

# Newington Energy, NH

## Facility Information

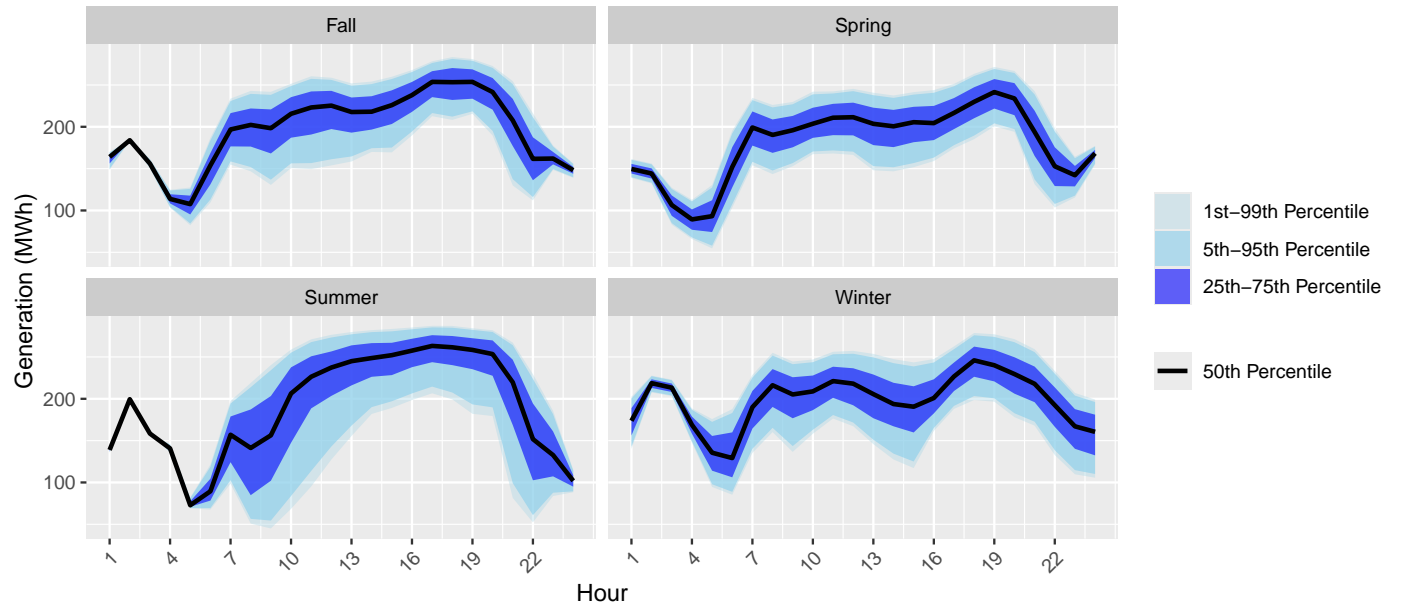
Facility ID: **55661**  
Unit ID: **1**  
State: **New Hampshire**  
County: **Rockingham County**  
Operating Status: **Operating**  
Primary fuel type: **Pipeline Natural Gas**  
Associated generators - nameplate capacity (MW): **ST (234.3), GT-1 (185.6)**  
Historical hourly generation (MWh): **208 [0-391]**  
Historical data availability: **Low**

**Table 1:** Simulated probabilistic estimation of annual generation and emissions for Newington Energy power plant, NH (Unit ID: 1).

| Metric                                    | P01     | P05     | P10     | P25     | P50      | P75      | P90      | P95      | P99      |
|---|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Electricity generation (GWh)              | 1059.24 | 1099.03 | 1148.78 | 1281.81 | 1454.07  | 1591.85  | 1671.51  | 1698.09  | 1719.35  |
| CO <sub>2</sub> emissions (thousand tons) | 454.74  | 472.24  | 495.22  | 561.56  | 662.81   | 786.72   | 894.29   | 941.69   | 980.74   |
| NO <sub>x</sub> emissions (thousand lbs)  | 80.62   | 85.41   | 92.39   | 118.72  | 190.22   | 431.59   | 742.92   | 885.31   | 1003.60  |
| SO <sub>2</sub> emissions (thousand lbs)  | 6.78    | 7.09    | 7.50    | 8.76    | 11.14    | 15.76    | 21.57    | 23.92    | 25.87    |
| Heat input (thousand mmBtu)               | 8089.75 | 8352.29 | 8680.46 | 9557.63 | 10703.30 | 11635.16 | 12161.69 | 12336.20 | 12475.82 |

**Table 2:** Simulated probabilistic estimation of annual emission ratios for Newington Energy power plant, NH (Unit ID: 1) compared to simulated probabilistic estimation of annual emissions in the state.

| Metric                        | P01  | P05  | P10  | P25  | P50  | P75  | P90  | P95  | P99  |
|-------------------------------|------|------|------|------|------|------|------|------|------|
| CO <sub>2</sub> emissions (%) | 8.27 | 8.16 | 8.04 | 7.96 | 8.16 | 8.72 | 9.26 | 9.27 | 9.28 |
| NO <sub>x</sub> emissions (%) | 1.26 | 1.28 | 1.31 | 1.46 | 1.94 | 3.61 | 5.04 | 5.41 | 5.67 |
| SO <sub>2</sub> emissions (%) | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.16 | 0.20 | 0.22 | 0.23 |



**Figure 1:** Simulated probabilistic hourly electricity generation distribution across seasons, showing mean percentile ranges per hour for this facility unit.

Note: The emissions and generation tables and plot only include hours where EPA CAMD data was available for simulation; hours with missing data are excluded from calculations and plotting.