

Trends in Multifamily Building Energy Efficiency

Data Analysis from NYSERDA's Multifamily Performance
Program (MPP)

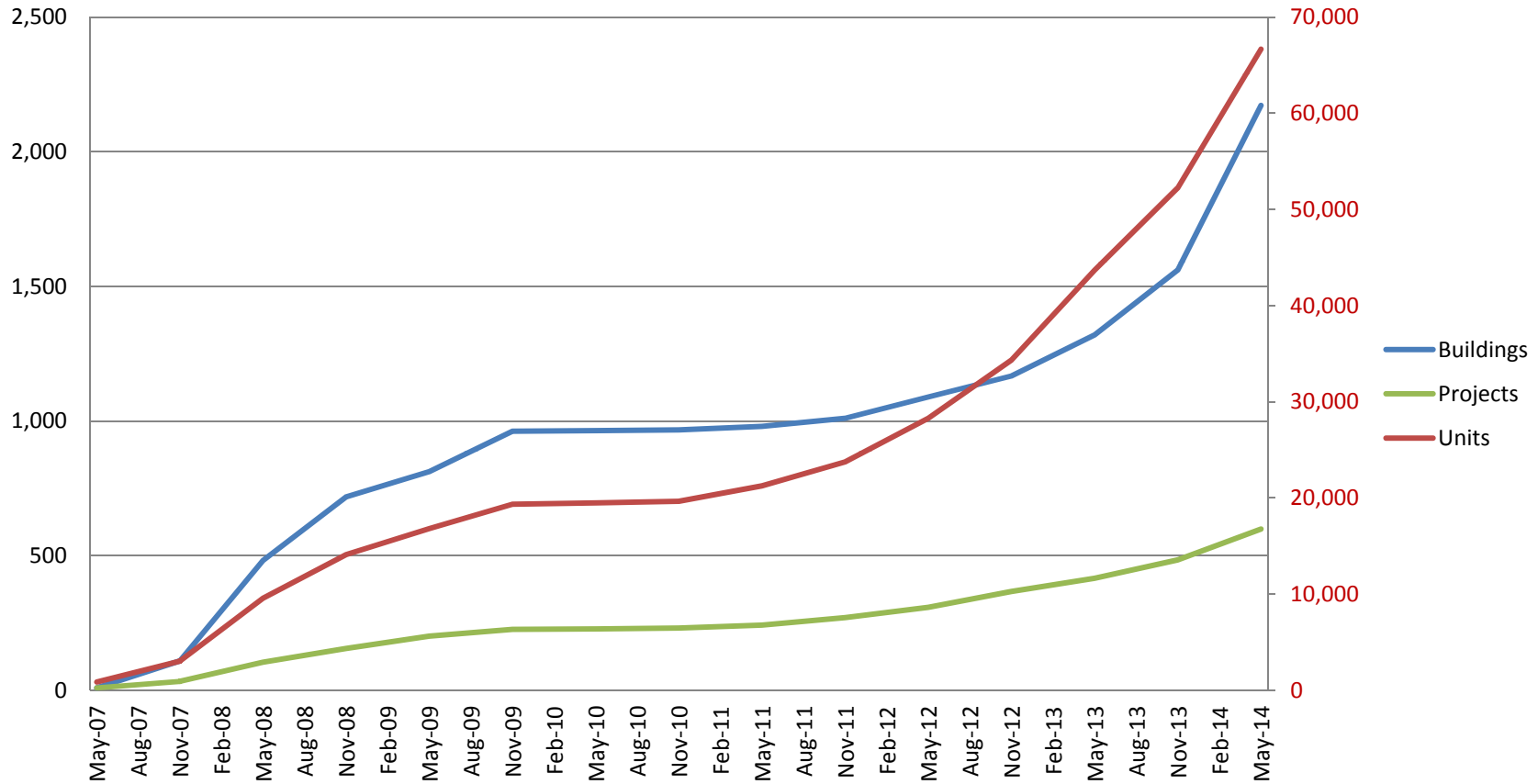
~ Ed Morrison, Sr. Project Manager for NYSERDA Multifamily Programs

