

Table 4. Energy Consumption by Sector and Source (quadrillion Btu, unless otherwise noted)  
 West North Central

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
<b>Residential</b>																											
Liquefied Petroleum Gases	0.068	0.073	0.080	0.075	0.072	0.068	0.067	0.065	0.063	0.062	0.061	0.060	0.059	0.058	0.058	0.057	0.057	0.056	0.056	0.056	0.055	0.055	0.055	0.055	0.054	0.054	0.054
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Distillate Fuel Oil	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003
Liquid Fuels Subtotal	0.073	0.079	0.087	0.082	0.078	0.074	0.073	0.070	0.069	0.067	0.066	0.065	0.064	0.063	0.063	0.062	0.061	0.061	0.061	0.060	0.060	0.059	0.059	0.058	0.058	0.058	
Natural Gas	0.398	0.435	0.478	0.455	0.451	0.432	0.431	0.430	0.429	0.429	0.430	0.427	0.426	0.424	0.424	0.421	0.419	0.420	0.421	0.420	0.419	0.419	0.418	0.416	0.413	0.410	0.410
Coal	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/	0.037	0.043	0.053	0.048	0.042	0.039	0.040	0.041	0.042	0.043	0.044	0.044	0.045	0.045	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048
Electricity	0.341	0.356	0.351	0.352	0.356	0.347	0.347	0.347	0.348	0.350	0.351	0.351	0.354	0.358	0.361	0.364	0.368	0.372	0.378	0.382	0.388	0.393	0.398	0.401	0.404	0.404	0.404
Delivered Energy	0.851	0.916	0.970	0.939	0.928	0.899	0.898	0.890	0.888	0.888	0.891	0.889	0.890	0.892	0.895	0.894	0.896	0.901	0.908	0.911	0.915	0.918	0.922	0.921	0.922	0.922	0.922
Electricity Related Losses	0.833	0.858	0.850	0.885	0.918	0.944	0.956	0.942	0.933	0.947	0.948	0.944	0.943	0.944	0.943	0.943	0.941	0.941	0.943	0.933	0.942	0.943	0.948	0.955	0.960	0.960	
Total	1.684	1.774	1.821	1.824	1.846	1.844	1.853	1.832	1.821	1.836	1.839	1.833	1.833	1.836	1.838	1.837	1.837	1.842	1.851	1.844	1.857	1.861	1.871	1.876	1.882	1.882	
<b>Commercial</b>																											
Liquefied Petroleum Gases	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Motor Gasoline 2/	0.006	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Distillate Fuel Oil	0.014	0.014	0.014	0.013	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Residual Fuel Oil	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Liquid Fuels Subtotal	0.036	0.037	0.036	0.035	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
Natural Gas	0.270	0.288	0.315	0.305	0.300	0.296	0.296	0.298	0.300	0.301	0.302	0.302	0.302	0.302	0.301	0.300	0.300	0.302	0.305	0.307	0.309	0.309	0.309	0.309	0.309	0.308	0.308
Coal	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Renewable Energy 3/	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Electricity	0.326	0.339	0.334	0.332	0.343	0.345	0.348	0.351	0.355	0.360	0.365	0.371	0.376	0.381	0.386	0.392	0.397	0.403	0.408	0.415	0.421	0.427	0.433	0.438	0.444	0.444	
