

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
<b>Energy Consumption</b>														
<b>Residential</b>														
Distillate Fuel	0.024	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
Kerosene	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	
Liquefied Petroleum Gas	0.115	0.109	0.113	0.103	0.104	0.106	0.108	0.110	0.111	0.112	0.113	0.114	0.115	
Petroleum Subtotal	0.140	0.132	0.136	0.125	0.127	0.129	0.131	0.133	0.134	0.136	0.137	0.137	0.138	
Natural Gas	0.471	0.478	0.476	0.484	0.488	0.495	0.506	0.511	0.518	0.522	0.526	0.525	0.523	
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	
Renewable Energy 1/ Electricity	0.023 0.320	0.023 0.320	0.023 0.319	0.024 0.336	0.024 0.342	0.024 0.350	0.024 0.357	0.024 0.362	0.024 0.368	0.024 0.374	0.024 0.382	0.024 0.387	0.024 0.393	
Delivered Energy	0.955	0.955	0.956	0.971	0.982	0.999	1.019	1.032	1.045	1.057	1.070	1.074	1.080	
Electricity Related Losses	0.806	0.854	0.843	0.890	0.916	0.949	0.954	0.943	0.942	0.938	0.937	0.937	0.935	
Total	1.761	1.809	1.799	1.861	1.898	1.948	1.973	1.975	1.987	1.995	2.007	2.011	2.015	
<b>Commercial</b>														
Distillate Fuel	0.028	0.029	0.031	0.031	0.033	0.035	0.037	0.039	0.040	0.041	0.042	0.043	0.044	
Residual Fuel	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
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	
Liquefied Petroleum Gas	0.017	0.016	0.016	0.016	0.016	0.017	0.017	0.016	0.016	0.017	0.017	0.017	0.017	
Motor Gasoline 2/ Petroleum Subtotal	0.007 0.055	0.007 0.056	0.007 0.056	0.007 0.056	0.007 0.058	0.007 0.061	0.007 0.063	0.007 0.065	0.007 0.066	0.007 0.067	0.007 0.068	0.007 0.069	0.007 0.070	
Natural Gas	0.301	0.298	0.297	0.291	0.294	0.298	0.304	0.308	0.313	0.316	0.318	0.320	0.321	
Coal	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
Renewable Energy 3/ Electricity	0.004 0.299	0.004 0.298	0.004 0.300	0.004 0.313	0.004 0.321	0.004 0.330	0.004 0.338	0.004 0.345	0.004 0.353	0.004 0.361	0.004 0.369	0.004 0.377	0.004 0.385	
Delivered Energy	0.671	0.670	0.672	0.679	0.691	0.707	0.723	0.737	0.749	0.762	0.773	0.784	0.793	
Electricity Related Losses	0.754	0.795	0.793	0.828	0.858	0.895	0.902	0.899	0.903	0.904	0.906	0.913	0.916	
Total	1.425	1.466	1.465	1.506	1.549	1.602	1.625	1.636	1.653	1.666	1.679	1.696	1.709	
<b>Industrial 4/</b>														
Distillate Fuel	0.142	0.144	0.143	0.144	0.145	0.145	0.146	0.146	0.146	0.146	0.146	0.146	0.147	
Liquefied Petroleum Gas	0.118	0.112	0.114	0.115	0.114	0.114	0.116	0.117	0.117	0.118	0.119	0.119	0.120	
Petrochemical Feedstocks	0.023	0.025	0.024	0.026	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.028	0.028	
Residual Fuel	0.008	0.010	0.010	0.010	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.040 0.251 0.582	0.040 0.242 0.573	0.041 0.250 0.582	0.040 0.247 0.583	0.040 0.264 0.602	0.040 0.261 0.600	0.040 0.261 0.603	0.040 0.263 0.607	0.040 0.263 0.605	0.041 0.260 0.606	0.041 0.258 0.605	0.041 0.256 0.604	0.042 0.256 0.607	
Natural Gas	0.428	0.410	0.421	0.429	0.443	0.448	0.456	0.463	0.474	0.480	0.484	0.488	0.493	
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.041 0.469	0.041 0.451	0.040 0.461	0.041 0.470	0.040 0.483	0.039 0.487	0.039 0.496	0.041 0.504	0.042 0.516	0.044 0.524	0.047 0.530	0.048 0.536	0.048 0.541	
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	
Steam Coal	0.213	0.227	0.237	0.240	0.234	0.235	0.235	0.236	0.236	0.236	0.235	0.235	0.235	
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	
Coal Subtotal	0.213	0.227	0.237	0.240	0.234	0.235	0.235	0.236	0.236	0.236	0.235	0.235	0.235	