The Data Set - History

- The Multifamily Performance Program (MPP)
 - multifamily buildings with five or more units
 - Started in 2007
 - Market Types:** market-rate and **affordable-rent buildings***
 - Building Type:** New Construction and Existing Buildings
 - Incentives come in the form of per unit payments
 - Goal is to reduce energy consumption by a threshold percentage of the properties baseline

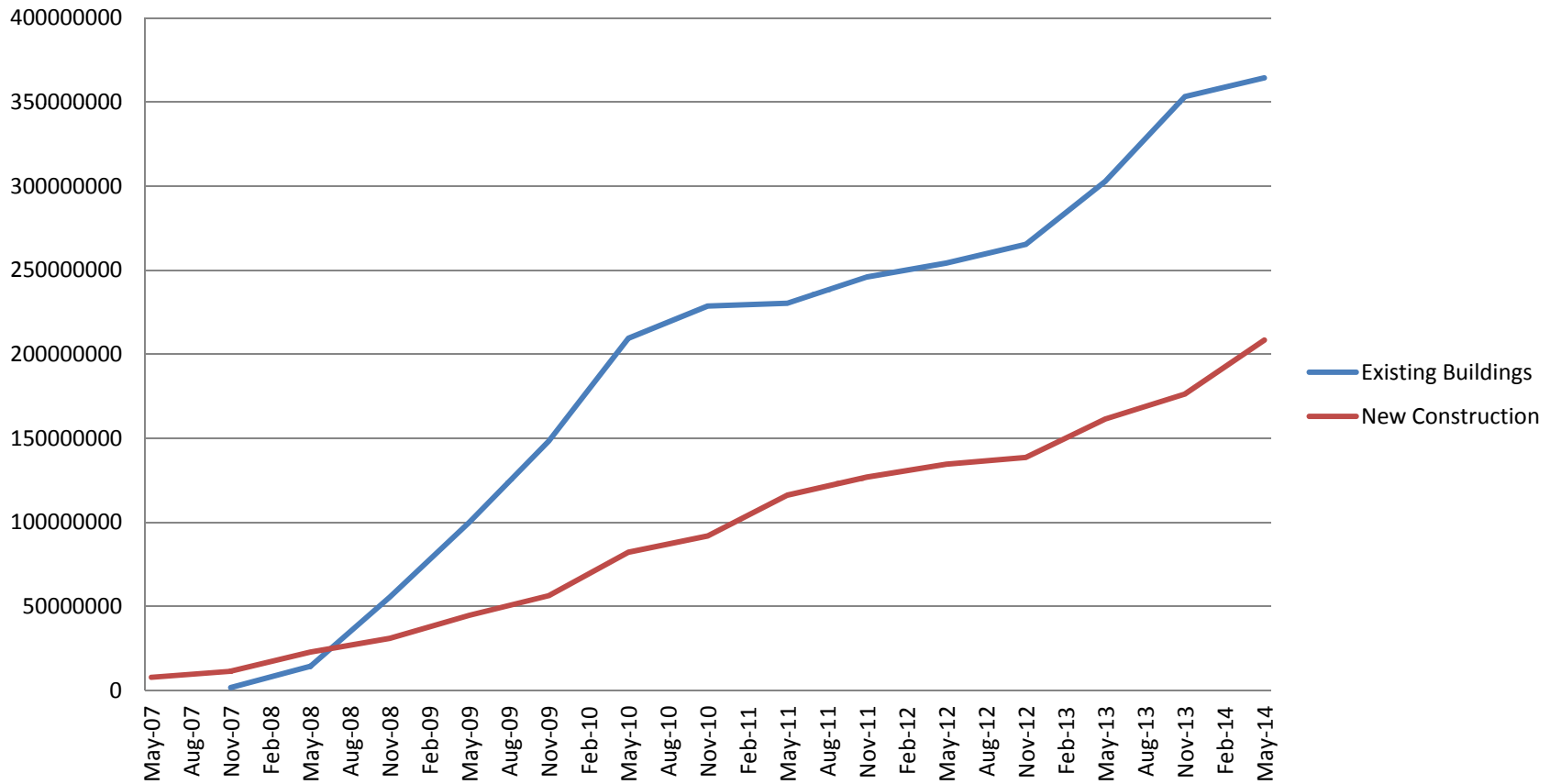
Multifamily Performance Program Activity

