

### 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 (PM <sub>10</sub> ) | Particulate Mater<2.5 (PM <sub>2.5</sub> ) | Sulphur Dioxide (SO <sub>2</sub> ) | Ammonia (NH <sub>3</sub> ) | Carbon Dioxide Equivalents (CO <sub>2e</sub> )* | MWh           |
|---|----------------|-------------|-------------|-------------|-------------|---|----------------------|----------------------------------|--|--|------------------------------------|----------------------------|---|---------------|
| <b>GENSET 1-12 TOTALS</b>                         | <b>17991.7</b> | <b>1933</b> | <b>1250</b> | <b>1299</b> | <b>4482</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  | 2885.5         | 158         | 243         | 28          | 429         | 3381.0  | 3012.3               | 3087.0                           | 3202.3                                   | 3202.3                                     | 53.5                               | 826.9                      | 22524   | 46733         |
| September   | 2365.9         | 219         | 243         | 71          | 533         | 3814.8  | 3475.0               | 3506.0                           | 2969.6                                   | 2969.6                                     | 53.2                               | 717.1                      | 18024   | 37181         |
| October   | 1044.8         | 211         | 83          | 129         | 423         | 3019.0  | 2987.2               | 2547.3                           | 1623.5                                   | 1623.5                                     | 33.1                               | 309.0                      | 7808  | 16344         |
| November  | 1291.1         | 453         | 66          | 185         | 704         | 4199.7  | 4346.6               | 4067.6                           | 2377.4                                   | 2377.4                                     | 50.2                               | 375.6                      | 7906  | 16168         |
| December  | 216.7          | 76          | 41          | 150         | 267         | 2465.0  | 2372.1               | 1496.1                           | 668.5                                    | 668.5                                      | 16.1                               | 62.8                       | 1103  | 2159          |
|   |                |             |             |             |             |   |                      |                                  |  |  |                                    |                            | <b>Total MWh</b>                                | <b>235721</b> |
| <b>Operations Emissions</b>                       |                |             |             |             |             |   |                      |                                  |  |  |                                    |                            |   |               |
|   |                |             |             |             |             | Engine Emissions (pounds)                                 | 38600.0              | 37149.8                          | 31025.3                                  | 24076.5                                    | 24076.5                            | 446.2                      | 5234.4  |               |
|   |                |             |             |             |             | Engine Emissions (tons)                                   | 19.3                 | 18.6                             | 15.5                                     | 12.0                                       | 12.0                               | 0.2                        | 2.6   | 114869        |
| <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  | 23.32                | 21.55                            | 15.95                                    | 12.32                                      | 12.32                              | 0.52                       | 2.62  | 117987        |
| <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 | 69.0%                | 22.3%                            | 32.8%                                    | 17.6%                                      | 17.6%                              | 29.9%                      | 4.3%  |               |

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