## Burgess BioPower, NH

## **Facility Information**

Facility ID: **58054** Unit ID: **ST01** 

State: New Hampshire
County: Coos County
Operating Status: Operating
Primary fuel type: Wood

Associated generators - nameplate capacity (MW): ST01 (75)

Historical hourly generation (MWh): 71 [0-77]

Historical data availability: High

**Table 1:** Simulated probabilistic estimation of annual generation and emissions for Burgess BioPower power plant, NH (Unit ID: ST01).

Metric	P01	P05	P10	P25	P50	P75	P90	P95	P99
Electricity generation (GWh)	465.74	502.26	547.90	610.01	648.30	661.83	665.70	666.27	666.72
$CO_2$ emissions (thousand tons)	586.56	647.17	726.17	855.18	955.81	1021.41	1035.80	1178.63	1292.95
$NO_x$ emissions (thousand lbs)	334.33	371.88	421.42	494.78	554.99	600.62	662.68	867.22	1030.93
SO <sub>2</sub> emissions (thousand lbs)	23.64	26.06	29.21	34.23	38.46	41.60	48.66	72.90	92.31
Heat input (thousand mmBtu)	6593.07	6999.28	7507.05	8228.80	8937.43	9452.83	10280.48	11218.49	11968.90

Table 2: Simulated probabilistic estimation of annual emission ratios for Burgess BioPower power plant, NH (Unit ID: ST01) compared to simulated probabilistic estimation of annual emissions in the state.

Metric	P01	P05	P10	P25	P50	P75	P90	P95	P99
$CO_2$ emissions (%) $NO_x$ emissions (%)	10.66 $5.24$	11.18 5.58	$11.78 \\ 5.99$	$12.12 \\ 6.07$	$11.76 \\ 5.65$	11.33 5.03	10.72 $4.49$	11.61 5.30	12.24 5.82
$SO_2$ emissions (%)	0.46	0.48	0.51	0.50	0.45	0.43	0.46	0.66	0.81

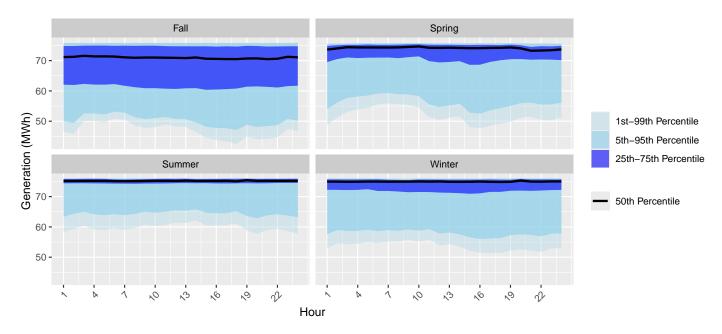


Figure 1: Simulated probabilistic hourly electricity generation distribution across seasons, showing mean percentile ranges per hour for this facility unit.

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.