Affordable Market - Projects



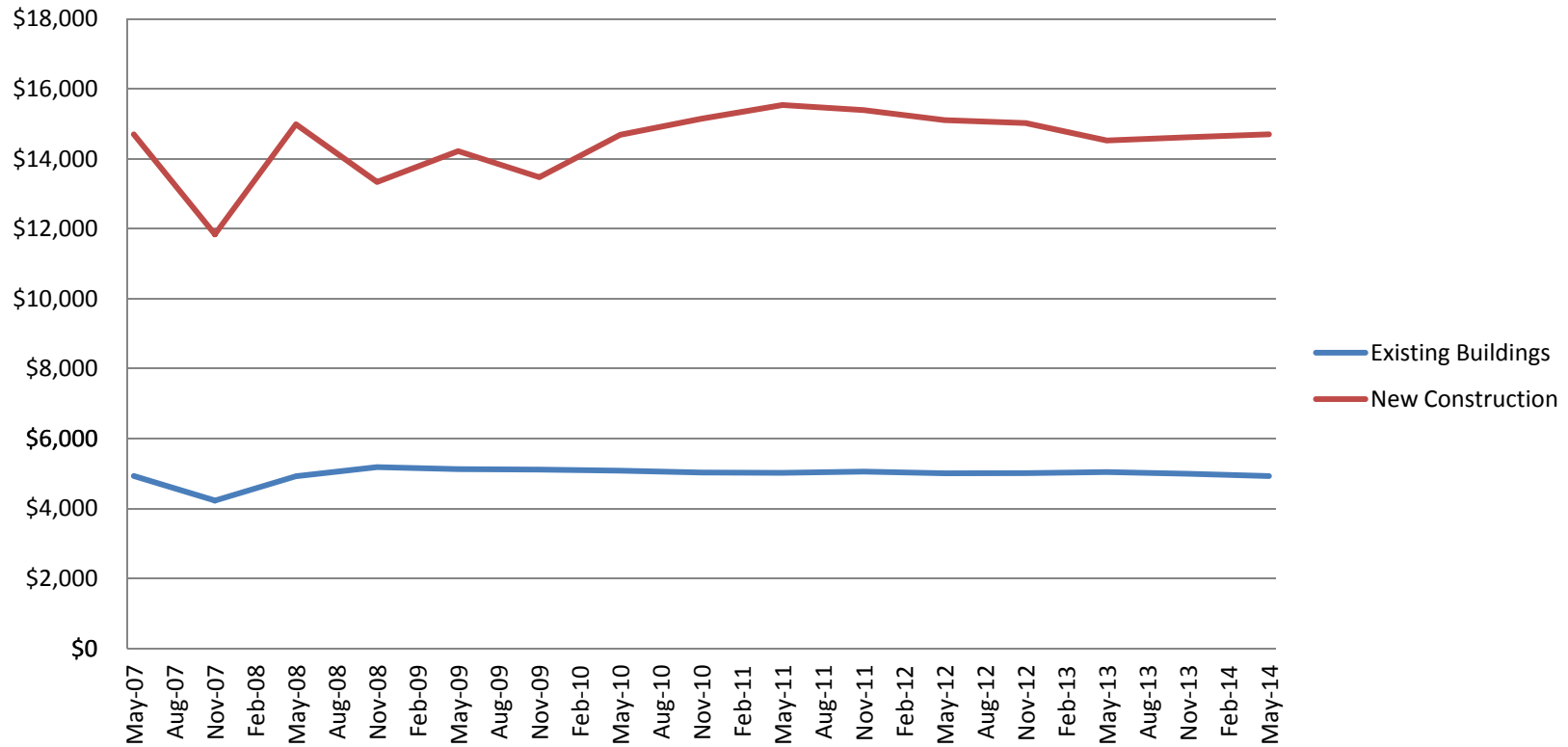
Multifamily Performance Program Activity

