Table 1: U.S. Energy Security Risk Index under Kerry-Lieberman

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Index of U.S. Energy Security** | **100** | **99.9** | **94.3** | **89.8** | **87.9** | **84.7** | **82** | **81** | **81.2** | **75.9** | **74.2** | **73.4** | **73.9** | **73.9** | **72.6** | **72.6** | **75.9** | **77.4** | **76.3** | **79.6** | **87** | **83.9** | **81.6** | **81.1** | **86.1** | **94.3** | **96.4** | **96.6** | **99.8** | **83.7** | **85.2** | **88.5** | **90.8** | **92.5** | **93.9** | **95.3** | **95.9** | **96.2** | **96.4** | **96.0** | **95.9** | **94.9** | **93.6** | **92.7** | **92.1** | **91.3** | **91.0** | **90.2** | **89.8** | **89.5** | **89.3** |
| Geopolitical Sub-index | 100 | 99.2 | 93.6 | 90.6 | 89 | 86.2 | 81.1 | 79.6 | 80.2 | 75.2 | 72.7 | 71.8 | 72.4 | 71.8 | 70.2 | 69.5 | 72.2 | 71.5 | 69.7 | 72.8 | 81 | 78.2 | 76 | 76.3 | 82.5 | 90.2 | 93.4 | 94.9 | 101.2 | 80.5 | 83.1 | 87.3 | 90.3 | 92.9 | 95.0 | 97.2 | 98.2 | 98.9 | 99.3 | 99.1 | 99.2 | 98.0 | 96.4 | 95.2 | 94.6 | 93.6 | 93.4 | 92.5 | 92.2 | 92.2 | 92.1 |
| Economic Sub-index | 100 | 99.5 | 91.6 | 85 | 82.5 | 78.8 | 71.8 | 72 | 71.1 | 68.7 | 69.1 | 66.8 | 67.1 | 67.2 | 66 | 66.8 | 71 | 73.1 | 68.7 | 74.1 | 83.1 | 78.6 | 75.7 | 76.8 | 83 | 93.9 | 97.8 | 99.1 | 105.7 | 78.7 | 81.3 | 87.6 | 91.7 | 95.4 | 98.0 | 100.6 | 102.1 | 103.1 | 103.7 | 103.5 | 103.8 | 102.6 | 100.9 | 99.6 | 98.9 | 98.0 | 98.0 | 97.3 | 97.5 | 98.1 | 98.5 |
| Reliability Sub-index | 100 | 103.9 | 99.5 | 92.5 | 87.6 | 83 | 87.8 | 86 | 85.8 | 74.5 | 73 | 73.9 | 73.8 | 72.7 | 70.2 | 69.5 | 72.9 | 74.4 | 79.3 | 80.5 | 90.8 | 88.9 | 85.9 | 81.7 | 86.9 | 98.3 | 100.1 | 97.2 | 98.5 | 90.2 | 91.1 | 92.5 | 94.1 | 94.9 | 95.9 | 96.9 | 97.5 | 97.7 | 97.8 | 97.6 | 97.4 | 96.7 | 95.9 | 95.5 | 95.2 | 94.8 | 94.5 | 94.0 | 93.6 | 93.4 | 93.2 |
| Environmental Sub-index | 100 | 97.7 | 94.1 | 92.9 | 94.5 | 93.1 | 92.8 | 91.6 | 93.3 | 89.2 | 85.2 | 85 | 86.4 | 88.4 | 88.3 | 89.1 | 91.9 | 95.5 | 94.4 | 97.1 | 98.2 | 95.5 | 94.8 | 93.9 | 95.5 | 96.7 | 95.3 | 95 | 90.4 | 89.4 | 88.4 | 87.9 | 86.9 | 85.3 | 84.0 | 82.9 | 81.6 | 80.4 | 79.4 | 78.4 | 77.6 | 76.9 | 76.4 | 75.9 | 75.3 | 74.3 | 73.5 | 72.2 | 70.6 | 68.9 | 67.3 |