Renewable Energy 7/ Electricity	0.088 0.258	0.087 0.255	0.096 0.267	0.098 0.274	0.099 0.277	0.100 0.280	0.101 0.285	0.102 0.290	0.103 0.293	0.104 0.296	0.105 0.298	0.106 0.300	0.107 0.303	
Delivered Energy	1.610	1.593	1.644	1.665	1.695	1.701	1.720	1.739	1.753	1.766	1.774	1.780	1.794	
Electricity Related Losses	0.649	0.679	0.706	0.724	0.741	0.760	0.761	0.755	0.750	0.741	0.732	0.726	0.722	
Total	2.259	2.272	2.349	2.388	2.437	2.461	2.481	2.494	2.504	2.507	2.506	2.506	2.515	
<b>Transportation</b>														
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.467 0.138 1.242 0.001	0.477 0.134 1.254 0.001	0.502 0.141 1.279 0.001	0.521 0.145 1.295 0.001	0.530 0.149 1.321 0.001	0.542 0.152 1.350 0.001	0.559 0.155 1.379 0.001	0.574 0.158 1.406 0.001	0.574 0.162 1.430 0.001	0.585 0.165 1.450 0.001	0.596 0.168 1.470 0.001	0.606 0.170 1.490 0.001	0.614 0.172 1.510 0.001	0.625 0.172 1.510 0.001
Liquefied Petroleum Gas	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.016 1.867	0.018 1.887	0.018 1.943	0.018 1.982	0.018 2.022	0.018 2.067	0.018 2.116	0.018 2.162	0.018 2.201	0.019 2.236	0.019 2.268	0.019 2.299	0.019 2.332
Pipeline Fuel Natural Gas	0.099	0.094	0.099	0.099	0.097	0.094	0.093	0.092	0.092	0.093	0.093	0.093	0.094
Compressed Natural Gas	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006
Renewable Energy (E85) 11/ 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 0.000
Electricity	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Delivered Energy	1.972	1.988	2.049	2.089	2.127	2.170	2.218	2.265	2.304	2.340	2.373	2.404	2.439
Electricity Related Losses	0.013	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Total	1.985	2.002	2.063	2.103	2.141	2.186	2.233	2.280	2.319	2.354	2.388	2.419	2.454
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.661	0.673	0.698	0.718	0.730	0.745	0.764	0.782	0.793	0.805	0.815	0.825	0.837
Kerosene	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
Jet Fuel 9/	0.138	0.134	0.141	0.145	0.149	0.152	0.155	0.158	0.162	0.165	0.168	0.170	0.172
Liquefied Petroleum Gas	0.252	0.239	0.245	0.237	0.237	0.241	0.244	0.247	0.249	0.251	0.253	0.255	0.257
Motor Gasoline 2/	1.289	1.302	1.327	1.342	1.367	1.397	1.426	1.454	1.477	1.498	1.518	1.538	1.559
Petrochemical Feedstocks	0.023	0.025	0.024	0.026	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.028	0.028
Residual Fuel	0.011	0.013	0.013	0.012	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Other Petroleum 12/ Petroleum Subtotal	0.267 2.643	0.260 2.648	0.268 2.718	0.264 2.746	0.281 2.808	0.279 2.858	0.279 2.913	0.281 2.967	0.279 3.006	0.279 3.045	0.276 3.078	0.275 3.109	0.275 3.147
Natural Gas	1.200	1.187	1.197	1.207	1.228	1.245	1.269	1.287	1.309	1.323	1.333	1.338	1.344
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.041 0.099	0.041 0.094	0.040 0.099	0.041 0.099	0.040 0.097	0.039 0.094	0.039 0.093	0.041 0.092	0.042 0.092	0.044 0.093	0.047 0.093	0.048 0.093	0.048 0.094
Natural Gas Subtotal	1.340	1.322	1.335	1.347	1.364	1.378	1.402	1.420	1.443	1.460	1.473	1.479	1.486
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
Steam Coal	0.228	0.243	0.253	0.256	0.250	0.250	0.251	0.251	0.252	0.251	0.251	0.250	0.250
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
Coal Subtotal	0.228	0.243	0.253	0.256	0.250	0.250	0.251	0.251	0.252	0.251	0.251	0.250	0.250
Renewable Energy 13/ Liquid Hydrogen	0.115 0.000	0.114 0.000	0.123 0.000	0.126 0.000	0.126 0.000	0.127 0.000	0.129 0.000	0.130 0.000	0.131 0.000	0.132 0.000	0.133 0.000	0.133 0.000	0.135 0.000
Electricity	0.881	0.879	0.890	0.928	0.946	0.965	0.986	1.004	1.020	1.037	1.055	1.070	1.088