Affordable Market - Scope of Work Cost Totals



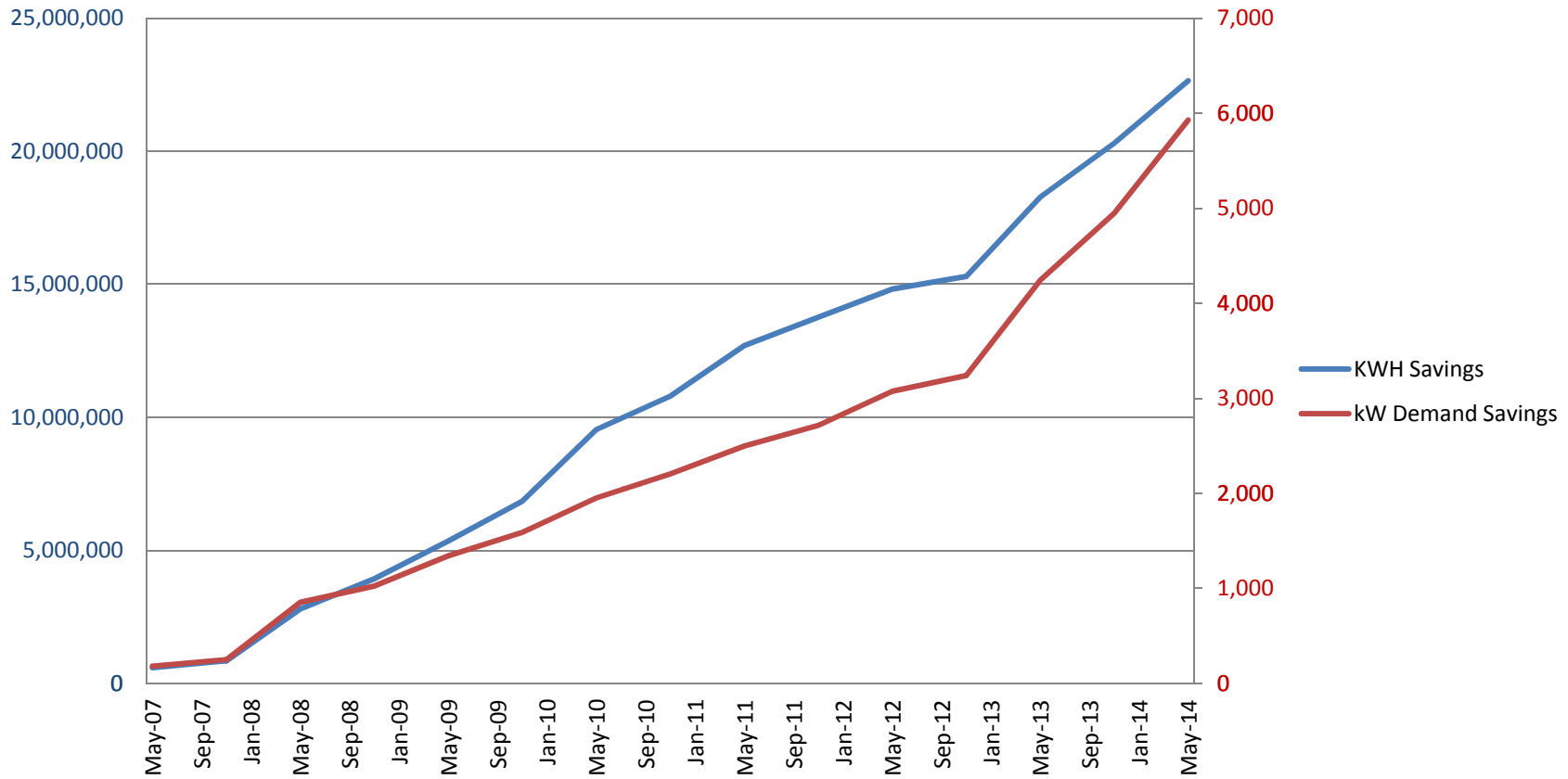
Multifamily Performance Program Activity