| **Global Fuels Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Security of World Oil Reserves | 100 | 101.7 | 98.3 | 104.1 | 106 | 112.8 | 109 | 104 | 100.5 | 109.3 | 114.1 | 125.7 | 135.5 | 132.6 | 132.5 | 128.1 | 127.9 | 128.9 | 125.6 | 124.9 | 128.1 | 127.3 | 124.1 | 90.9 | 92 | 87.2 | 87.1 | 86.3 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 |
| 2 Security of World Oil Production | 100 | 103.5 | 95.5 | 98.3 | 94.8 | 92 | 89.7 | 79.4 | 82.7 | 79.3 | 72.7 | 74 | 79.4 | 77.9 | 74.8 | 71 | 69.7 | 69.9 | 67.8 | 67.7 | 68.6 | 69.3 | 66 | 68.8 | 73 | 72.6 | 73.1 | 73.2 | 75.7 | 73.5 | 73.5 | 73.7 | 73.9 | 74.0 | 74.2 | 74.3 | 74.6 | 74.8 | 75.0 | 75.2 | 75.4 | 75.0 | 74.7 | 74.3 | 74.0 | 73.6 | 73.6 | 73.6 | 73.6 | 73.5 | 73.5 |
| 3 Security of World Natural Gas Reserves | 100 | 106.2 | 120.4 | 130.9 | 142.3 | 137.3 | 125.7 | 102.8 | 97 | 85.6 | 56 | 69.9 | 77.9 | 80.5 | 81.1 | 80.4 | 81.9 | 81.6 | 83.2 | 85.7 | 92.4 | 91.6 | 88.5 | 86.7 | 91.9 | 91.9 | 90.8 | 91.3 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 |
| 4 Security of World Natural Gas Production | 100 | 105.2 | 114.5 | 136.6 | 138.8 | 147.7 | 143.2 | 115.4 | 118.9 | 91.5 | 80.5 | 84.1 | 75 | 72.6 | 68.2 | 64.5 | 63.4 | 63 | 66.8 | 72 | 75.6 | 76.8 | 75.6 | 76.2 | 81.1 | 81.6 | 83.2 | 83.9 | 78.7 | 83.7 | 83.7 | 84.3 | 84.8 | 85.3 | 85.8 | 86.3 | 86.4 | 86.4 | 86.5 | 86.8 | 86.9 | 86.7 | 86.7 | 86.9 | 86.9 | 86.9 | 87.5 | 88.0 | 88.5 | 89.0 | 89.4 |
| 5 Security of World Coal Reserves | 100 | 100.9 | 101.1 | 107 | 107.3 | 107.3 | 100.2 | 87.7 | 87.7 | 63.2 | 49.4 | 52.5 | 56.6 | 54 | 51.4 | 48.2 | 48.2 | 48.2 | 47.6 | 49.8 | 53.5 | 53.4 | 51.6 | 51.5 | 60.7 | 59.6 | 59.8 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 |
| 6 Security of World Coal Production | 100 | 97.8 | 98.7 | 103.5 | 105.6 | 104.8 | 99.1 | 91 | 94.5 | 68 | 60.8 | 66.4 | 69.8 | 75 | 77 | 79.2 | 79.1 | 76.2 | 66.5 | 65.5 | 63.9 | 66.8 | 67.1 | 78.4 | 89 | 95.4 | 101.9 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 |
| **Fuel Import Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Security of U.S. Petroleum Imports | 100 | 95.5 | 73.6 | 76.1 | 77 | 67.6 | 79.7 | 73.9 | 81.7 | 83.7 | 76.9 | 73.3 | 80.1 | 84.2 | 82.4 | 76 | 77.4 | 82 | 82.8 | 80.8 | 85.1 | 90.2 | 82.7 | 90.7 | 99.3 | 101.5 | 101.3 | 98.5 | 98.6 | 84.0 | 82.3 | 82.6 | 82.7 | 82.3 | 82.7 | 82.5 | 82.2 | 81.1 | 79.8 | 78.3 | 76.9 | 74.4 | 70.9 | 67.7 | 65.4 | 62.9 | 62.1 | 61.5 | 60.5 | 60.9 | 61.3 |
