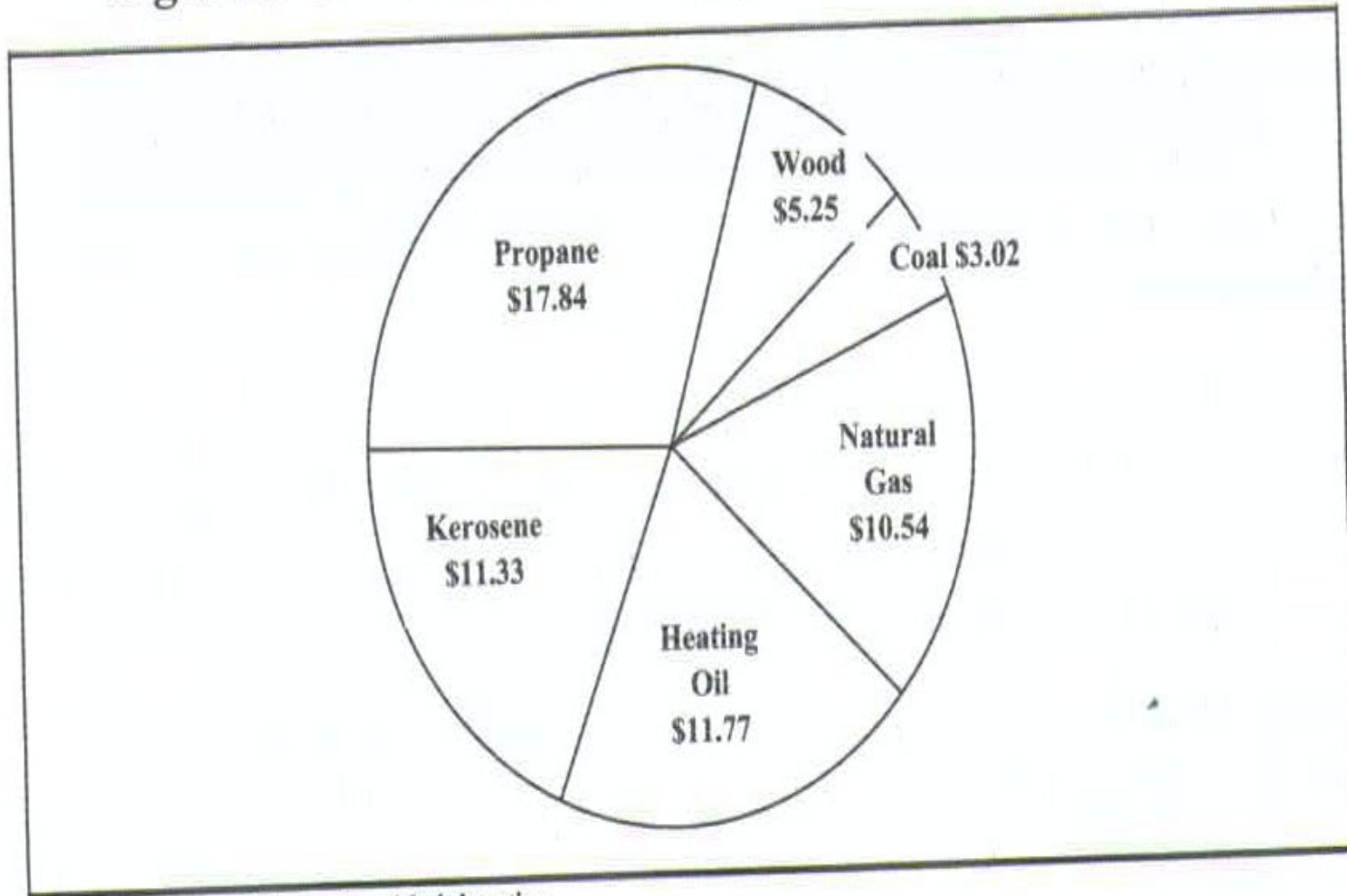


**Figure 9-7. Top Crude Oil Importing Countries**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Imports</b>
1	United States	37.5%
2	Japan	16.8%
3	China	9.2%
4	Germany	7.9%
5	South Korea	6.7%
6	France	6.3%
7	Italy	5.4%
8	Spain	5.1%
9	India	4.8%
10	Thailand	3.2%