Delivered Energy	5.207	5.207	5.320	5.404	5.495	5.578	5.680	5.772	5.851	5.924	5.990	6.042	6.105
Electricity Related Losses	2.222	2.342	2.356	2.455	2.531	2.619	2.631	2.612	2.611	2.598	2.590	2.590	2.588
Total	7.429	7.549	7.676	7.859	8.025	8.197	8.312	8.384	8.462	8.523	8.580	8.633	8.693
Electric Power 14/													
Distillate Fuel	0.019	0.023	0.021	0.023	0.023	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.026
Residual Fuel	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
Petroleum Subtotal	0.019	0.024	0.021	0.023	0.023	0.024	0.024	0.024	0.025	0.025	0.026	0.026	0.027
Natural Gas	0.076	0.068	0.117	0.115	0.111	0.111	0.113	0.123	0.129	0.140	0.154	0.163	0.178
Steam Coal	2.379	2.532	2.486	2.594	2.690	2.792	2.825	2.816	2.827	2.833	2.834	2.835	2.836
Nuclear Power	0.474	0.461	0.473	0.474	0.474	0.474	0.474	0.474	0.474	0.475	0.475	0.475	0.475
Renewable Energy/Other 15/ Electricity Imports	0.140 0.016	0.147 -0.010	0.157 -0.009	0.187 -0.010	0.193 -0.015	0.194 -0.010	0.194 -0.013	0.195 -0.016	0.196 -0.020	0.196 -0.034	0.196 -0.039	0.196 -0.035	0.196 -0.037
Total	3.103	3.221	3.246	3.384	3.477	3.584	3.617	3.616	3.630	3.635	3.645	3.660	3.675
Total Energy Consumption													
Distillate Fuel	0.680	0.697	0.719	0.741	0.753	0.768	0.788	0.806	0.817	0.829	0.840	0.850	0.863
Kerosene	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
Jet Fuel 9/	0.138	0.134	0.141	0.145	0.149	0.152	0.155	0.158	0.162	0.165	0.168	0.170	0.172
Liquefied Petroleum Gas	0.252	0.239	0.245	0.237	0.237	0.241	0.244	0.247	0.249	0.251	0.253	0.255	0.257
Motor Gasoline 2/	1.289	1.302	1.327	1.342	1.367	1.397	1.426	1.454	1.477	1.498	1.518	1.538	1.559
Petrochemical Feedstocks	0.023	0.025	0.024	0.026	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.028	0.028
Residual Fuel	0.012	0.014	0.013	0.012	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.018	0.018
Other Petroleum 12/ Petroleum Subtotal	0.267 2.663	0.260 2.672	0.268 2.740	0.264 2.769	0.281 2.832	0.279 2.882	0.279 2.937	0.281 2.991	0.279 3.030	0.279 3.069	0.276 3.103	0.275 3.135	0.275 3.174
Natural Gas	1.276	1.255	1.314	1.323	1.339	1.355	1.382	1.409	1.438	1.463	1.487	1.502	1.522

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.041	0.041	0.040	0.041	0.040	0.039	0.039	0.041	0.042	0.044	0.047	0.048	0.048
Pipeline Natural Gas	0.099	0.094	0.099	0.099	0.097	0.094	0.093	0.092	0.092	0.093	0.093	0.093	0.094
Natural Gas Subtotal	1.416	1.390	1.453	1.462	1.475	1.489	1.515	1.543	1.573	1.600	1.627	1.643	1.664
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
Steam Coal	2.606	2.775	2.739	2.850	2.940	3.042	3.076	3.067	3.079	3.085	3.085	3.086	3.087
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
Coal Subtotal	2.606	2.775	2.739	2.850	2.940	3.042	3.076	3.067	3.079	3.085	3.085	3.086	3.087
Nuclear Power	0.474	0.461	0.473	0.474	0.474	0.474	0.474	0.474	0.474	0.475	0.475	0.475	0.475
Renewable Energy 16/	0.255	0.261	0.281	0.313	0.319	0.321	0.323	0.325	0.326	0.328	0.329	0.329	0.331
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
Electricity Imports	0.016	-0.010	-0.009	-0.010	-0.015	-0.010	-0.013	-0.016	-0.020	-0.034	-0.039	-0.035	-0.037
Total	7.429	7.549	7.676	7.859	8.025	8.197	8.312	8.384	8.462	8.523	8.580	8.633	8.693
<b>Energy Use &amp; Related Statistics</b>													
Delivered Energy Use	5.207	5.207	5.320	5.404	5.495	5.578	5.680	5.772	5.851	5.924	5.990	6.042	6.105
Total Energy Use	7.429	7.549	7.676	7.859	8.025	8.197	8.312	8.384	8.462	8.523	8.580	8.633	8.693
Population (millions)	19.506	19.608	19.712	19.814	19.913	20.011	20.105	20.200	20.293	20.386	20.478	20.570	20.661

