

6.2.4 Electric Conversion Factors and Transmission and Distribution (T&D) Losses

	Average Utility Delivery Efficiency (1, 2)	Average Utility Delivery Ratio (Btu/kWh) (2, 3)	Growth Rate (2010-year)
1980	29.4%	11,614	-
1981	29.9%	11,405	-
1982	29.7%	11,481	-
1983	29.8%	11,437	-
1984	30.5%	11,195	-
1985	30.4%	11,228	-
1986	30.8%	11,068	-
1987	31.1%	10,964	-
1988	31.1%	10,967	-
1989	30.2%	10,844	-
1990	30.3%	10,754	-
1991	30.5%	10,696	-
1992	30.7%	10,609	-
1993	30.6%	10,618	-
1994	30.9%	10,521	-
1995	30.7%	10,587	-
1996	30.7%	10,602	-
1997	30.8%	10,570	-
1998	30.7%	10,581	-
1999	30.6%	10,618	-
2000	30.7%	10,600	-
2001	31.1%	10,471	-
2002	31.1%	10,473	-
2003	31.3%	10,396	-
2004	31.3%	10,421	-
2005	31.5%	10,405	-
2006	31.7%	10,333	-
2007	31.8%	10,383	-
2008	31.8%	10,347	-
2009	32.2%	10,230	-
2010	32.3%	10,570	-
2011	32.1%	10,633	-0.6%
2012	32.4%	10,516	0.3%
2013	32.7%	10,436	0.4%
2014	33.0%	10,354	0.5%
2015	33.1%	10,300	0.5%
2016	33.2%	10,292	0.4%
2017	33.1%	10,310	0.4%
2018	33.1%	10,305	0.3%
2019	33.1%	10,300	0.3%
2020	33.1%	10,301	0.3%
2021	33.2%	10,282	0.3%
2022	33.2%	10,277	0.2%
2023	33.2%	10,291	0.2%
2024	33.2%	10,281	0.2%
2025	33.1%	10,294	0.2%
2026	33.2%	10,266	0.2%
2027	33.3%	10,247	0.2%
2028	33.4%	10,218	0.2%

2029	33.5%	10,177	0.2%
2030	33.6%	10,148	0.2%
2031	33.7%	10,112	0.2%
2032	33.8%	10,088	0.2%
2033	33.9%	10,075	0.2%
2034	33.9%	10,067	0.2%
2035	34.0%	10,045	0.2%

Transmission and Distribution (T&D) losses as a:

Percent of Electric Generator Fuel Input	2.6%
Percent of Net Electricity Generated (4)	7.4%

Note(s): 1) Use these values to convert primary energy of electric generator fuel input to delivered energy. 2) Accounts for fuel conversion losses, plant use of electricity, and T&D losses. 3) Use these values to convert delivered electric energy to primary energy. 4) After fuel conversion losses and plant use of electricity.

Source(s): EIA, Annual Energy Outlook 2012 Early Release, Jan. 2012, Table A2 for generator consumption and Table A8 for electricity sales; EIA, Annual Energy Review 2010, Oct. 2011, Figure 8.0, p. 233 for T&D losses; and EIA, State Energy Consumption Database, June 2011 for Electricity Consumption and Generator Fuel Consumption.