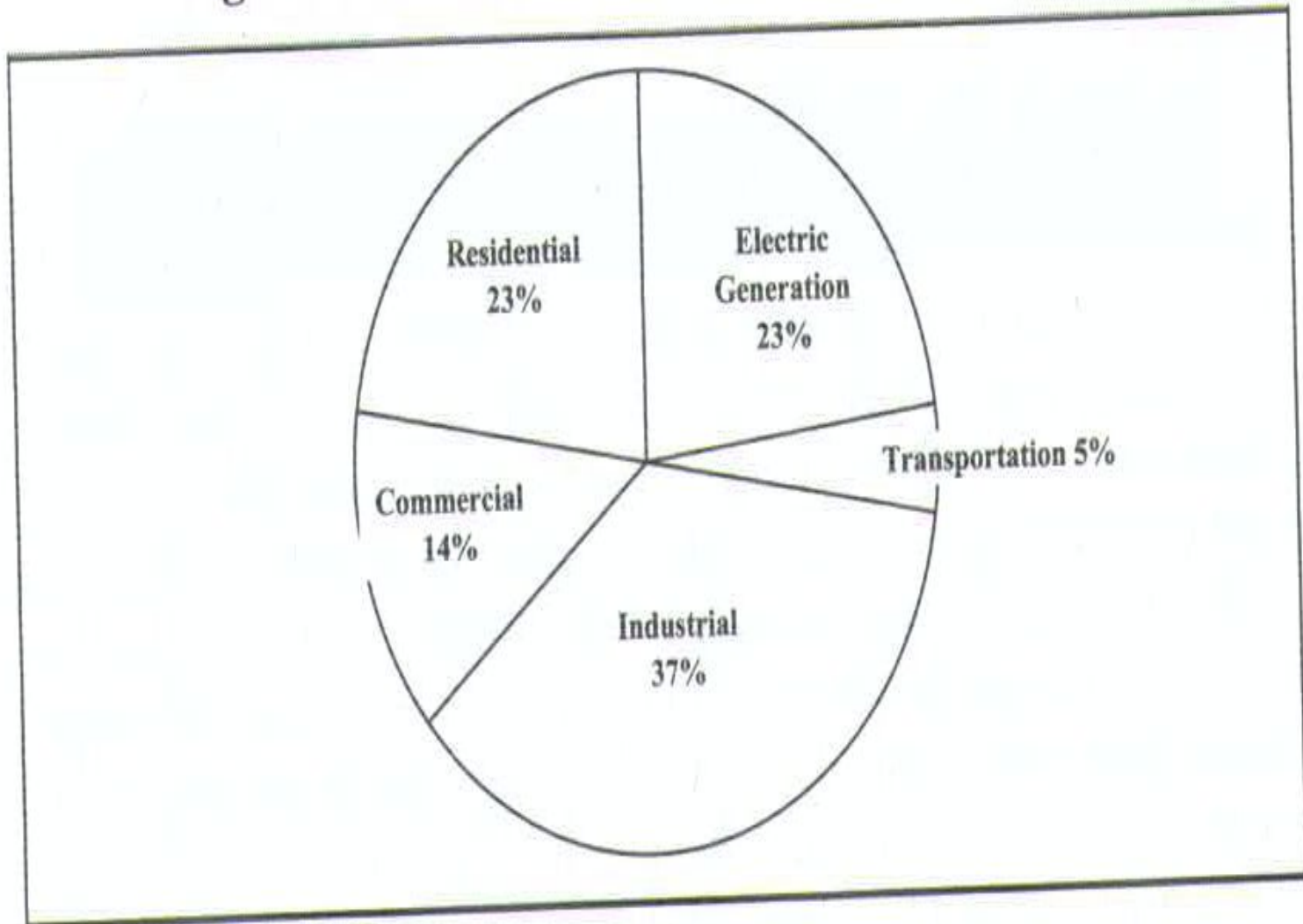
*SOURCE: CIA World Factbook*

**Figure 9-8.** Residential Cost per Unit of Energy (Btu)



*SOURCE: Energy Information Administration*

**Figure 9-9.** Uses of Natural Gas by Consumer



*SOURCE: U.S. Department of Energy*

**Figure 9-10.** Natural Gas Reserves by Country

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Reserves</b>
1	Russia	27.5%
2	Iran	15.4%
3	Qatar	14.9%
4	Saudi Arabia	3.9%
5	United Arab Emirates	3.5%
6	United States	3.2%
7	Nigeria	2.9%
8	Algeria	2.6%
9	Venezuela	2.5%
10	Iraq	1.8%

*SOURCE: CIA World Factbook*

**Figure 9-11. Natural Gas Consumption by Country**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Consumption</b>
1	United States	22.6%
2	Russia	15.8%
3	Germany	3.6%
4	United Kingdom	3.5%
5	Canada	3.4%
6	Iran	3.0%
7	Japan	3.0%
8	Italy	2.9%
9	Ukraine	2.6%
10	Saudi Arabia	2.3%

*SOURCE: CIA World Factbook*

**Figure 9-12. Top Natural Gas Exporting Countries**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Exports</b>
1	Russia	26.7%
2	Canada	12.8%
3	Norway	9.3%
4	Algeria	7.5%
5	Netherlands	6.6%
6	Turkmenistan	5.2%
7	Indonesia	4.5%
8	Malaysia	3.6%
9	United States	3.0%
10	Qatar	3.0%

