

### 2019 Denton Energy Center Emissions by Month

2019	Runtime (hrs)	Hot Starts	Warm Starts	Cold Start	Stops										
						Nitrogen Oxides (NOx)	Carbon Monoxide (CO)	Volatile Organic Compounds (VOC)	Particulate Mater<10 microns (PM <sub>10</sub> )	Particulate Mater<2.5 microns (PM <sub>2.5</sub> )	Sulphur Dioxide (SO <sub>2</sub> )	Ammonia (NH <sub>3</sub> )	Carbon Dioxide Equivalents (CO <sub>2</sub> e)*	MWh	
<b>GENSET 1-12 TOTALS</b>	<b>10187.8</b>	<b>816</b>	<b>574</b>	<b>736</b>	<b>2126</b>										
January	751.8	170	58	151	379	2982.4	2950.8	2274.5	1384.3	1384.3	27.9	205.7	4692	9665	
February	922.7	120	32	124	276	2437.6	2446.7	1746.3	1279.8	1279.8	24.3	273.4	5872	11507	
March	1458.4	167	74	188	429	3853.9	3802.9	2730.9	2020.8	2020.8	38.0	428.4	8505	17435	
April	1335.9	299	79	158	536	3682.4	3660.3	3209.2	2129.8	2129.8	42.2	367.3	6921	14467	
May	2116.4	30	45	73	148	2207.2	2148.5	1390.2	2040.4	2040.4	30.6	610.4	7140	14363	
June	1370.3	84	126	127	337	3189.2	2944.9	2200.0	1773.6	1773.6	32.3	399.9	9015	18327	
July	2232.4	116	218	66	400	3368.0	3002.5	2770.2	2606.4	2606.4	44.8	658.0	15359	31372	
August															
September															
October															
November															
December															
													Total MWh	117136	
<b>Operations Emissions</b>															
						Engine Emissions (pounds)	21720.6	20956.6	16321.3	13235.2	13235.2	240.1	2943.1		
						Engine Emissions (tons)	10.9	10.5	8.2	6.6	6.6	0.1	1.5	57504	
<b>Plant Equipment Emissions (Permit by Rule)</b>															
						DEC Annual Emissions Emergency Diesel Generator*	0.71	0.39	0.17	0.04	0.04	0.14	0.00	41	
						DEC Annual Emissions Dew Point Heater*	3.31	2.59	0.27	0.24	0.24	0.16	0.00	3077	
<b>Total Plant Emissions</b>															
						Tons	14.88	13.46	8.60	6.90	6.90	0.42	1.47	60622	
<b>DEC Standard Permit Annual Limits</b>															
						DEC Total Plant Annual Emission Permit Limits (tons)	33.80	96.50	48.60	70.00	70.00	1.75	60.90		
						Annual to Date Total Plant Emissions per DEC Permit Limit	44.0%	13.9%	17.7%	9.9%	9.9%	24.0%	2.4%		

\*DEC operates dew point heater and diesel generator under TCEQ permit by rule.