

Energy Portfolio Optim

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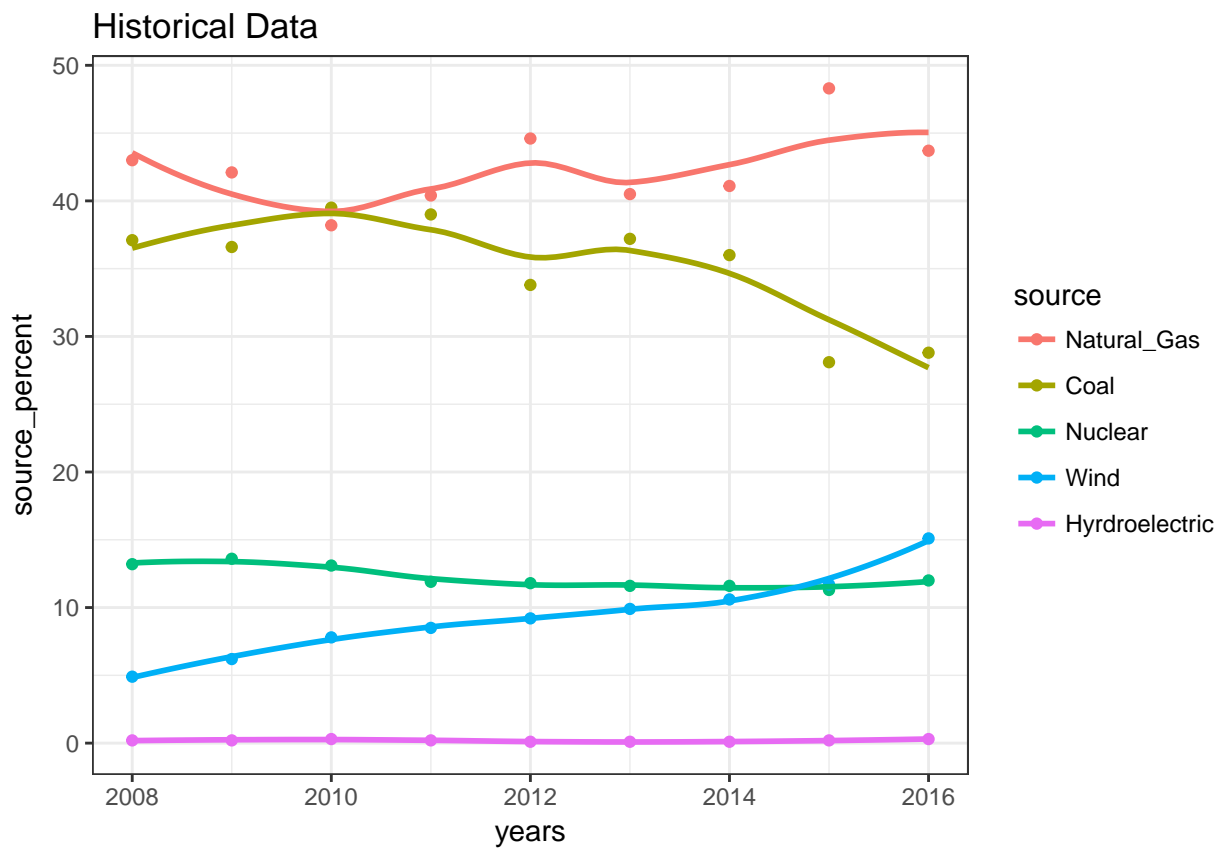


Table 1: Historical Energy Source Percent

| Fuel Types | Biomass | Natural_Gas | Gas-CC | Coal | Nuclear | Wind |
|-------------|---------|-------------|--------|-------|---------|-------|
| 2008_(%) | | 43.0 | | 37.1 | 13.2 | 4.9 |
| 2009_(%) | | 42.1 | | 36.6 | 13.6 | 6.2 |
| 2010_(%) | | 38.2 | | 39.5 | 13.1 | 7.8 |
| 2011_(%) | | 40.4 | | 39.0 | 11.9 | 8.5 |
| 2012_(%) | | 44.6 | | 33.8 | 11.8 | 9.2 |
| 2013_(%) | | 40.5 | | 37.2 | 11.6 | 9.9 |
| 2014_(%) | | 41.1 | | 36.0 | 11.6 | 10.6 |
| 2015_(%) | | 48.3 | | 28.1 | 11.3 | 11.7 |
| 2016_(%) | | 43.7 | | 28.8 | 12.0 | 15.1 |
| 2017_(%)_10 | 0.15 | 5.02 | 34.62 | 31.87 | 10.40 | 17.21 |

Table 2: Historical Energy Source Percent

| Fuel Types | Solar | Water | Net_DC_BLT | Other | Total | Total_MWh | Total_TWh |
|-------------|--------|--------|------------|--------|----------|----------------|-----------|
| 2008_(%) | | 0.2000 | | 1.6000 | 100.0000 | 308959455.0000 | 308.9595 |
| 2009_(%) | | 0.2000 | | 1.3000 | 100.0000 | 305432222.0000 | 305.4322 |
| 2010_(%) | | 0.3000 | | 1.1000 | 100.0000 | 316046338.0000 | 316.0463 |
| 2011_(%) | | 0.2000 | | 0.2000 | 100.0000 | 333874758.0000 | 333.8748 |
| 2012_(%) | | 0.1000 | 0.2000 | 0.3000 | 100.0000 | 324859701.0000 | 324.8597 |
| 2013_(%) | | 0.1000 | 0.5000 | 0.3000 | 100.0000 | 331624102.0000 | 331.6241 |
| 2014_(%) | | 0.1000 | 0.4000 | 0.3000 | 100.0000 | 340033353.0000 | 340.0334 |
| 2015_(%) | | 0.2000 | 0.1000 | 0.3000 | 100.0000 | 347522948.0000 | 347.5229 |
| 2016_(%) | 0.2000 | 0.3000 | -0.2000 | 0.2000 | 100.0000 | 351547782.0000 | 351.5478 |
| 2017_(%)_10 | 0.6400 | 0.2600 | -0.1900 | 0.0100 | 100.0000 | 302171742.0000 | 302.1717 |