Delivered Energy	0.652	0.683	0.705	0.690	0.698	0.697	0.699	0.704	0.710	0.716	0.722	0.727	0.733	0.738	0.742	0.747	0.753	0.761	0.769	0.778	0.786	0.792	0.798	0.803	0.809	0.809	
Electricity Related Losses	0.796	0.818	0.810	0.834	0.885	0.923	0.942	0.953	0.956	0.982	0.990	0.995	1.000	1.006	1.008	1.015	1.016	1.017	1.019	1.012	1.023	1.026	1.032	1.045	1.054	1.054	
Total	1.448	1.501	1.514	1.523	1.584	1.620	1.641	1.657	1.666	1.698	1.712	1.723	1.732	1.744	1.751	1.762	1.769	1.778	1.788	1.790	1.809	1.818	1.830	1.849	1.863	1.863	
<b>Industrial 4/</b>																											
Liquefied Petroleum Gases	0.109	0.112	0.105	0.109	0.099	0.102	0.103	0.105	0.104	0.102	0.100	0.098	0.097	0.094	0.095	0.092	0.092	-0.092	0.095	0.094	0.094	0.093	0.092	0.091	0.084	0.084	
Motor Gasoline 2/	0.047	0.047	0.046	0.046	0.045	0.047	0.047	0.047	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.048	0.048	
Distillate Fuel Oil	0.182	0.189	0.179	0.177	0.177	0.183	0.184	0.183	0.179	0.178	0.178	0.178	0.178	0.178	0.179	0.178	0.178	0.178	0.178	0.180	0.181	0.183	0.183	0.184	0.185	0.185	
Residual Fuel Oil	0.012	0.013	0.011	0.011	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	
Petrochemical Feedstocks	0.031	0.028	0.024	0.023	0.022	0.023	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022	0.022	0.022	0.021	0.021	0.020	0.020	0.020	
Other Petroleum 5/	0.268	0.257	0.233	0.225	0.253	0.273	0.284	0.291	0.288	0.260	0.258	0.269	0.261	0.260	0.269	0.259	0.255	0.254	0.249	0.252	0.250	0.246	0.243	0.249	0.247	0.247	
Liquid Fuels Subtotal	0.649	0.646	0.598	0.590	0.604	0.635	0.649	0.658	0.648	0.616	0.612	0.621	0.612	0.608	0.619	0.605	0.600	0.599	0.598	0.601	0.600	0.596	0.593	0.598	0.590	0.590	
Natural Gas	0.439	0.483	0.541	0.545	0.582	0.619	0.625	0.629	0.620	0.621	0.629	0.631	0.626	0.628	0.630	0.630	0.631	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	
Natural-Gas-to-Liquids Heat and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Lease and Plant Fuel 6/	0.030	0.031	0.033	0.031	0.028	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021	0.021	0.020	0.020	0.018	0.017	0.018	0.017	0.017	0.017	0.017	0.016	0.016	0.016	
Natural Gas Subtotal	0.468	0.514	0.574	0.576	0.610	0.645	0.650	0.653	0.644	0.644	0.651	0.653	0.647	0.648	0.651	0.650	0.648	0.649	0.655	0.655	0.654	0.654	0.654	0.654	0.654	0.654	
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Other Industrial Coal	0.161	0.161	0.168	0.139	0.133	0.136	0.140	0.143	0.145	0.144	0.144	0.144	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.146	0.145	0.145	0.145	0.145	0.144	0.144	
Coal-to-Liquids Heat and Pt	0.000	0.000	0.000	0.000																							

