

Granite Ridge Energy, NH

Facility Information

Facility ID: **55170**
Unit ID: **0002**
State: **New Hampshire**
County: **Rockingham County**
Operating Status: **Operating**
Primary fuel type: **Pipeline Natural Gas**
Associated generators - nameplate capacity (MW): **STG (270), CT12 (260)**
Historical hourly generation (MWh): **193 [0-276]**
Historical data availability: **High**

Table 1: Simulated probabilistic estimation of annual generation and emissions for Granite Ridge Energy power plant, NH (Unit ID: 0002).

Metric	P01	P05	P10	P25	P50	P75	P90	P95	P99
Electricity generation (GWh)	1123.21	1198.35	1292.27	1498.72	1732.75	1906.29	1992.74	2020.81	2043.26
CO ₂ emissions (thousand tons)	666.04	715.30	778.90	922.00	1099.21	1280.42	1407.69	1481.71	1543.70
NO _x emissions (thousand lbs)	76.55	85.27	96.92	122.31	155.90	232.86	457.39	640.91	793.46
SO ₂ emissions (thousand lbs)	6.72	7.22	7.86	9.31	11.10	12.93	14.27	15.03	15.66
Heat input (thousand mmBtu)	13143.84	13865.40	14767.35	16615.84	18489.35	19870.18	20623.68	20899.64	21120.41

Table 2: Simulated probabilistic estimation of annual emission ratios for Granite Ridge Energy power plant, NH (Unit ID: 0002) compared to simulated probabilistic estimation of annual emissions in the state.

Metric	P01	P05	P10	P25	P50	P75	P90	P95	P99
CO ₂ emissions (%)	12.11	12.36	12.64	13.07	13.52	14.20	14.57	14.59	14.61
NO _x emissions (%)	1.20	1.28	1.38	1.50	1.59	1.95	3.10	3.91	4.48
SO ₂ emissions (%)	0.13	0.13	0.14	0.14	0.13	0.13	0.14	0.14	0.14

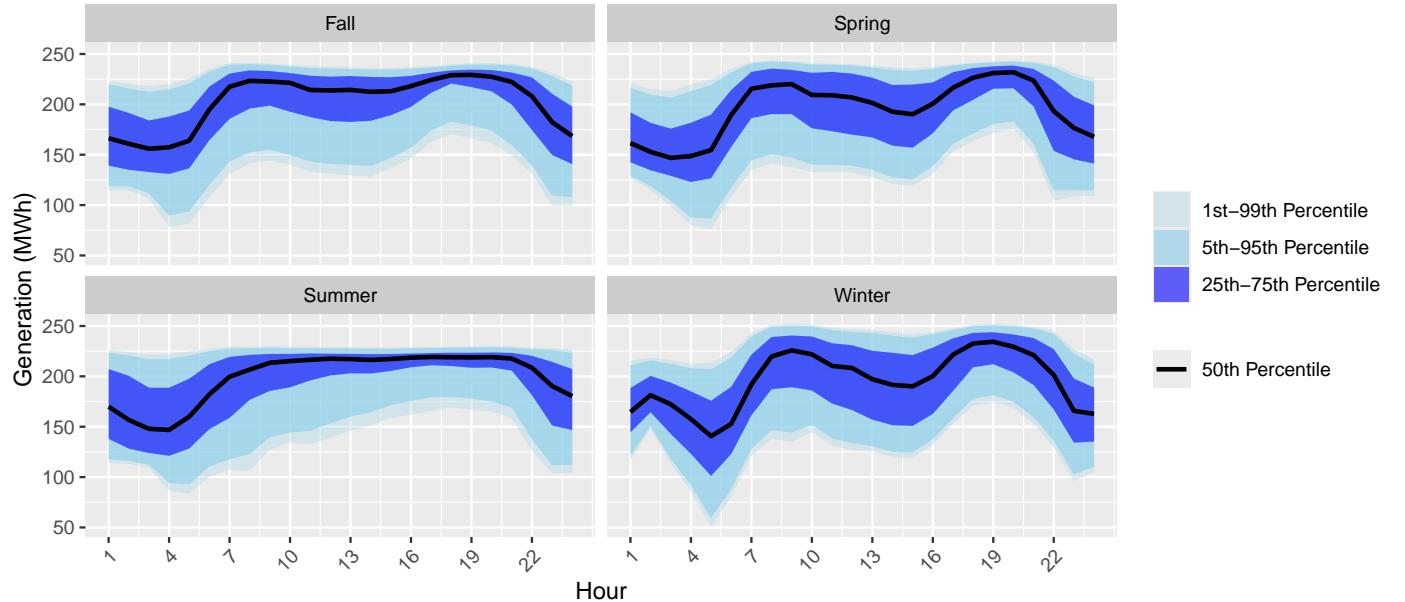


Figure 1: Simulated probabilistic hourly electricity generation distribution across seasons, showing mean percentile ranges per hour for this facility unit.

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.