| 8 Security of U.S. Natural Gas Imports | 100 | 96.7 | 117.2 | 141 | 122.7 | 148.1 | 116 | 117.3 | 149.5 | 109.9 | 108.7 | 125.1 | 118.8 | 126.4 | 129.4 | 125 | 122.5 | 121.7 | 139.9 | 169.8 | 174.7 | 188.6 | 171.9 | 166.3 | 182.1 | 194.5 | 192.4 | 199.2 | 149.6 | 139.0 | 124.0 | 108.1 | 98.5 | 103.9 | 106.1 | 111.1 | 115.5 | 114.8 | 109.7 | 102.1 | 93.9 | 77.3 | 61.1 | 58.5 | 54.9 | 47.4 | 39.1 | 28.7 | 15.7 | 2.7 | -10.6 |
| 9 Oil & Natural Gas Import Expenditures | 100 | 92 | 65.7 | 55.2 | 55.7 | 49.3 | 32.7 | 38.4 | 37.2 | 44.1 | 51.7 | 40.9 | 41.2 | 40.8 | 40.2 | 41.2 | 53.9 | 51.4 | 36.7 | 49.5 | 88 | 76.8 | 72 | 93.3 | 121.3 | 164.9 | 181.1 | 191.2 | 211.6 | 91.3 | 108.8 | 137.4 | 158.0 | 175.7 | 189.9 | 204.1 | 211.0 | 216.0 | 218.4 | 217.0 | 218.6 | 212.0 | 201.9 | 194.1 | 190.3 | 184.5 | 184.0 | 181.5 | 181.4 | 185.2 | 188.3 |
| 10 Oil & Natural Gas Import Expenditures per GDP | 100 | 89.7 | 65.4 | 52.5 | 49.4 | 42 | 26.9 | 30.7 | 28.5 | 32.6 | 37.6 | 29.8 | 29 | 28 | 26.5 | 26.5 | 33.4 | 30.5 | 20.8 | 26.8 | 45.8 | 39.5 | 36.4 | 46 | 57.8 | 76.2 | 81.5 | 84.2 | 86.4 | 38.0 | 45.2 | 56.1 | 63.3 | 68.3 | 72.2 | 75.7 | 76.3 | 76.1 | 75.0 | 72.7 | 71.6 | 68.1 | 63.5 | 59.3 | 56.6 | 53.5 | 52.2 | 50.4 | 49.5 | 49.6 | 49.5 |
| **Energy Expenditure Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Energy Expenditures per GDP | 100 | 101.9 | 97.6 | 87.9 | 82.4 | 77.4 | 64 | 62.3 | 59.9 | 59.4 | 60.6 | 58.4 | 55.8 | 54.9 | 53.1 | 51.7 | 53.3 | 50.7 | 44.7 | 44.6 | 52.2 | 51 | 47.1 | 51.3 | 55.4 | 62.7 | 65.5 | 66.5 | 73.2 | 52.6 | 50.9 | 55.2 | 56.9 | 59.8 | 60.7 | 61.4 | 62.0 | 62.0 | 61.8 | 61.3 | 60.8 | 59.8 | 58.8 | 57.7 | 56.4 | 55.9 | 55.6 | 55.0 | 55.5 | 55.7 | 55.4 |
| 12 Energy Expenditures per Household | 100 | 100.4 | 93.2 | 86.9 | 85.5 | 82.1 | 69.3 | 68.5 | 67.3 | 67.7 | 69.9 | 66.5 | 65 | 64.8 | 64.5 | 63.6 | 67.3 | 66.1 | 59.8 | 61.5 | 74 | 72 | 69 | 76.4 | 84.7 | 97.2 | 103 | 105.8 | 116.9 | 81.2 | 79.6 | 89.1 | 94.0 | 100.8 | 103.7 | 106.2 | 108.7 | 110.2 | 111.6 | 112.4 | 113.1 | 113.0 | 112.9 | 112.9 | 112.3 | 113.2 | 114.4 | 114.9 | 117.8 | 120.0 | 121.4 |
| 13 Retail Electricity Prices | 100 | 106.9 | 111.5 | 111.5 | 106.2 | 106.2 | 103.9 | 100 | 96.4 | 94.4 | 92.5 | 91.8 | 90.7 | 90.1 | 88 | 86 | 84 | 82.5 | 80.3 | 77.9 | 78.3 | 81.8 | 79.4 | 80.3 | 79.9 | 82.8 | 87.7 | 87.6 | 92.2 | 88.3 | 80.4 | 83.4 | 83.6 | 84.0 | 85.0 | 85.5 | 88.2 | 89.9 | 90.8 | 91.6 | 92.3 | 92.4 | 91.8 | 92.0 | 92.5 | 93.0 | 95.0 | 98.4 | 101.8 | 105.9 | 110.8 |