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.022	0.022	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.020	0.020	-0.5%
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	2.8%
Liquefied Petroleum Gas	0.116	0.116	0.116	0.117	0.117	0.117	0.117	0.118	0.118	0.118	0.119	0.4%
Petroleum Subtotal	0.139	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.141	0.141	0.3%
Natural Gas	0.522	0.523	0.523	0.523	0.522	0.522	0.519	0.518	0.517	0.518	0.516	0.4%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.9%
Renewable Energy 1/	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.0%
Electricity	0.399	0.405	0.410	0.415	0.420	0.427	0.431	0.437	0.443	0.450	0.455	1.6%
Delivered Energy	1.085	1.093	1.097	1.102	1.107	1.114	1.114	1.119	1.125	1.134	1.137	0.8%
Electricity Related Losses	0.950	0.968	0.969	0.975	0.976	0.982	0.980	0.983	1.002	1.032	1.045	0.9%
Total	2.035	2.062	2.066	2.078	2.083	2.095	2.095	2.102	2.127	2.165	2.182	0.9%
Commercial												
Distillate Fuel	0.045	0.046	0.047	0.047	0.048	0.049	0.050	0.051	0.052	0.053	0.054	2.8%
Residual Fuel	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-1.8%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.5%
Liquefied Petroleum Gas	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.2%
Motor Gasoline 2/	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	-0.1%
Petroleum Subtotal	0.071	0.072	0.073	0.074	0.074	0.075	0.076	0.077	0.078	0.079	0.080	1.7%
Natural Gas	0.322	0.324	0.326	0.328	0.330	0.330	0.331	0.333	0.335	0.337	0.339	0.6%
Coal	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	-0.1%
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.393	0.401	0.409	0.417	0.426	0.434	0.443	0.452	0.461	0.471	0.481	2.2%
Delivered Energy	0.803	0.814	0.826	0.837	0.847	0.858	0.868	0.880	0.892	0.905	0.919	1.4%
Electricity Related Losses	0.934	0.957	0.968	0.981	0.989	0.999	1.007	1.017	1.045	1.081	1.106	1.5%
Total	1.738	1.771	1.793	1.818	1.836	1.856	1.875	1.897	1.937	1.986	2.025	1.5%
Industrial 4/												
Distillate Fuel	0.149	0.149	0.150	0.151	0.153	0.154	0.155	0.156	0.158	0.159	0.160	0.5%
Liquefied Petroleum Gas	0.121	0.121	0.122	0.123	0.124	0.125	0.126	0.127	0.128	0.129	0.129	0.7%
Petrochemical Feedstocks	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.4%
Residual Fuel	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.014	0.014	0.015	1.9%
Motor Gasoline 2/	0.042	0.042	0.043	0.043	0.043	0.044	0.044	0.045	0.045	0.046	0.047	0.7%
Other Petroleum 5/	0.259	0.263	0.265	0.270	0.275	0.278	0.281	0.283	0.285	0.291	0.298	0.9%
Petroleum Subtotal	0.613	0.616	0.621	0.630	0.637	0.643	0.648	0.652	0.658	0.666	0.676	0.8%
Natural Gas	0.494	0.497	0.503	0.510	0.514	0.517	0.520	0.525	0.530	0.532	0.538	1.2%
Lease and Plant Fuel 6/	0.048	0.044	0.043	0.048	0.050	0.050	0.047	0.046	0.047	0.047	0.047	0.7%
Natural Gas Subtotal	0.541	0.540	0.546	0.557	0.564	0.567	0.568	0.571	0.576	0.580	0.585	1.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.234	0.234	0.234	0.234	0.233	0.233	0.233	0.233	0.232	0.232	0.232	0.1%
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	N/A
Coal Subtotal	0.234	0.234	0.234	0.234	0.233	0.233	0.233	0.233	0.232	0.232	0.232	0.1%
Renewable Energy 7/	0.108	0.108	0.109	0.111	0.112	0.113	0.114	0.115	0.116	0.117	0.117	1.4%
Electricity	0.305	0.307	0.310	0.314	0.317	0.320	0.321	0.323	0.325	0.328	0.330	1.2%
Delivered Energy	1.801	1.806	1.820	1.845	1.863	1.875	1.884	1.894	1.908	1.922	1.940	0.9%
Electricity Related Losses	0.726	0.732	0.733	0.738	0.737	0.735	0.730	0.727	0.737	0.751	0.758	0.5%