Affordable Market - Workscope Cost per Unit (average)



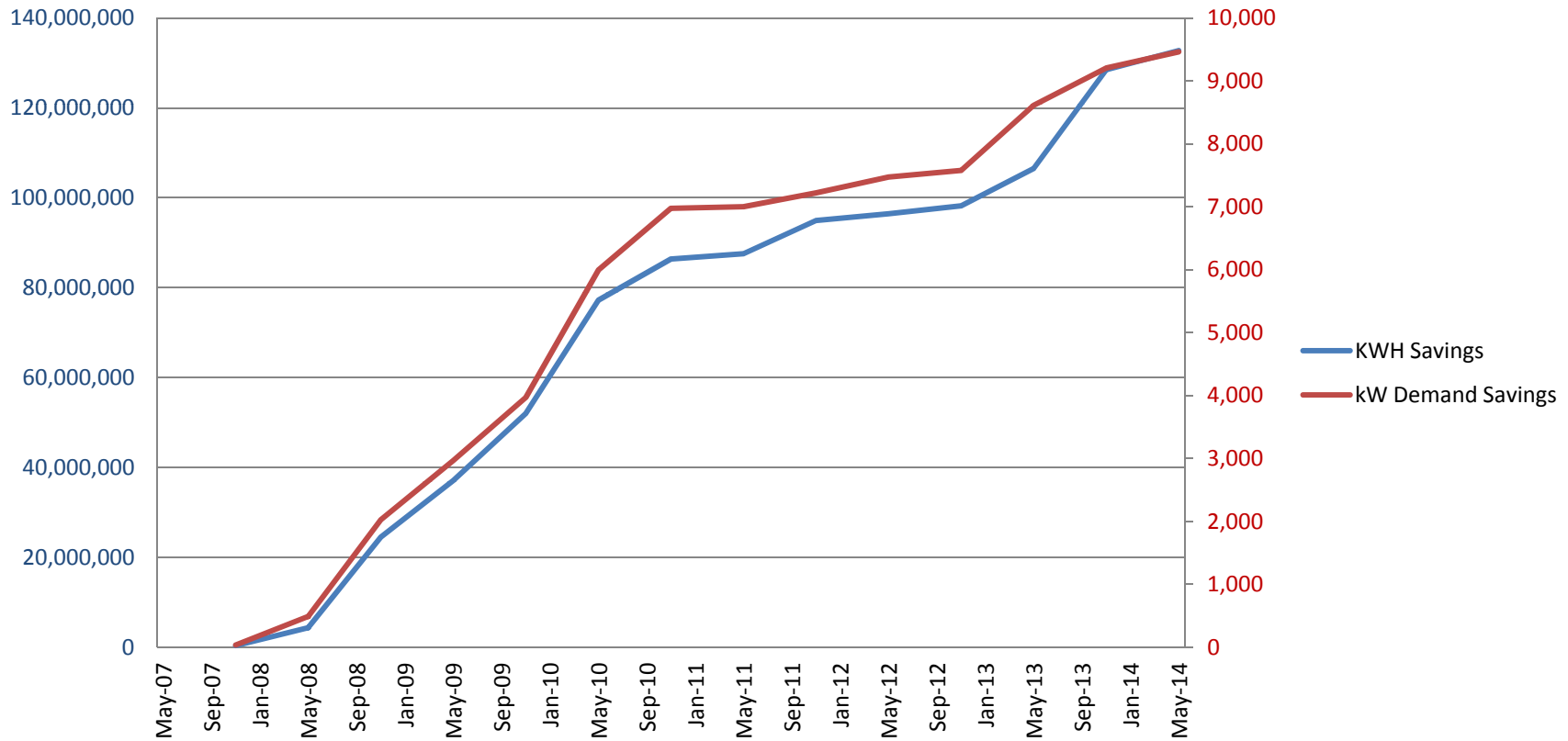
Multifamily Performance Program Activity

