# Daily PJM Load, NOx Emissions, CASTNET Met and AQI Ozone Season 2005

NOTES: Daily Max Temperature (F) is at CASTNET site in Washington Crossing, NJ 'WSP144'.

AQI is **ozone value only** for MSA indicated.

PJM-East Load is aggregated daily total from telemetry data.

Daily NOx Emissions in tons. Analysis considers all electrical generating and large industrial sources in select counties* from the New York City and Philadelphia metropolitan areas which report data to EPA under 40 CFR Part 75.

Peak units defined at <= 1,100 hours of operation in 2005 ozone season. Includes only unit type CT (Combustion Turbines).

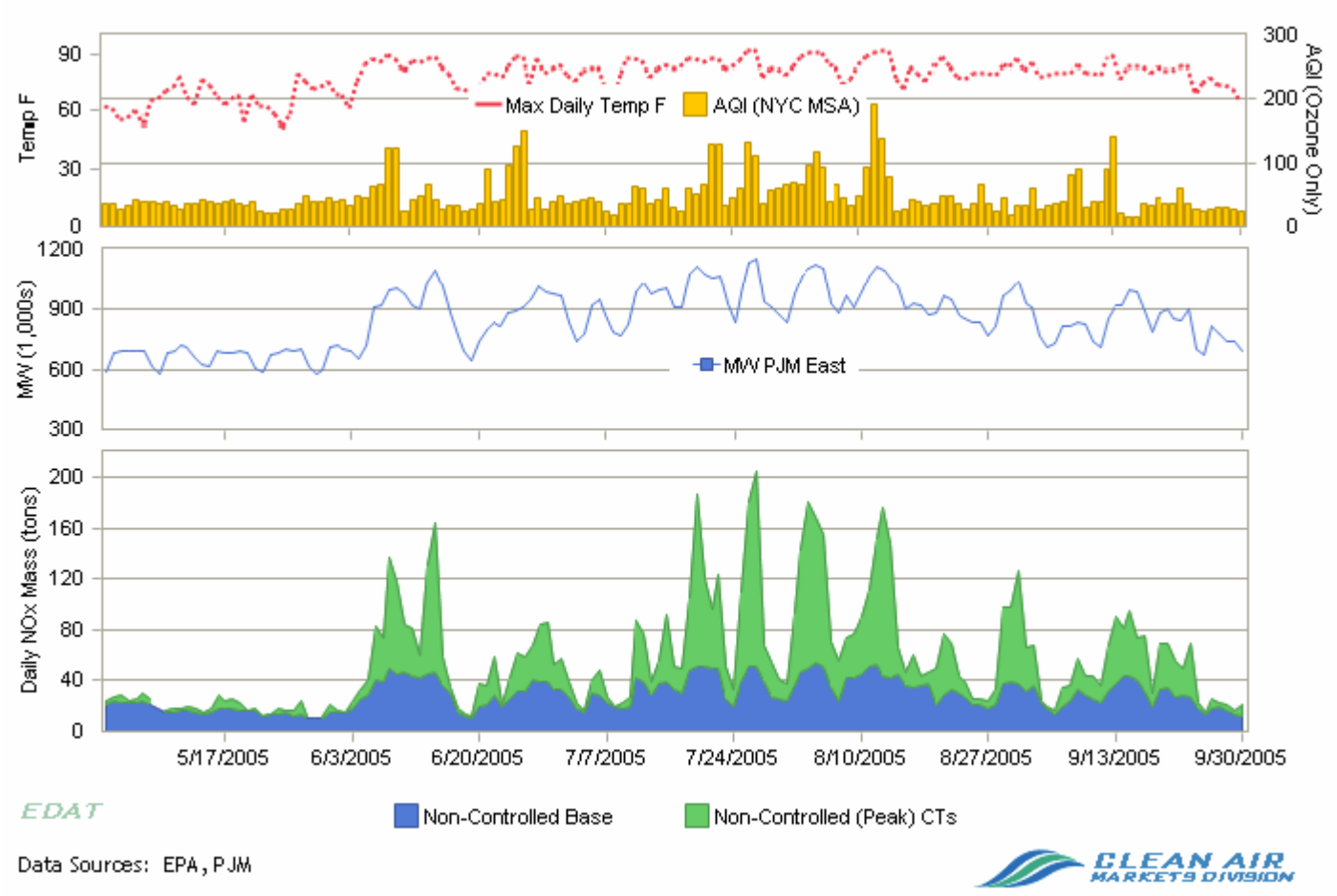
Base units defined at > 1,100 hours during the 2005 ozone season. Includes all unit types.