| 14 Crude Oil Prices | 100 | 99 | 84.9 | 71.2 | 67.7 | 61.4 | 30.4 | 38.6 | 29.8 | 36.1 | 41.5 | 34.2 | 32.9 | 28.5 | 27 | 29.2 | 34.7 | 30.4 | 19.6 | 28.2 | 44 | 34.1 | 36.8 | 41.7 | 52.9 | 69.9 | 81.2 | 90.8 | 122.7 | 51.7 | 65.2 | 82.5 | 96.3 | 108.2 | 118.1 | 128.4 | 134.7 | 140.2 | 145.6 | 148.0 | 151.5 | 151.6 | 150.7 | 149.3 | 150.3 | 150.4 | 151.9 | 151.1 | 153.2 | 155.7 | 158.0 |
| **Price & Market Volatility Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 Crude Oil Price Volatility | 100 | 127.2 | 128.2 | 89.6 | 67.9 | 48.9 | 94.4 | 101.8 | 106.2 | 49.5 | 50.7 | 49.1 | 40.3 | 34 | 20.8 | 21.6 | 24 | 27.1 | 48.9 | 55 | 87.4 | 83 | 66.5 | 40.3 | 44.7 | 83.7 | 97.5 | 90 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 | 129.3 |
| 16 Energy Expenditure Volatility | 100 | 110.8 | 94.1 | 62 | 43.8 | 27.5 | 50.2 | 48.6 | 40.6 | 7.5 | 15.4 | 24.4 | 20.6 | 14.1 | 6.4 | 3.8 | 14.8 | 14.2 | 29.2 | 23.2 | 57 | 45 | 49.5 | 35.2 | 54 | 75.6 | 72.2 | 55.1 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 |
| 17 World Oil Refinery Utilization | 100 | 93.3 | 91.8 | 97 | 101.9 | 102.5 | 112.3 | 113.2 | 120.3 | 123.5 | 121.1 | 122.9 | 124.2 | 121.9 | 119.3 | 122.3 | 126.3 | 127.3 | 126.5 | 120 | 125.1 | 124.7 | 120.9 | 127.8 | 132.4 | 134.7 | 133.8 | 132.6 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 |
| 18 Petroleum Stock Levels | 100 | 88.1 | 87.1 | 85.3 | 82.5 | 84.3 | 83.2 | 84.4 | 88.3 | 89.2 | 85.3 | 84.1 | 87.3 | 85.2 | 87.3 | 92.3 | 99.1 | 97.2 | 93.5 | 106.4 | 109.6 | 100.8 | 103.9 | 104 | 102.9 | 99.8 | 97.9 | 101.1 | 91.4 | 88.1 | 92.6 | 94.1 | 94.6 | 94.5 | 93.8 | 92.9 | 91.9 | 91.4 | 91.1 | 90.8 | 91.1 | 90.7 | 90.7 | 91.3 | 91.7 | 92.2 | 92.7 | 93.1 | 93.6 | 93.9 | 94.1 |
| **Energy Use Intensity Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 Energy Consumption per Capita | 100 | 96.6 | 91.8 | 90.9 | 94.6 | 93.5 | 93 | 95.1 | 98.5 | 100.1 | 98.7 | 97.3 | 97.5 | 98.1 | 98.8 | 99.7 | 101.8 | 101.2 | 100.5 | 101 | 102.2 | 98.4 | 99 | 98.4 | 99.6 | 98.8 | 97.3 | 98 | 96.0 | 92.7 | 92.4 | 93.0 | 92.9 | 92.0 | 90.9 | 89.7 | 88.8 | 88.0 | 87.4 | 86.9 | 86.6 | 86.2 | 85.9 | 85.7 | 85.5 | 85.0 | 84.5 | 84.0 | 83.4 | 82.7 | 82.0 |