Affordable Market - New Construction Electric savings



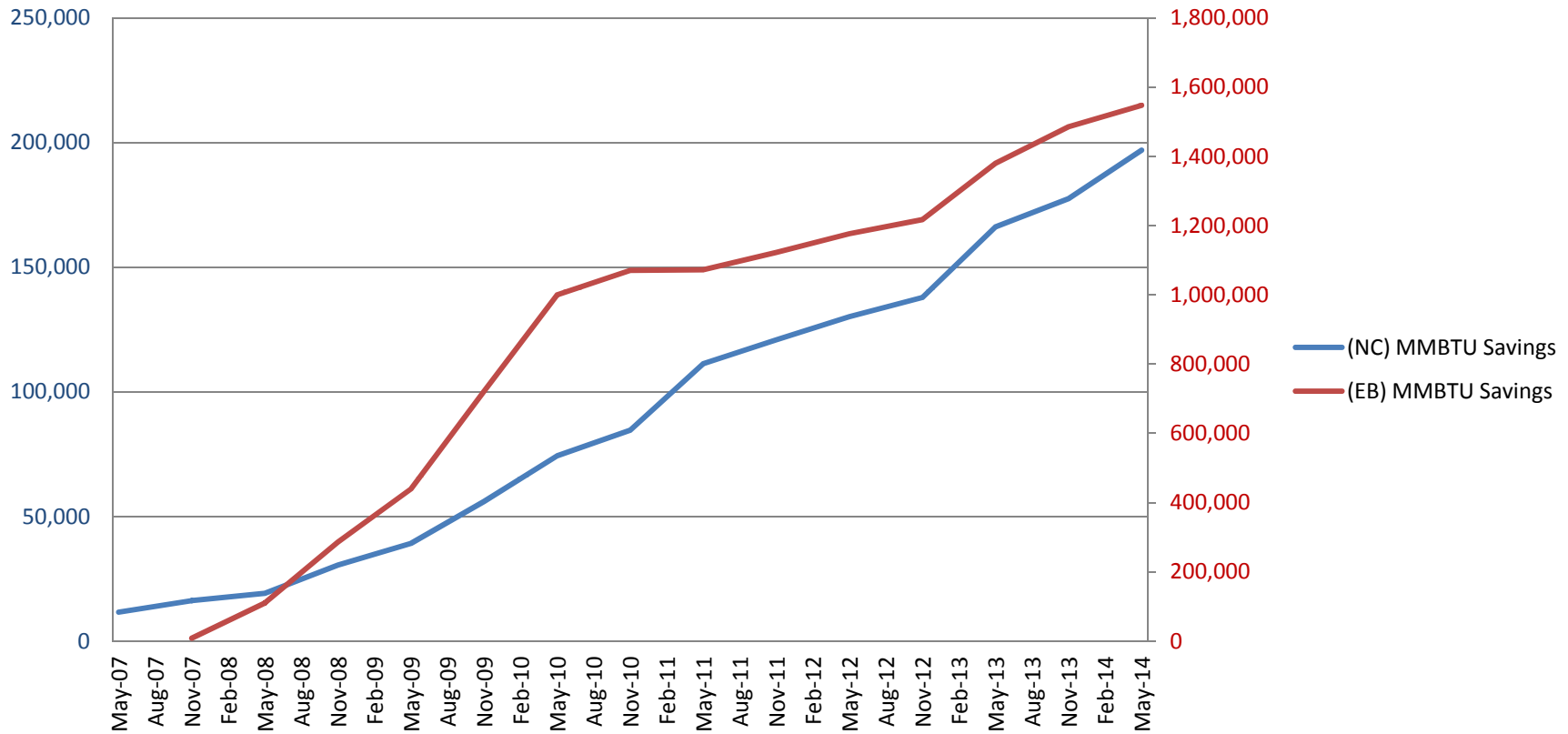
Multifamily Performance Program Activity