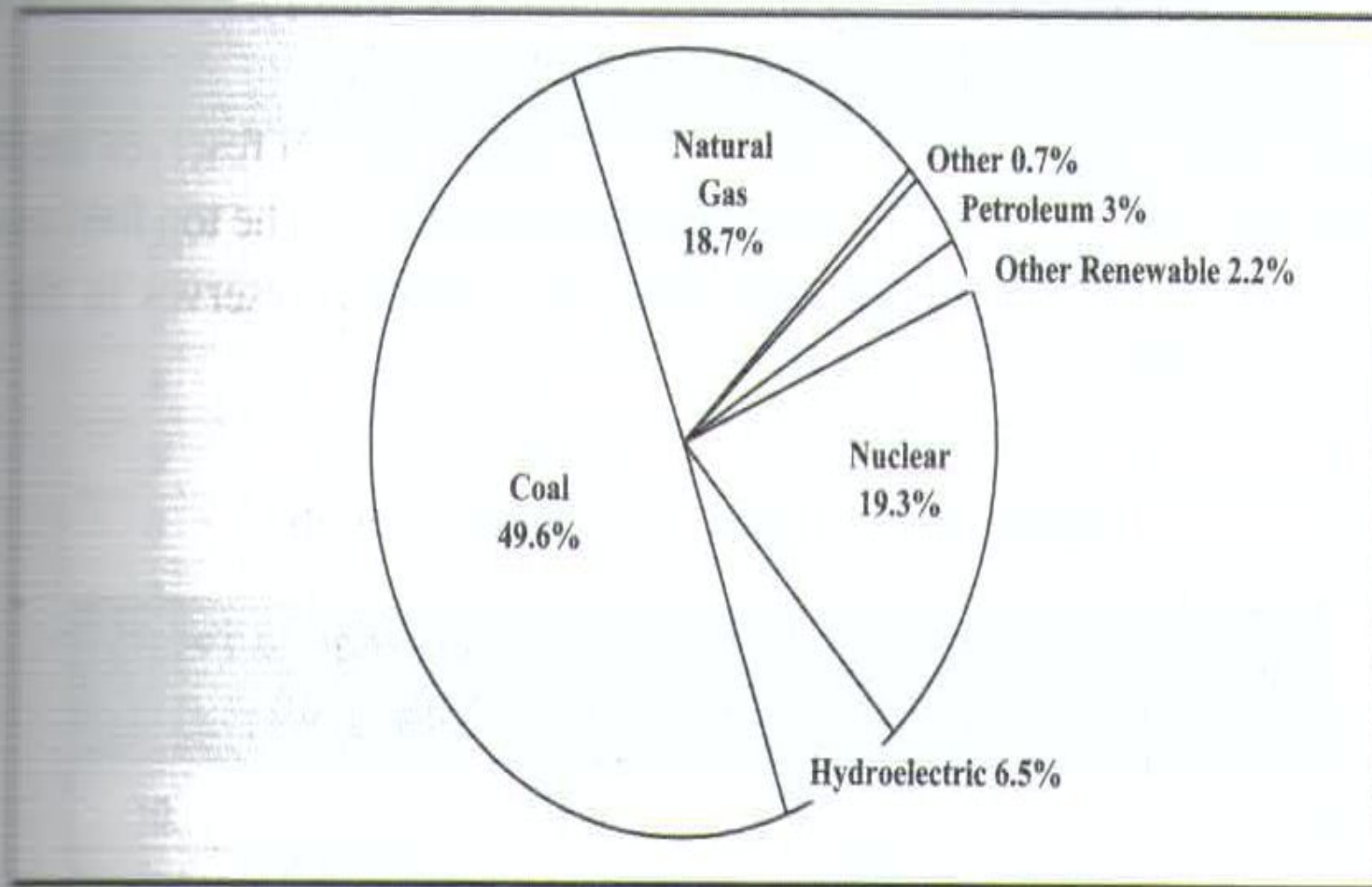
*SOURCE: CIA World Factbook*

**Figure 9-13.** Top Natural Gas Importing Countries

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Imports</b>
1	United States	14.8%
2	Germany	11.0%
3	Japan	9.9%
4	Italy	8.3%
5	Ukraine	7.0%
6	France	5.5%
7	Russia	4.5%
8	South Korea	3.5%
9	Spain	3.3%
10	Turkey	2.7%

*SOURCE: CIA World Factbook*

Figure 9-14. Energy Sources for Electric Power Generation in the U.S.



SOURCE: Energy Information Administration, *Electric Power Monthly*, March 2007



**Figure 9-15. Coal Reserves by Country**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Reserves</b>
1	United States	27.1%
2	Russia	17.3%
3	China	12.6%
4	India	10.2%
5	Australia	8.6%
6	South Africa	5.4%
7	Ukraine	3.8%
8	Kazakhstan	3.4%
9	Poland	1.5%
10	Brazil	1.1%

*SOURCE: CIA World Factbook*

**Figure 9-16. Coal Production by Country**

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Global Production</b>
1	China	36.2%
2	United States	20.8%
3	Australia	7.3%
4	India	6.9%
5	South Africa	5.0%
6	Russia	4.7%
7	Indonesia	3.0%
8	Poland	2.6%
9	Germany	2.0%
10	Kazakhstan	1.6%

*SOURCE: CIA World Factbook*

**Figure 9-17. U.S. Electric Power Production by Commodity**

<b>Commodity</b>	<b>Percentage of Total Production</b>
Coal	50%
Nuclear	19%
Natural Gas	19%
Hydroelectric	7%
Petroleum	3%
Other Renewables	2%
Other Fuels	1%

**Figure 9-18.** Nuclear Power by Country

<b>Rank</b>	<b>Country</b>	<b>Percentage of Total Power</b>
1	Lithuania	81%
2	France	79%
3	Belgium	56%
4	Slovakia	56%
5	Sweden	51%
6	Ukraine	48%
7	Switzerland	42%
8	Bulgaria	41%
9	Armenia	37%
10	Slovenia	36%

*SOURCE: World Development Indicators database*

Thank You