| 20 Energy Intensity | 100 | 95.1 | 93.1 | 89 | 87.2 | 83.5 | 81 | 80.9 | 81.3 | 80.5 | 78.8 | 78.9 | 77.5 | 76.8 | 75.2 | 74.9 | 74.6 | 71.9 | 69.2 | 67.1 | 65.9 | 63.4 | 63.3 | 62 | 61.2 | 59.4 | 57.5 | 57.3 | 55.8 | 56.0 | 55.3 | 54.0 | 52.7 | 51.0 | 49.7 | 48.3 | 47.1 | 45.9 | 44.8 | 43.8 | 42.9 | 42.1 | 41.2 | 40.4 | 39.5 | 38.6 | 37.8 | 37.0 | 36.2 | 35.3 | 34.5 |
| 21 Petroleum Intensity | 100 | 91 | 87.9 | 83.6 | 80.6 | 77.1 | 77.6 | 76.7 | 76.7 | 74.1 | 71.3 | 70 | 69.1 | 67.6 | 66.5 | 64.6 | 64.6 | 62.6 | 61.1 | 59.9 | 58.2 | 57.5 | 56.5 | 56 | 56.1 | 54.6 | 52.6 | 51.2 | 47.6 | 50.7 | 49.9 | 48.7 | 47.4 | 46.0 | 44.6 | 43.1 | 41.6 | 40.3 | 39.0 | 37.9 | 37.0 | 35.9 | 35.0 | 34.1 | 33.4 | 32.6 | 31.9 | 31.3 | 30.6 | 29.9 | 29.3 |
| 22 Household Energy Efficiency | 100 | 93.1 | 93.6 | 92.1 | 93.3 | 92.2 | 90.5 | 90.7 | 93.7 | 95.4 | 90.2 | 91.8 | 90.5 | 93.7 | 92.3 | 93.1 | 97 | 93.1 | 91.9 | 93.4 | 96.8 | 93.8 | 99.4 | 100.3 | 99.1 | 100.1 | 94.6 | 97.8 | 97.5 | 97.5 | 97.6 | 96.2 | 95.3 | 92.4 | 91.3 | 90.0 | 89.2 | 88.2 | 87.8 | 87.4 | 87.0 | 86.3 | 85.6 | 85.2 | 85.1 | 84.3 | 83.7 | 83.1 | 82.4 | 81.6 | 80.7 |
| 23 Commercial Energy Efficiency | 100 | 97.2 | 96.4 | 94.1 | 93.1 | 88.2 | 85 | 85.1 | 87.1 | 89.1 | 87.8 | 86.9 | 84.5 | 84.2 | 83.4 | 84.3 | 84 | 83.9 | 82.6 | 82 | 84.6 | 83.2 | 83 | 81.6 | 81.6 | 81 | 78.9 | 79.8 | 79.3 | 77.8 | 80.2 | 80.3 | 80.2 | 79.4 | 79.2 | 78.9 | 78.5 | 78.2 | 77.9 | 77.8 | 77.8 | 77.7 | 77.6 | 77.4 | 77.2 | 76.7 | 76.5 | 76.0 | 75.4 | 75.0 | 74.2 |
| 24 Industrial Energy Efficiency | 100 | 94.6 | 89.7 | 86.8 | 85.9 | 82.7 | 80.3 | 79.4 | 78.8 | 79.8 | 80.2 | 80.5 | 81.2 | 78.7 | 76.8 | 74.3 | 73.1 | 68.7 | 64.3 | 61.5 | 58.8 | 57.5 | 57.5 | 56.6 | 56.8 | 53.2 | 52 | 51.3 | 50.4 | 55.4 | 54.1 | 52.1 | 50.3 | 48.7 | 47.3 | 46.2 | 45.0 | 43.8 | 42.8 | 42.0 | 41.5 | 41.0 | 40.6 | 40.2 | 39.7 | 39.2 | 38.8 | 38.6 | 38.3 | 37.9 | 37.5 |
| **Electric Power Sector Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 Electricity Capacity Diversity | 100 | 99.9 | 102.5 | 102.6 | 100.8 | 97.1 | 94.7 | 93.3 | 87.3 | 90.9 | 87.4 | 83.5 | 83.2 | 82.9 | 81 | 79 | 79.7 | 81.4 | 79.6 | 77.1 | 77 | 79.2 | 84 | 90.8 | 91.5 | 93.3 | 92.9 | 91.7 | 86.0 | 86.4 | 83.8 | 81.3 | 78.4 | 72.4 | 71.8 | 71.5 | 70.7 | 69.9 | 68.7 | 67.3 | 65.9 | 65.8 | 66.2 | 66.6 | 66.0 | 66.5 | 64.7 | 62.9 | 61.0 | 59.0 | 57.6 |