Delivered Energy	1.853	1.976	2.227	2.037	2.153	2.283	2.317	2.360	2.338	2.327	2.361	2.392	2.384	2.406	2.454	2.470	2.498	2.535	2.586	2.626	2.657	2.782	2.786	2.787	2.795
Electricity Related Losses	0.686	0.677	0.678	0.677	0.720	0.777	0.810	0.827	0.819	0.827	0.825	0.827	0.824	0.821	0.818	0.814	0.802	0.795	0.788	0.771	0.763	0.758	0.746	0.740	0.732
Total	2.539	2.654	2.905	2.714	2.874	3.060	3.127	3.187	3.158	3.154	3.187	3.220	3.208	3.227	3.272	3.284	3.300	3.330	3.374	3.396	3.420	3.541	3.532	3.527	3.526
Transportation																									
Liquefied Petroleum Gases	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.067	0.079	0.099	0.094	0.101	0.108	0.115	0.119	0.122	0.126	0.128	0.134	0.136	0.138	0.139
Motor Gasoline 2/	1.255	1.261	1.222	1.208	1.252	1.287	1.283	1.273	1.260	1.232	1.154	1.124	1.087	1.085	1.069	1.056	1.041	1.033	1.027	1.020	1.014	1.007	1.003	0.994	0.993
Jet Fuel 9/	0.165	0.139	0.136	0.135	0.130	0.127	0.127	0.127	0.128	0.130	0.131	0.133	0.136	0.139	0.142	0.144	0.146	0.148	0.150	0.152	0.154	0.156	0.158	0.160	0.162
Distillate Fuel Oil 10/	0.572	0.578	0.557	0.542	0.541	0.549	0.568	0.582	0.587	0.589	0.595	0.603	0.611	0.617	0.624	0.630	0.636	0.645	0.654	0.663	0.670	0.677	0.685	0.692	0.701
Residual Fuel Oil	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 11/	0.014	0.013	0.013	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Liquid Fuels Subtotal	2.009	1.993	1.930	1.900	1.939	1.978	1.993	1.998	1.991	1.978	1.962	1.955	1.948	1.950	1.952	1.953	1.954	1.960	1.968	1.976	1.983	1.990	1.997	1.998	2.010
Pipeline Fuel Natural Gas	0.087	0.093	0.101	0.100	0.099	0.099	0.098	0.098	0.097	0.097	0.097	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.099	0.100	0.101	0.101	0.101	0.101	0.101
Compressed Natural Gas	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008
Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Delivered Energy	2.098	2.088	2.033	2.003	2.041	2.080	2.095	2.100	2.092	2.080	2.065	2.057	2.051	2.053	2.055	2.056	2.058	2.065	2.075	2.083	2.091	2.099	2.107	2.108	2.121
Electricity Related Losses	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.003
Total	2.099	2.088	2.034	2.003	2.041	2.080	2.095	2.101	2.093	2.081	2.066	2.058	2.052	2.054	2.056	2.058	2.060	2.067	2.077	2.085	2.093	2.102	2.110	2.112	2.124