## Metro NYC, NY

MSA 5600

Non-Controlled Units

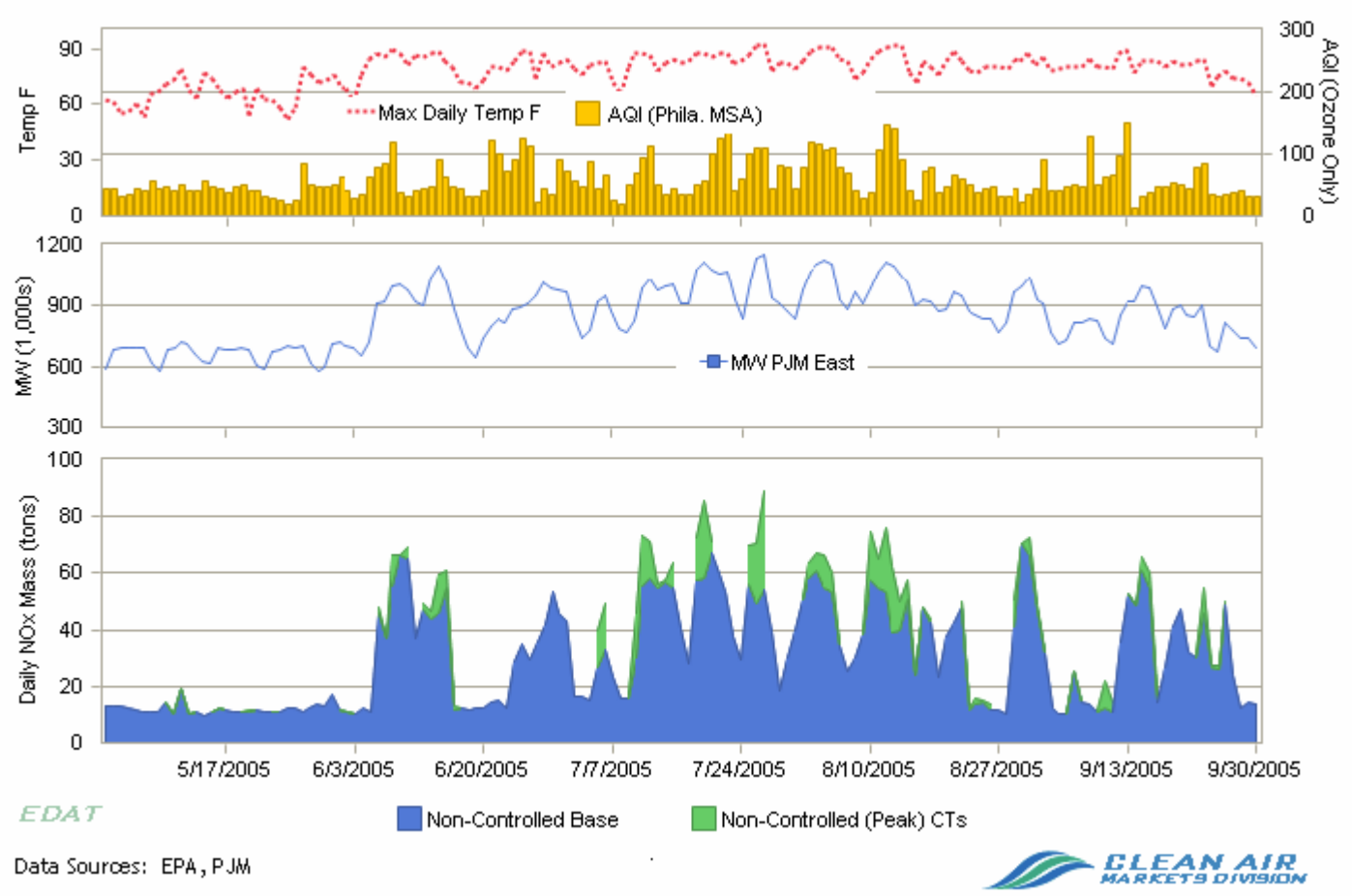
- Selecting 2005 ozone season days with a maximum daily temp of approximately 90 F will capture most AQI ozone days >100 (orange or higher) in MSA 5600.
- There appears to be a close correlation between PJM East load and the dispatch of non-controlled units in metro NYC area. Note that PJM only called the peaking units during periods of warm temperatures. PJM maximum load for 2005 was on July 26.



