

ONE UNION SQUARE

Building

- 37 story commercial tower
- Built in 1981
- All-electric
- 9,000,000 kWh/yr
- EUI =38 kBtu/sf
- Energy Star rating of 89
- Energy Services
 - McKinstry

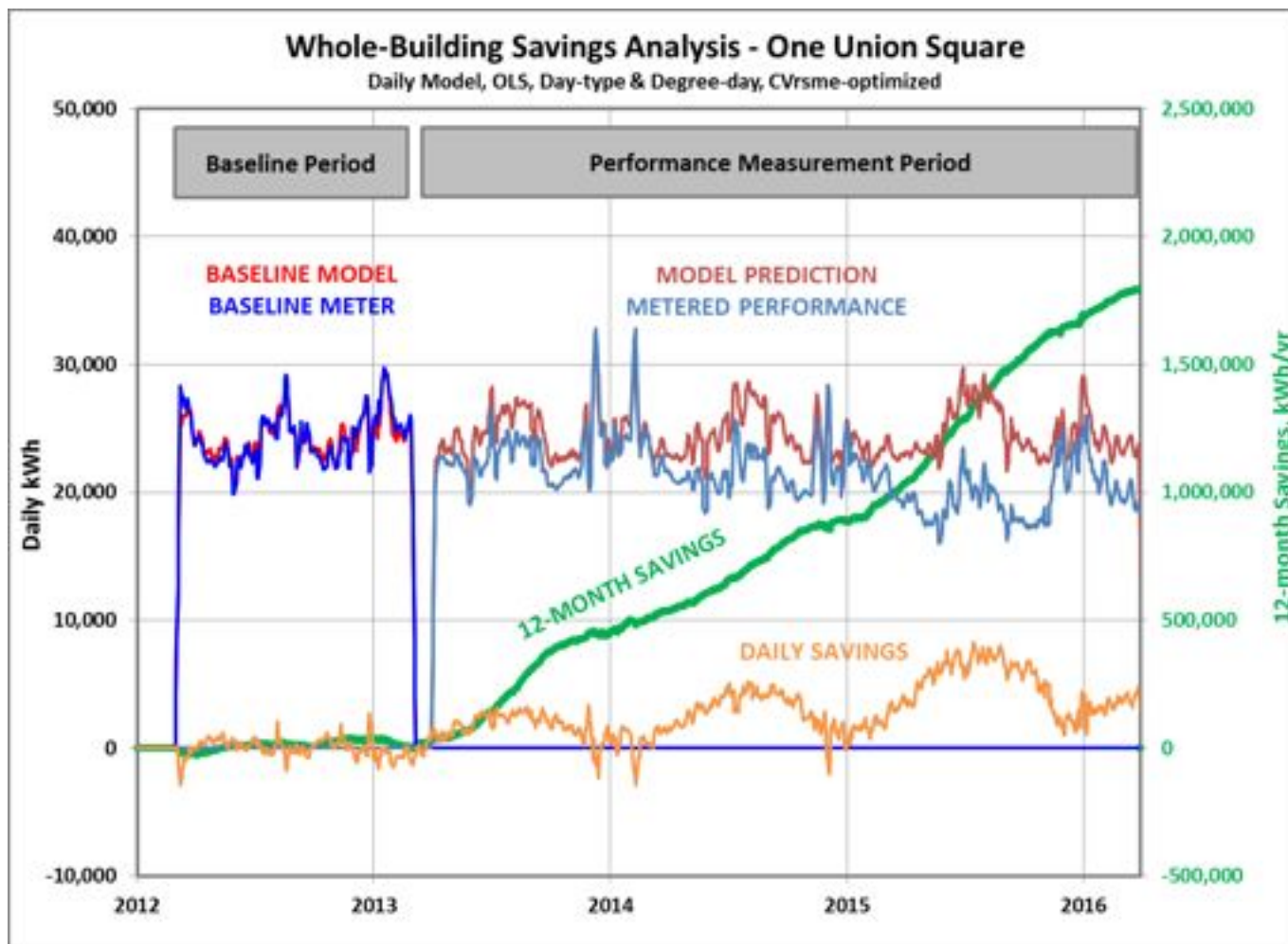


ONE UNION SQUARE

Efficiency measures

- Lighting upgrades
- Condenser-water system consolidation and upgrades
- Complete HVAC retro-commissioning
- Night cooling “purge” mode