| 26 Electricity Capacity Margins | 100 | 106.9 | 119.5 | 114.3 | 108 | 112 | 113.2 | 106.8 | 96.4 | 92.6 | 91.2 | 89.9 | 91.6 | 94.4 | 100.4 | 99.4 | 107.3 | 115.9 | 131.3 | 128.6 | 119.6 | 129.5 | 114.5 | 101 | 89.9 | 122 | 116.7 | 113.8 | 116.7 | 117.0 | 123.6 | 129.4 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 | 139.7 |
| 27 Electricity Transmission Line Mileage | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103.8 | 104.2 | 103 | 106.6 | 108.5 | 115.6 | 113.3 | 116.1 | 119.3 | 122.5 | 121.2 | 122.2 | 125.9 | 123.8 | 122.5 | 131.5 | 135 | 131.9 | 128.5 | 129.3 | 130.0 | 130.7 | 132.5 | 134.2 | 135.9 | 137.6 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 | 139.2 |
| **Transportation Sector Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 Passenger Car Average MPG | 100 | 97 | 94.7 | 93.6 | 92 | 91.4 | 92 | 88.9 | 85.1 | 84.2 | 79.2 | 75.8 | 76.2 | 78 | 77.3 | 75.8 | 75.5 | 74.4 | 74.1 | 74.8 | 73.1 | 72.4 | 72.7 | 72.1 | 71.1 | 72.4 | 71.1 | 71.1 | 66.0 | 65.5 | 65.1 | 64.5 | 63.0 | 61.2 | 59.2 | 57.1 | 55.2 | 53.5 | 52.2 | 51.2 | 50.5 | 50.0 | 49.7 | 49.5 | 49.4 | 49.2 | 49.1 | 48.9 | 48.8 | 48.7 | 48.6 |
| 29 Transportation VMT per GDP | 100 | 99.3 | 103.9 | 103 | 100 | 99.1 | 99 | 100.4 | 101.7 | 101.6 | 102 | 103.6 | 103.7 | 103 | 101.6 | 101.9 | 101.3 | 99.6 | 98.3 | 96 | 94.1 | 94.8 | 95.1 | 93.9 | 93 | 91 | 89.4 | 87.9 | 86.4 | 90.7 | 90.4 | 88.0 | 86.2 | 84.2 | 82.9 | 81.6 | 80.5 | 79.4 | 78.3 | 77.3 | 76.9 | 76.6 | 76.1 | 75.6 | 75.1 | 74.7 | 74.3 | 74.0 | 73.3 | 72.6 | 72.3 |
| 30 Transportation Non-Petroleum Fuels | 100 | 99.8 | 100 | 100.9 | 100.6 | 100.9 | 101.2 | 100.9 | 100.3 | 100.2 | 99.9 | 100.3 | 100.4 | 100 | 99.6 | 99.5 | 99.8 | 99.4 | 100.4 | 100.4 | 100.4 | 100.4 | 100 | 100.1 | 100 | 99.6 | 98.8 | 97.6 | 98.3 | 95.9 | 94.3 | 93.4 | 93.5 | 93.5 | 93.5 | 93.1 | 92.6 | 92.2 | 91.6 | 91.1 | 90.4 | 89.9 | 88.9 | 88.2 | 88.1 | 87.7 | 87.4 | 87.0 | 86.5 | 86.4 | 86.3 |
| **Environmental Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 Energy-Related Carbon Dioxide Emissions | 100 | 78.4 | 34.5 | 28.1 | 72.3 | 70.2 | 72 | 100.8 | 140.4 | 154.4 | 144.9 | 136.4 | 154.2 | 173.1 | 187.3 | 197.1 | 230.6 | 245.4 | 252.2 | 263.4 | 295.5 | 277.4 | 289.2 | 297.7 | 315.4 | 317 | 304.7 | 319.8 | 294.4 | 268.4 | 264.0 | 273.3 | 274.1 | 263.3 | 255.5 | 249.1 | 239.6 | 233.5 | 228.1 | 222.1 | 217.7 | 213.6 | 210.1 | 208.1 | 203.1 | 192.1 | 184.0 | 166.5 | 144.2 | 119.5 | 95.5 |