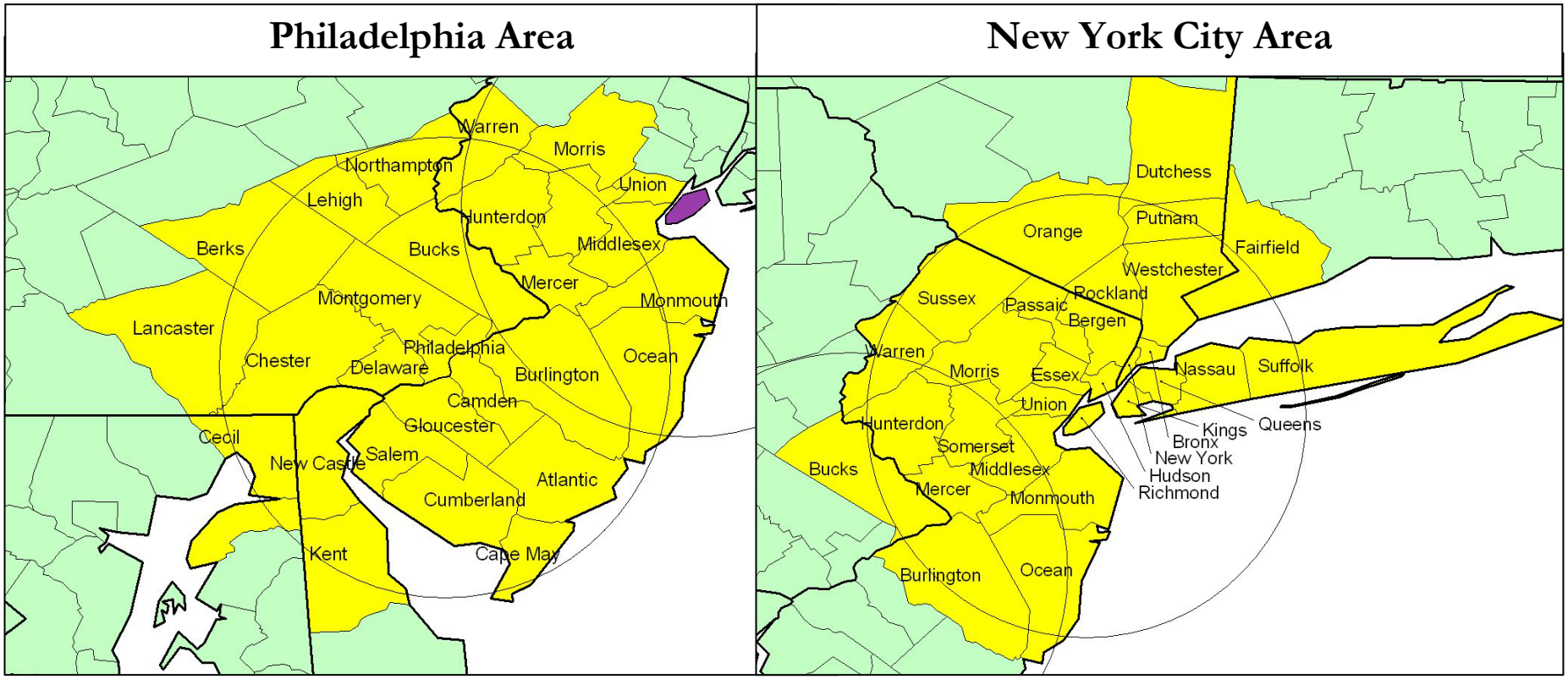
# Philadelphia, PA

MSA 6160
Non-Controlled Units

- Selecting 2005 ozone season days with a maximum daily temp of approximately 90 F will capture most AQI ozone days >100 (orange or higher) in MSA 6160.
- There appears to be a close correlation between PJM East load and the dispatch of non-controlled units in metro Philadelphia area. Note that PJM only called the peaking units during periods of warm temperatures. PJM maximum load for 2005 was on July 26.



# *Counties Included in Analysis




- Counties chosen:
  - Were predicted to remain in non-attainment in 2015 with CAIR,
  - Had at least a portion of area within a 50-mile radius of the respective city center or included major EGUs.
  - NOTE: There is some overlap between areas