ONE UNION SQUARE – RESULTS



**~20%
Reduction**

1111 THIRD AVE

- Building
 - 34 story commercial tower
 - Built in 1980
 - All-electric
 - 10,000,000 kWh/yr
 - EUI = 60 kBtu/sf
 - Energy Star rating of 70
- Energy Services
 - ATS Automation
 - QuEST



1111 THIRD AVE

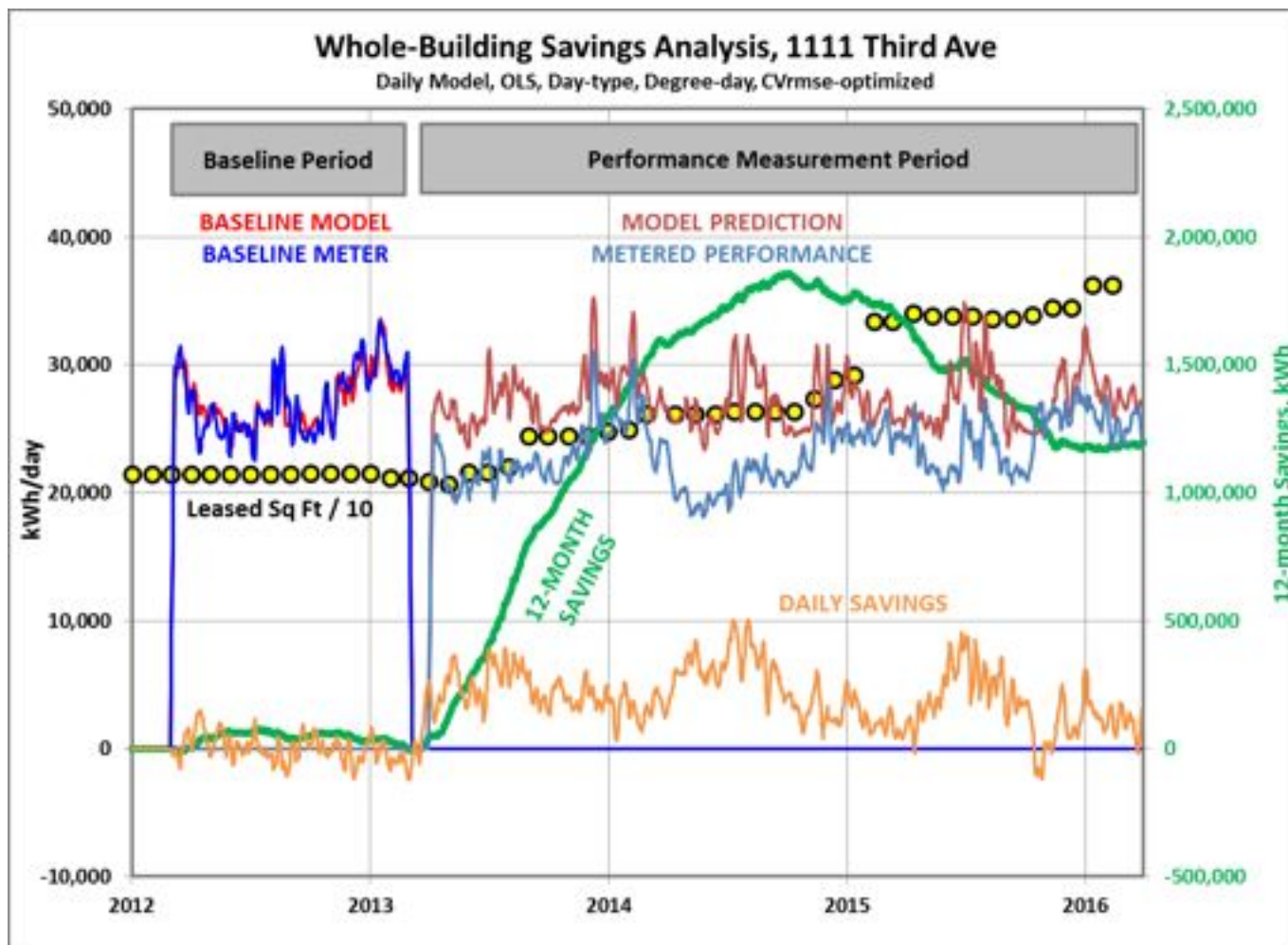
- Building
 - 34 story commercial tower
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1111 THIRD AVE

- Efficiency measures
 - Primary chilled water flow control
 - Cooling tower optimization
 - Air handler VFDs
 - Floor isolation dampers
 - Solar window film
 - Full building VAV DCC upgrade
 - Retro-commissioning and controls
 - Tenant awareness

1111 THIRD AVE – RESULTS



**~12%
Reduction**