

Granite Ridge Energy, NH

Facility Information

Facility ID: **55170**
Unit ID: **0001**
State: **New Hampshire**
County: **Rockingham County**
Operating Status: **Operating**
Primary fuel type: **Pipeline Natural Gas**
Associated generators - nameplate capacity (MW): **CT11 (260), STG (270)**
Historical hourly generation (MWh): **192 [0-272]**
Historical data availability: **High**

Table 1: Simulated probabilistic estimation of annual generation and emissions for Granite Ridge Energy power plant, NH (Unit ID: 0001).

Metric	P01	P05	P10	P25	P50	P75	P90	P95	P99
Electricity generation (GWh)	1144.22	1216.27	1306.32	1497.38	1713.19	1879.25	1963.04	1990.87	2013.13
CO ₂ emissions (thousand tons)	683.18	730.58	791.70	925.14	1093.36	1271.64	1391.78	1457.77	1512.94
NO _x emissions (thousand lbs)	77.09	85.71	97.34	122.89	156.42	236.30	410.34	543.81	655.14
SO ₂ emissions (thousand lbs)	6.90	7.38	7.99	9.34	11.04	12.84	14.06	14.73	15.29
Heat input (thousand mmBtu)	13448.59	14132.10	14986.49	16690.48	18409.90	19711.44	20411.67	20655.19	20850.00

Table 2: Simulated probabilistic estimation of annual emission ratios for Granite Ridge Energy power plant, NH (Unit ID: 0001) compared to simulated probabilistic estimation of annual emissions in the state.

Metric	P01	P05	P10	P25	P50	P75	P90	P95	P99
CO ₂ emissions (%)	12.42	12.62	12.85	13.12	13.45	14.10	14.41	14.35	14.32
NO _x emissions (%)	1.21	1.29	1.38	1.51	1.59	1.98	2.78	3.32	3.70
SO ₂ emissions (%)	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13

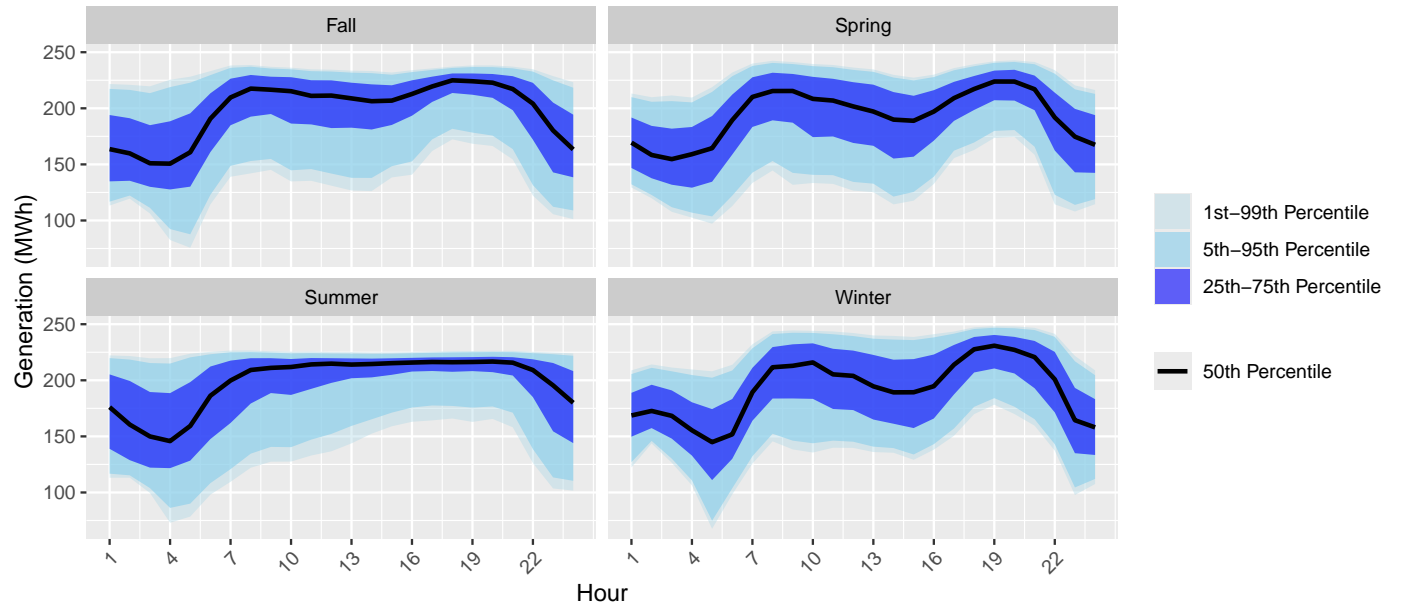


Figure 1: Simulated probabilistic hourly electricity generation distribution across seasons, showing mean percentile ranges per hour for this facility unit.

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.