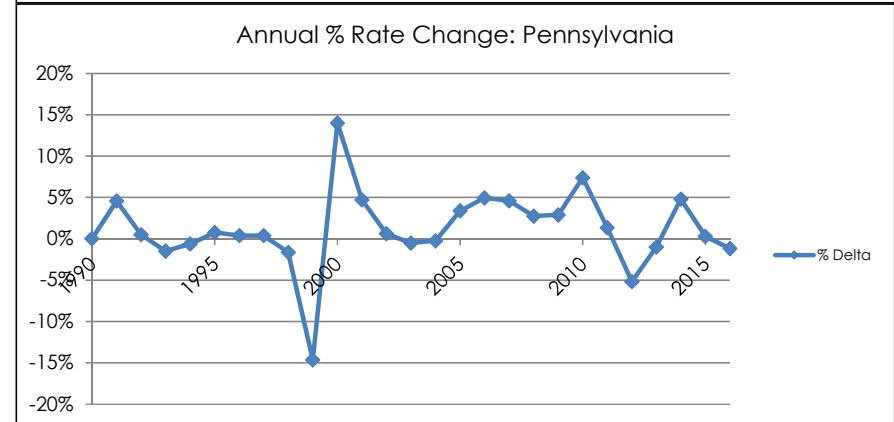
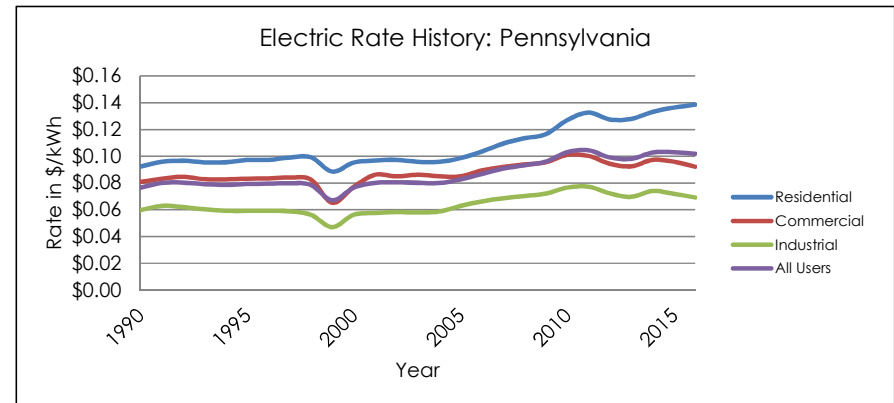


ELECTRICITY RATE HSITORICAL ANALYSIS 1990-2016 PENNSYLVANIA



| Year | Electric Rate in \$/kWh | | | | % Delta |
|------|-------------------------|------------|------------|-----------|---------|
| | Residential | Commercial | Industrial | All Users | |
| 1990 | 0.092 | 0.081 | 0.060 | 0.077 | - |
| 1991 | 0.096 | 0.083 | 0.063 | 0.080 | 4.6% |
| 1992 | 0.097 | 0.085 | 0.062 | 0.080 | 0.5% |
| 1993 | 0.096 | 0.083 | 0.060 | 0.079 | -1.5% |
| 1994 | 0.096 | 0.083 | 0.059 | 0.079 | -0.6% |
| 1995 | 0.097 | 0.083 | 0.059 | 0.079 | 0.8% |
| 1996 | 0.097 | 0.083 | 0.059 | 0.080 | 0.4% |
| 1997 | 0.099 | 0.084 | 0.059 | 0.080 | 0.4% |
| 1998 | 0.099 | 0.083 | 0.056 | 0.079 | -1.6% |
| 1999 | 0.089 | 0.065 | 0.047 | 0.067 | -14.6% |
| 2000 | 0.095 | 0.077 | 0.056 | 0.077 | 14.0% |
| 2001 | 0.097 | 0.086 | 0.058 | 0.080 | 4.7% |
| 2002 | 0.097 | 0.085 | 0.058 | 0.081 | 0.6% |
| 2003 | 0.096 | 0.086 | 0.058 | 0.080 | -0.5% |
| 2004 | 0.096 | 0.085 | 0.059 | 0.080 | -0.2% |
| 2005 | 0.099 | 0.085 | 0.063 | 0.083 | 3.4% |
| 2006 | 0.104 | 0.089 | 0.066 | 0.087 | 5.0% |
| 2007 | 0.110 | 0.092 | 0.069 | 0.091 | 4.6% |
| 2008 | 0.114 | 0.094 | 0.070 | 0.093 | 2.8% |
| 2009 | 0.117 | 0.096 | 0.072 | 0.096 | 2.9% |
| 2010 | 0.127 | 0.101 | 0.077 | 0.103 | 7.4% |
| 2011 | 0.133 | 0.100 | 0.077 | 0.105 | 1.4% |
| 2012 | 0.128 | 0.094 | 0.072 | 0.099 | -5.2% |
| 2013 | 0.128 | 0.093 | 0.070 | 0.098 | -1.0% |
| 2014 | 0.133 | 0.097 | 0.074 | 0.103 | 4.8% |
| 2015 | 0.136 | 0.096 | 0.072 | 0.103 | 0.3% |
| 2016 | 0.139 | 0.092 | 0.069 | 0.102 | -1.2% |



| All Users Summary | Annual % Increase | Net % Increase | Net Increase (\$/kWh) |
|------------------------------|-------------------|----------------|-----------------------|
| 20 Year Increase (1997-2016) | 1.22% | 27.53% | 0.022 |
| 10 Year Increase (2007-2016) | 1.29% | 12.22% | 0.011 |
| 5 Year Increase (2012-2016) | 0.70% | 2.83% | 0.003 |

Notes and Sources

-Rate growth statistics based on "Total Electric Industry" in each state as defined by United States Energy Information Administration
 -Past rates may or may not be a reflection of future rates and trends
 -US EIA Report: 1990 - 2016 Average Price by State by Provider (EIA-861), Release Date: November 6, 2017