Delivered Energy Consumption, All Sectors

Liquefied Petroleum Gases	0.192	0.199	0.199	0.199	0.185	0.185	0.185	0.185	0.182	0.179	0.176	0.173	0.171	0.167	0.168	0.164	0.164	0.164	0.167	0.165	0.165	0.163	0.162	0.161	0.154
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.067	0.079	0.099	0.094	0.101	0.108	0.115	0.119	0.122	0.126	0.128	0.134	0.136	0.138	0.139
Motor Gasoline 2/	1.308	1.314	1.275	1.261	1.304	1.340	1.337	1.327	1.312	1.285	1.206	1.177	1.139	1.138	1.122	1.109	1.094	1.085	1.079	1.073	1.068	1.061	1.058	1.048	1.048
Jet Fuel 9/	0.165	0.139	0.136	0.135	0.130	0.127	0.127	0.127	0.128	0.130	0.131	0.133	0.136	0.139	0.142	0.144	0.146	0.148	0.150	0.152	0.154	0.156	0.158	0.160	0.162
Kerosene	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Distillate Fuel Oil	0.773	0.787	0.756	0.737	0.738	0.751	0.770	0.783	0.783	0.784	0.791	0.798	0.806	0.812	0.820	0.825	0.830	0.839	0.849	0.859	0.868	0.877	0.885	0.892	0.902
Residual Fuel Oil	0.016	0.017	0.014	0.014	0.011	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010
Petrochemical Feedstocks	0.031	0.028	0.024	0.023	0.022	0.023	0.023	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022	0.022	0.022	0.021	0.020	0.020	0.020
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	0.281	0.269	0.246	0.237	0.265	0.285	0.296	0.303	0.300	0.272	0.271	0.281	0.273	0.272	0.281	0.271	0.268	0.266	0.262	0.265	0.263	0.258	0.256	0.262	0.260
Liquid Fuels Subtotal	2.767	2.755	2.651	2.607	2.657	2.724	2.752	2.763	2.743	2.697	2.677	2.660	2.657	2.657	2.669	2.656	2.653	2.656	2.663	2.674	2.679	2.682	2.686	2.692	2.696
Natural Gas	1.109	1.208	1.336	1.308	1.336	1.351	1.356	1.360	1.354	1.356	1.365	1.366	1.360	1.360	1.361	1.358	1.356	1.361	1.371	1.372	1.373	1.411	1.405	1.397	1.398
Natural-Gas-to-Liquids Heat	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.030	0.031	0.033	0.031	0.028	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021	0.021	0.020	0.020	0.018	0.017	0.018	0.017	0.017	0.017	0.017	0.016	0.016
Pipeline Natural Gas	0.087	0.093	0.101	0.100	0.099	0.099	0.098	0.098	0.097	0.097	0.097	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.099	0.099	0.100	0.101	0.101	0.101	0.101
Natural Gas Subtotal	1.225	1.332	1.470	1.439	1.463	1.476	1.479	1.482	1.474	1.476	1.484	1.484	1.477	1.476	1.478	1.473	1.470	1.475	1.487	1.488	1.489	1.529	1.523	1.514	1.515
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	0.174	0.174	0.182	0.151	0.146	0.149	0.153	0.156	0.158	0.157	0.157	0.157	0.157	0.157	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.157	0.157	0.157
Coal-to-Liquids Heat and Pt	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.021	0.024	0.030	0.037	0.043	0.045	0.047	0.050	0.058	0.067	0.076	0.086	0.096	0.106	0.117	0.128	0.140	0.151
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.174	0.174	0.182	0.151	0.146	0.149	0.155	0.177	0.182	0.188	0.194	0.200	0.202	0.204	0.207	0.216	0.225	0.234	0.244	0.254	0.264	0.275	0.286	0.297	0.308
Biofuels Heat and Coproduct	0.223	0.303	0.531	0.392	0.456	0.504	0.504	0.507	0.500	0.512	0.530	0.537	0.536	0.549	0.568	0.578	0.589	0.601	0.618	0.630	0.640	0.709	0.710	0.706	0.709
Renewable Energy 13/	0.115	0.122	0.136	0.126	0.121	0.119	0.120	0.121	0.122	0.127	0.133	0.138	0.142	0.152	0.162	0.174	0.189	0.205	0.222	0.237	0.251	0.261	0.263	0.259	0.260
Electricity	0.949	0.977	0.965	0.953	0.978	0.988	0.999	1.004	1.007	1.012	1.021	1.031	1.040	1.050	1.061	1.070	1.079	1.091	1.103	1.114	1.124	1.136	1.151	1.158	1.158
Delivered Energy	5.454	5.663	5.935	5.668	5.820	5.959	6.009	6.054	6.029	6.012	6.039	6.066	6.057	6.089	6.145	6.167	6.205	6.262	6.338	6.397	6.448	6.592	6.614	6.619	6.646
Electricity Related Losses	2.316	2.354	2.339	2.396	2.525	2.645	2.708	2.732	2.709	2.757	2.764	2.768	2.772	2.772	2.771	2.774	2.761	2.755	2.753	2.719	2.731	2.730	2.729	2.744	2.749
Total	7.770	8.017	8.274	8.064	8.345	8.604	8.717	8.776	8.738	8.769	8.803	8.834	8.825	8.861	8.917	8.941	8.966	9.017	9.091	9.116	9.179	9.322	9.343	9.363	9.395