Total	2.528	2.538	2.553	2.583	2.601	2.610	2.614	2.621	2.645	2.673	2.698	0.8%
Transportation												
Distillate Fuel 8/	0.633	0.639	0.649	0.659	0.667	0.676	0.683	0.691	0.700	0.710	0.718	1.9%
Jet Fuel 9/	0.174	0.175	0.177	0.179	0.181	0.182	0.182	0.183	0.183	0.184	0.184	1.4%
Motor Gasoline 2/	1.529	1.546	1.563	1.579	1.594	1.609	1.625	1.642	1.661	1.681	1.703	1.4%
Residual Fuel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.8%
Liquefied Petroleum Gas	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	4.9%

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/	0.019	0.020	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.022	0.022	1.0%
Petroleum Subtotal	2.361	2.386	2.415	2.443	2.469	2.494	2.518	2.544	2.573	2.604	2.634	1.5%
Pipeline Fuel Natural Gas	0.094	0.094	0.096	0.098	0.100	0.101	0.101	0.101	0.102	0.102	0.102	0.4%
Compressed Natural Gas	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	8.2%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.4%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	1.6%
Delivered Energy	2.469	2.494	2.526	2.556	2.584	2.610	2.634	2.661	2.690	2.721	2.752	1.5%
Electricity Related Losses	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.9%
Total	2.484	2.510	2.541	2.571	2.600	2.625	2.650	2.677	2.707	2.738	2.769	1.5%
<b>Delivered Energy Consumption, All Sectors</b>												
Distillate Fuel	0.848	0.855	0.867	0.879	0.890	0.900	0.909	0.919	0.931	0.942	0.953	1.6%
Kerosene	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	1.8%
Jet Fuel 9/	0.174	0.175	0.177	0.179	0.181	0.182	0.182	0.183	0.183	0.184	0.184	1.4%
Liquefied Petroleum Gas	0.258	0.259	0.260	0.262	0.264	0.265	0.266	0.267	0.268	0.270	0.271	0.6%
Motor Gasoline 2/	1.578	1.595	1.613	1.629	1.645	1.660	1.677	1.694	1.713	1.734	1.756	1.4%
Petrochemical Feedstocks	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.4%
Residual Fuel	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	1.2%
Other Petroleum 12/	0.278	0.282	0.284	0.290	0.295	0.298	0.301	0.303	0.306	0.312	0.319	0.9%
Petroleum Subtotal	3.183	3.214	3.248	3.286	3.321	3.352	3.382	3.413	3.449	3.490	3.531	1.3%
Natural Gas	1.344	1.350	1.359	1.368	1.373	1.377	1.378	1.384	1.390	1.396	1.402	0.8%
Lease and Plant Fuel 6/	0.048	0.044	0.043	0.048	0.050	0.050	0.047	0.046	0.047	0.047	0.047	0.7%
Pipeline Natural Gas	0.094	0.094	0.096	0.098	0.100	0.101	0.101	0.101	0.102	0.102	0.102	0.4%
Natural Gas Subtotal	1.486	1.489	1.499	1.514	1.523	1.528	1.527	1.531	1.539	1.545	1.551	0.7%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.250	0.249	0.249	0.249	0.249	0.248	0.248	0.248	0.248	0.247	0.247	0.1%
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	N/A
Coal Subtotal	0.250	0.249	0.249	0.249	0.249	0.248	0.248	0.248	0.248	0.247	0.247	0.1%
Renewable Energy 13/	0.136	0.136	0.137	0.138	0.140	0.141	0.142	0.142	0.143	0.144	0.145	1.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	1.104	1.119	1.135	1.152	1.169	1.187	1.202	1.219	1.237	1.256	1.273	1.7%
Delivered Energy	6.158	6.207	6.268	6.340	6.402	6.457	6.501	6.554	6.616	6.683	6.748	1.2%
Electricity Related Losses	2.625	2.673	2.685	2.709	2.718	2.731	2.733	2.744	2.800	2.881	2.926	1.0%
Total	8.784	8.880	8.953	9.049	9.120	9.187	9.234	9.297	9.416	9.563	9.674	1.1%
<b>Electric Power 14/</b>												
Distillate Fuel	0.027	0.027	0.027	0.027	0.028	0.029	0.028	0.028	0.029	0.030	0.036	1.9%
Residual Fuel	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.0%
Petroleum Subtotal	0.027	0.027	0.028	0.028	0.028	0.029	0.029	0.029	0.030	0.031	0.036	1.9%
Natural Gas	0.182	0.184	0.197	0.201	0.205	0.205	0.200	0.203	0.204	0.202	0.196	4.9%
