

Westinghouse Electric Company LLC
Example Actual Emissions Calculations for CO₂e
Calendar Year 2020

Primary Fuel: Natural Gas

Primary Fuel	2020 Facility-Wide Fuel Usage (10 ⁶ ft ³)	Low NOx burners			
		EF (lb/10 ⁶ ft ³)	120,000	0.64	2.3
		Pollutant	CO ₂	N ₂ O	CH ₄
			(short tons/yr)	(short tons/yr)	(short tons/yr)
Natural Gas	112.12		6,727	0.036	0.129

GWP	1	298	25
CO ₂ e	6,727	10.69	3.22

CO ₂ e (short tons/yr)	CO ₂ e (metric tons/yr)
6,741.24	6,115.55

Notes:

- AP-42 Section 1.4, Table 1.4-2

Back Up Fuel: No. 2 Fuel Oil (Diesel Fuel)

175 gallons/hr, maximum hourly diesel fuel demand by operating boiler during natural gas curtailment

26 days of natural gas curtailment in 2020

624 hours of natural gas curtailment in 2020

109,200 maximum gallons of diesel fuel used in the boilers during natural gas curtailment in 2020

Back Up Fuel	2020 Estimated Worst Case Usage During Natural Gas Curtailment (10 ³ gallons)	EF (lb/10 ³ gallon)	22,300	0.26	0.052
		Pollutant	CO ₂	N ₂ O	CH ₄
			(short tons/yr)	(short tons/yr)	(short tons/yr)
Diesel Fuel	109.20		1,218	0.014	0.003

GWP	1	298	25
CO ₂ e	1,218	4.23	0.07

CO ₂ e (short tons/yr)	CO ₂ e (metric tons/yr)
1,221.88	1,108.47

Notes:

- AP-42 Section 1.3, Tables 1.3-3, 1.3-8, and 1.3-12 (industrial boilers)

Total CO₂e	short tons/yr	metric tons/yr
	7,963.12	7,224.02