Electric Power 14/

Distillate Fuel Oil	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.011	0.011	0.
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Liquefied Petroleum Gases	0.192	0.199	0.199	0.185	0.185	0.185	0.182	0.179	0.176	0.173	0.171	0.167	0.168	0.164	0.164	0.167	0.165	0.163	0.162	0.161	0.154
E85 8/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.067	0.079	0.099	0.094	0.101	0.108	0.115	0.119	0.122	0.128	0.136	0.139
Motor Gasoline 2/	1.308	1.314	1.275	1.304	1.340	1.337	1.312	1.285	1.206	1.177	1.139	1.138	1.122	1.109	1.094	1.085	1.079	1.073	1.068	1.061	1.048
Jet Fuel 9/	0.165	0.139	0.136	0.130	0.127	0.127	0.127	0.128	0.130	0.131	0.133	0.136	0.139	0.142	0.144	0.146	0.150	0.152	0.154	0.158	0.162
Kerosene	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Distillate Fuel Oil	0.782	0.796	0.765	0.747	0.747	0.760	0.780	0.793	0.795	0.801	0.808	0.816	0.823	0.830	0.836	0.841	0.850	0.859	0.870	0.878	0.893
Residual Fuel Oil	0.017	0.018	0.015	0.014	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.013	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022	0.022
Petrochemical Feedstocks	0.031	0.028	0.024	0.023	0.023	0.023	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022	0.022	0.021	0.020
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Petroleum 12/	2.811	2.659	2.246	2.237	2.265	2.285	2.296	2.303	2.271	2.281	2.273	2.272	2.272	2.281	2.271	2.268	2.266	2.262	2.265	2.258	2.262
Liquid Fuels Subtotal	2.777	2.766	2.660	2.617	2.734	2.762	2.773	2.753	2.708	2.688	2.688	2.680	2.692	2.679	2.675	2.679	2.686	2.696	2.702	2.705	2.718
Natural Gas	1.221	1.354	1.378	1.385	1.449	1.482	1.486	1.491	1.484	1.499	1.502	1.494	1.490	1.490	1.489	1.495	1.512	1.508	1.508	1.547	1.537
Natural-Gas-to-Liquids Heat	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lease and Plant Fuel 6/	0.030	0.031	0.033	0.031	0.028	0.026	0.025	0.024	0.023	0.022	0.022	0.021	0.021	0.020	0.020	0.018	0.017	0.017	0.017	0.017	0.016
Pipeline Natural Gas	0.087	0.093	0.101	0.100	0.099	0.099	0.098	0.098	0.097	0.097	0.096	0.096	0.096	0.096	0.096	0.097	0.099	0.099	0.100	0.101	0.101
Natural Gas Subtotal	1.338	1.478	1.511	1.516	1.576	1.607	1.609	1.613	1.605	1.607	1.619	1.620	1.611	1.603	1.606	1.605	1.603	1.624	1.625	1.664	1.654
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other Coal	2.617	2.638	2.664	2.610	2.654	2.751	2.787	2.805	2.792	2.842	2.851	2.862	2.871	2.870	2.876	2.850	2.844	2.847	2.851	2.838	2.904
Coal-to-Liquids Heat and Pt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	2.617	2.639	2.664	2.610	2.654	2.751	2.789	2.826	2.816	2.873	2.887	2.904	2.916	2.917	2.926	2.909	2.911	2.923	2.934	2.962	3.055
Nuclear Power	0.479	0.494	0.480	0.482	0.482	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483
Biofuels Heat and Coproduct	0.223	0.303	0.531	0.392	0.456	0.504	0.504	0.507	0.500	0.512	0.530	0.537	0.536	0.549	0.568	0.578	0.589	0.601	0.618	0.630	0.709
Renewable Energy 17/	0.302	0.316	0.390	0.418	0.483	0.499	0.548	0.551	0.557	0.567	0.583	0.587	0.611	0.624	0.668	0.707	0.727	0.740	0.755	0.767	0.764
Electricity Imports	0.030	0.028	0.032	0.023	0.021	0.022	0.018	0.018	0.019	0.014	0.015	0.014	0.013	0.012	0.012	0.015	0.013	0.009	0.007	0.003	0.007
Total	7.770	8.017	8.274	8.064	8.345	8.604	8.717	8.776	8.738	8.769	8.803	8.834	8.825	8.861	8.917	8.941	8.966	9.017	9.116	9.322	9.395

#### Energy Use & Related Statistics

Delivered Energy Use	5.454	5.663	5.935	5.668	5.820	5.959	6.009	6.054	6.029	6.012	6.039	6.066	6.057	6.145	6.167	6.205	6.262	6.338	6.397	6.448	6.614
Total Energy Use	7.770	8.017	8.274	8.064	8.345	8.604	8.717	8.776	8.738	8.769	8.803	8.834	8.825	8.861	8.917	8.941	8.966	9.017	9.091	9.116	9.322
Ethanol Consumed in Motor	0.049	0.059	0.086	0.088	0.091	0.094	0.093	0.093	0.092	0.103	0.129	0.135	0.145	0.142	0.146	0.149	0.153	0.155	0.157	0.159	0.166
Population (millions)	20.016	20.134	20.259	20.385	20.511	20.634	20.757	20.878	20.999	21.117	21.234	21.348	21.460	21.568	21.673	21.775	21.872	21.965	22.054	22.138	22.221
Carbon Dioxide Emissions ( million tons)	502.22	509.21	506.63	499.97	510.92	524.56	529.30	532.98	530.29	532.19	530.77	532.03	531.09	531.68	533.30	530.55	530.47	532.26	534.90	537.92	549.17

1/ Includes wood used for residential heating. See Table 4 and/or Table 17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Excludes ethanol. Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power. See Table 5 and/or Table 17 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

7/ Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources. Excludes ethanol blends (10 percent or less) in motor gasoline.

8/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

9/ Includes only kerosene type.

10/ Diesel fuel for on- and off- road use.

11/ Includes aviation gasoline and lubricants.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes ethanol and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes non-biogenic municipal waste not included above.

17/ Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal waste, other biomass, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

ethanol, net electricity imports, and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.  
Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2006 and 2007 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 2008), 2006 and 2007 population and gross domestic product: IHS Global Insight, Global Insight Industry and Employment models, November 2008. 2006 and 2007 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2007, DOE/EIA-0573(2007) (Washington, DC, December 2008). Projections: EIA, AEO2009 National Energy Modeling System run stimulus.d041409a.