Steam Coal	2.895	2.955	2.956	2.992	3.013	3.044	3.066	3.089	3.162	3.246	3.314	1.2%
Nuclear Power	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.1%
Renewable Energy/Other 15/	0.196	0.196	0.196	0.196	0.196	0.198	0.198	0.200	0.202	0.203	0.203	1.5%
Electricity Imports	-0.047	-0.046	-0.033	-0.031	-0.030	-0.034	-0.033	-0.034	-0.036	-0.021	-0.024	4.1%
Total	3.729	3.792	3.820	3.861	3.888	3.918	3.936	3.963	4.037	4.136	4.199	1.2%
<b>Total Energy Consumption</b>												
Distillate Fuel	0.874	0.882	0.894	0.907	0.918	0.929	0.937	0.947	0.960	0.973	0.989	1.6%
Kerosene	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	1.8%
Jet Fuel 9/	0.174	0.175	0.177	0.179	0.181	0.182	0.182	0.183	0.183	0.184	0.184	1.4%
Liquefied Petroleum Gas	0.258	0.259	0.260	0.262	0.264	0.265	0.266	0.267	0.268	0.270	0.271	0.6%
Motor Gasoline 2/	1.578	1.595	1.613	1.629	1.645	1.660	1.677	1.694	1.713	1.734	1.756	1.4%
Petrochemical Feedstocks	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.4%
Residual Fuel	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	1.1%
Other Petroleum 12/	0.278	0.282	0.284	0.290	0.295	0.298	0.301	0.303	0.306	0.312	0.319	0.9%
Petroleum Subtotal	3.211	3.241	3.276	3.314	3.349	3.382	3.411	3.442	3.479	3.520	3.567	1.3%
Natural Gas	1.526	1.535	1.557	1.570	1.578	1.582	1.578	1.587	1.594	1.599	1.598	1.1%

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.048	0.044	0.043	0.048	0.050	0.050	0.047	0.046	0.047	0.047	0.047	0.7%
Pipeline Natural Gas	0.094	0.094	0.096	0.098	0.100	0.101	0.101	0.101	0.102	0.102	0.102	0.4%
Natural Gas Subtotal	1.668	1.673	1.696	1.716	1.728	1.733	1.727	1.734	1.742	1.748	1.747	1.0%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	3.145	3.204	3.205	3.241	3.262	3.293	3.314	3.336	3.410	3.494	3.561	1.1%
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	N/A
Coal Subtotal	3.145	3.204	3.205	3.241	3.262	3.293	3.314	3.336	3.410	3.494	3.561	1.1%
Nuclear Power	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.1%
Renewable Energy 16/	0.332	0.332	0.333	0.334	0.336	0.339	0.340	0.343	0.345	0.347	0.347	1.3%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	-0.047	-0.046	-0.033	-0.031	-0.030	-0.034	-0.033	-0.034	-0.036	-0.021	-0.024	4.1%
Total	8.784	8.880	8.953	9.049	9.120	9.187	9.234	9.297	9.416	9.563	9.674	1.1%
<b>Energy Use &amp; Related Statistics</b>												
Delivered Energy Use	6.158	6.207	6.268	6.340	6.402	6.457	6.501	6.554	6.616	6.683	6.748	1.2%
Total Energy Use	8.784	8.880	8.953	9.049	9.120	9.187	9.234	9.297	9.416	9.563	9.674	1.1%
Population (millions)	20.751	20.840	20.928	21.014	21.099	21.183	21.266	21.350	21.434	21.519	21.604	0.4%

**Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central**

1/ Includes wood used for residential heating. See Table A18 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/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

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 the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ 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 actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

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 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 (CHP) 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, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes 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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 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: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.