| 32 Energy-Related Carbon Dioxide Emissions per Capita | 100 | 93.2 | 82.1 | 79.3 | 86.9 | 85 | 83.8 | 88.1 | 94.7 | 95.9 | 91.8 | 87.7 | 88.8 | 90.2 | 90.7 | 90.4 | 94.7 | 95.2 | 94.3 | 94.2 | 98 | 92.8 | 93 | 92.8 | 94.2 | 92.7 | 88.9 | 89.5 | 83.5 | 77.9 | 75.7 | 75.6 | 74.2 | 71.3 | 68.8 | 66.6 | 64.1 | 62.1 | 60.2 | 58.3 | 56.7 | 55.2 | 53.7 | 52.5 | 51.0 | 48.9 | 47.2 | 44.6 | 41.7 | 38.7 | 35.9 |
| 33 Energy-Related Carbon Dioxide Emissions Intensity | 100 | 95.1 | 91.9 | 87.2 | 85.9 | 82.3 | 79.7 | 79.9 | 80.3 | 78.7 | 76.5 | 75.9 | 74.9 | 74.3 | 72.5 | 71.5 | 71.3 | 69.3 | 66.9 | 64.5 | 63.9 | 62.1 | 61.7 | 60.7 | 59.6 | 57.9 | 55.7 | 55.3 | 54.4 | 54.6 | 53.3 | 51.7 | 50.1 | 48.0 | 46.5 | 45.1 | 43.6 | 42.2 | 40.8 | 39.5 | 38.3 | 37.2 | 36.2 | 35.1 | 34.0 | 32.7 | 31.6 | 30.3 | 28.9 | 27.4 | 26.0 |
| 34 Electricity non-CO2 Generation Share | 100 | 99.1 | 87.5 | 85.2 | 85.7 | 85.3 | 81 | 83.7 | 82.8 | 80.9 | 76.1 | 74.1 | 76.4 | 77.4 | 77.8 | 74.1 | 73.4 | 77 | 78.9 | 76.8 | 80.2 | 82.5 | 80 | 80.8 | 81.1 | 82.8 | 80.7 | 83.5 | 78.9 | 76.5 | 71.9 | 68.6 | 65.6 | 64.5 | 63.0 | 62.7 | 60.8 | 59.3 | 57.7 | 56.0 | 54.1 | 53.2 | 52.7 | 52.5 | 51.1 | 50.1 | 48.7 | 46.6 | 44.4 | 42.1 | 40.0 |
| **Research and Development Metrics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 Industrial Energy R&D Expenditures | 100 | 112.8 | 113.9 | 120.3 | 128.4 | 160.8 | 199.1 | 190.4 | 213.3 | 219.6 | 219.7 | 215.9 | 294.8 | 380.6 | 412.5 | 526.9 | 579.8 | 911 | 766.4 | ###### | 827.3 | 753.5 | 631.9 | 574.3 | 496 | 496 | 496 | 496 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 | 496.0 |
| 36 Federal Energy & Science R&D Expenditures | 100 | 112.1 | 129.1 | 150.3 | 160.2 | 172.1 | 186.1 | 200.3 | 206.1 | 198.1 | 195.6 | 185.6 | 190.5 | 215.1 | 219.7 | 227.7 | 252.8 | 271.1 | 286.4 | 277.8 | 288 | 262.6 | 260.6 | 256.4 | 263.5 | 278.3 | 294.2 | 250.9 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 | 242.7 |
| 37 Science & Engineering Degrees | 100 | 101.8 | 97.2 | 100.6 | 105.8 | 107.5 | 110 | 114.2 | 120.9 | 124 | 123.8 | 120.6 | 119 | 118.1 | 119.6 | 120.6 | 123.1 | 128.1 | 133 | 138.5 | 142.8 | 143.2 | 141.8 | 136.5 | 135.2 | 136.3 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 | 137.7 |