

1540 BROADWAY – DATABASE NOTES

Table 1 Database Notes

| | | |
|---------------------------------------|---|--|
| Data Collection | Data Logger: Data Collection Interval: Collection Method: | Mechanical Energy Solutions 15 minute Email |
| Project Information | DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat: | AB Ecomax 15 1429 kW Hot Water, Exhaust Domestic Hot Water (DHW), Other Rejected to atmosphere by Dry Cooler |
| DER Electricity Generated (WG) | Engineering Units: Energy Measurement (net/gross): Measurement Type: | kWh Net Power Calculated using accumulated gross and parasitic kWh values from installed meters |
| Electric Utility Import (WI) | Engineering Units: Measurement Type: | kWh Accumulated kWh |
| DER Fuel Consumed (FG) | Engineering Units: Measurement type: | cfh Calculated using accumulated cf values from Utility gas meter |
| DER Heat Used (QU) | Engineering Units: Heat Measurement Type: | MBtu/hr Calculated from 15-minute analog flow and temperature data from Btu Meter |
| DER Heat Rejected (QD) | Engineering Units: Heat Measurement Type: | MBtu/hr Calculated from 15-minute analog flow and temperature data from Btu Meter |

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Table 2 Event Timeline

| Date | Event |
|-------------|------------------------------------|
| 6/20/2022 | Data collection begins |
| 6/28/2022 | Data posted to NYSERDA DER Website |
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Range Checks

Table 3 Range Checks

| Data Point | Units | Database Lower Range | Database Upper Range | Notes |
|----------------------------------|--------------|---------------------------------|---------------------------------|--------------------------|
| DER Electricity Generated | kWh/hour | -150 | 1600 | |
| Electric Utility Import | kWh/hour | 0 | 3000 | |
| DER Fuel Consumed | cfh | 0 | 15000 | |
| DER Heat Used | MBtu/hour | 0 | 15000 | |
| DER Heat Rejected | MBtu/hour | 0 | 15000 | |
| Ambient Temperature | °F | -20 | 130 | NOAA Airport Code - KLGA |

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Relational Checks

Table 4 Relational Checks

| Evaluated Point(s) | Criteria | Result |
|--|---|--|
| Electricity Generated Fuel Consumed | Daily Electric Efficiency < 0% HHV and > 100% HHV | Electricity Generated = invalid Fuel Consumed = invalid Heat Used = invalid Heat Rejected = invalid |
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