

# The Michelangelo Hotel NYC – Database Notes

Table 1 Database Notes

|  |   |  |
|--|---|--|
| <b>Data Collection</b>                           | <u>Data Logger:</u><br><u>Data Collection Interval:</u><br><u>Collection Method:</u>  | ENER-G Rudox<br>15 minute<br>Email                                     |
| <b>Site Information</b>                          | <u>Cogeneration Units:</u><br><u>Nameplate Capacity:</u><br><u>Heat Recovery Medium:</u><br><u>Heat Recovery Uses:</u><br><u>Excess Heat:</u> | 1 Engine<br>265 kW<br>Hot Water<br>Domestic hot water<br>Dump radiator |
| <b>DG/CHP Generator Electrical Output</b>        | <u>Engineering Units:</u><br><u>Energy Measurement (net/gross):</u><br><u>Measurement Type:</u>   | kWh<br><br>Calculated from power                                       |
| <b>DG/CHP Generator Electrical Output Demand</b> | <u>Engineering Units:</u><br><u>Measurement Type:</u>   | kW<br>Rate   |
| <b>DG/CHP Generator Fuel Input</b>               | <u>Engineering Units:</u><br><u>Measurement type:</u>   | Cf<br>Pulse counter from utility meter                                 |
| <b>DG/CHP Useful Heat Recovery</b>               | <u>Engineering Units:</u><br><u>Heat Measurement Type:</u>  | MBtu/h<br>Pulse counter from Btu meter                                 |
| <b>DG/CHP Unused Heat Recovery</b>               | <u>Engineering Units:</u><br><u>Heat Measurement Type:</u>  | MBtu/h<br>Calculated from flow and temperatures                        |
| <b>DG/CHP Status/Runtime</b>                     | <u>Engineering Units:</u><br><u>Measurement Type:</u>   |  |

# The Michelangelo Hotel NYC – Database Notes

Table 2 Event Timeline

| Date             | Event                                       |
|------------------|---|
| January 10, 2019 | Data has been posted to NYSERDA DER website |

## The Michelangelo Hotel NYC – Database Notes

### *Range Checks*

**Table 3. Range Checks**

| <b>Data Point</b>                      | <b>Units</b> | <b>Hourly Data Calculation Method</b> | <b>Database Lower Range</b> | <b>Database Upper Range</b> | <b>Notes</b>                  |
|--|--------------|---------------------------------------|-----------------------------|-----------------------------|-------------------------------|
| DG/CHP Generator Output Demand (WG_KW) | kW           | Max                                   | 0                           | 300                         | -                             |
| DG/CHP Generator Gas Use (FG)          | cf           | Sum                                   | 0                           | 5,000                       | -                             |
| Total Facility Purchased Energy (WI)   | kWh/int      | Sum                                   | 0                           | 400                         | -                             |
| Other Facility Gas Use (FT)            | cf/int       | -                                     | -                           | -                           | -                             |
| Useful Heat Recovery (QU_METER)        | MBtu         | -                                     | 0                           | 2000                        | -                             |
| Unused Heat Recovery (QD)              | MBtu         | -                                     | 0                           | 2000                        | -                             |
| Ambient Temperature (TAO)              | °F           | Avg                                   | -20                         | 130                         | <i>WUG Airport Code - SYR</i> |

Notes:

1. This table contains values from *michaelangelo\_hotel.csv*

# The Michelangelo Hotel NYC – Database Notes

## *Relational Checks*

Table 4. Relational Checks

| Evaluated Point | Criteria | Result |
|-----------------|----------|--------|
|                 |          |        |
|                 |          |        |
|                 |          |        |

Notes:

1. This table contains values from *relational\_checks.pro*