

## **Appendix 3.2-E**

### **Emissions from Bowie Power Plant**

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Appendix 3.2-E Emissions from Bowie Power Plant

Bowie Power Plant (TSD) 1,070 MW capacity

	Total NGS 1400 MW emissions (ton/yr)	lb/hour for each CC UNIT	Tons per		2 units total	Bowie GHG			
			lb per 100 MW	year at 100 MW 8760		p 33 of TSD, part g.			
NOX-SCR	12699	101.3	18.9	83	12,782	turbine	1734.6	MMBtu/hour	
NOX+SCR	4233	101.3	18.9	83	4,316	Duct B	420	MMBtu/hour	
SO2	6047	4.1	0.8	3	6,050	Total	2154.6	MMBtu/hour	
CO	9071	262.3	49.0	215	9,286	CO2	53.06	kg/MMBtu 1 GWP	
PM10	1288	8.5	1.6	7	1,295	CH4	0.001	kg/MMBtu 25 GWP	
PM25.	925	8.5	1.6	7	932	N2O	0.0001	kg/MMBtu 298 GWP	
VOC	152	1.6	0.3	1	153				
						GHG-CO2e	53.1148	kg/MMBtu	
Btu/kW-ho	11194						117.0961	lb/MMBtu	
MW	750					each CC	995	lb/MW-hour From TSD	
CF	0.88					CO2	994.0	lb/MW-hour	
2-unit	129,582,127	MMBtu/year			194,373,190	MMBTU/year-3 unit	252,295	lb/hour per 530 MW	
GHG	207.246032	lb/MMBtu					each CC	451.247	kg CO2e/MW-hour
Total GHG	13,427,691	ton/year 2 unit						450.866	kg CO2 / Mwhour
	12,532,511	1400 MW					lb/hr	99,500	100 MW
	20,141,536	3 unit				1400 MW GI ton/year		435,810	
									12,968,321
Coal GHG									
CO2		93.28	kg/MMBtu						
CH4		0.01	kg/MMBtu						
N2O		0.0016	kg/MMBtu						
Total		94.0068	kg/MMBtu						
		207.246	lb/MMBtu						

EMISSIONS FROM NATURAL GAS PRODUCTION, STORAGE, TRANSPORTATION

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