Affordable Market - Existing Buildings Electric Savings



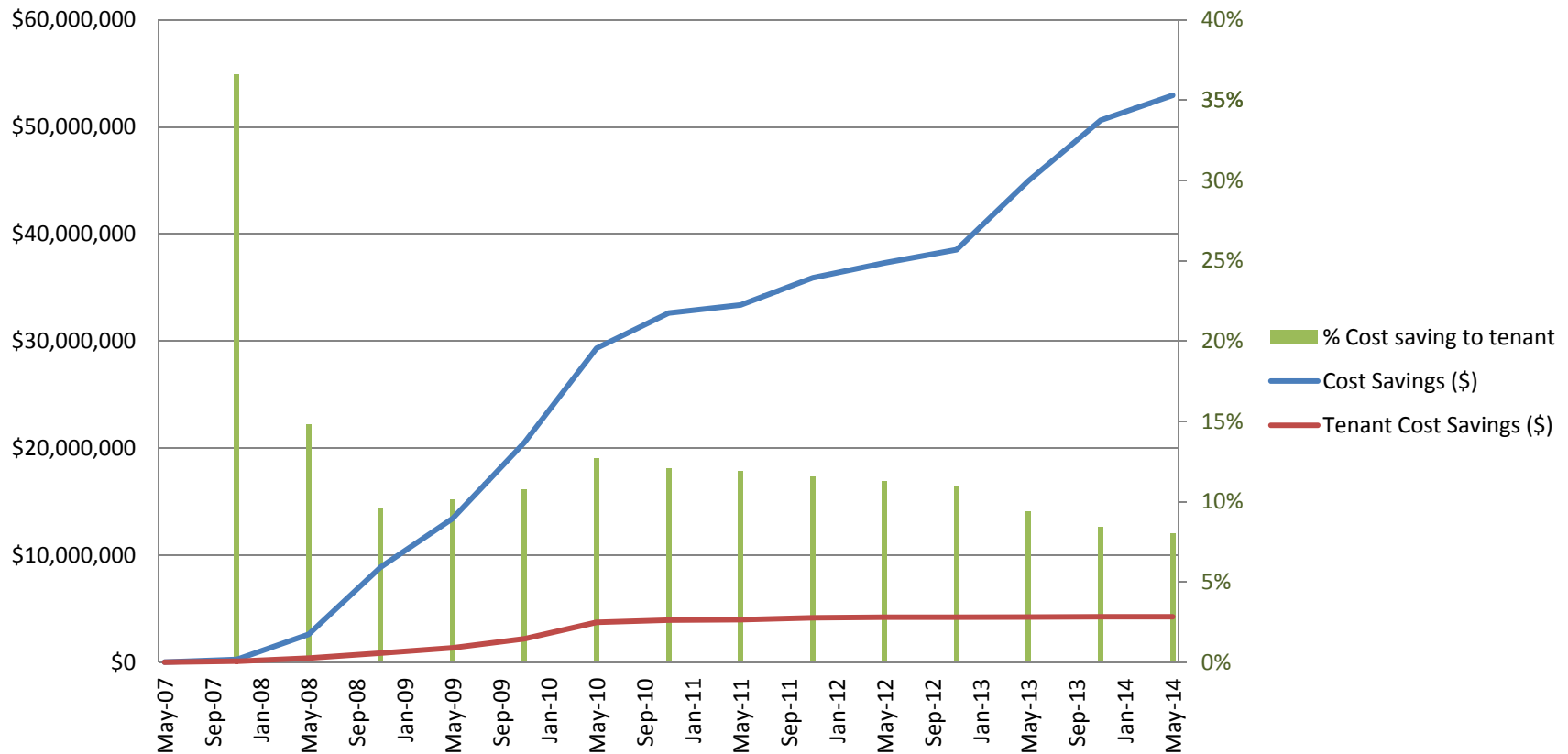
Multifamily Performance Program Activity

Affordable Market - MMBTu Savings



Multifamily Performance Program Activity

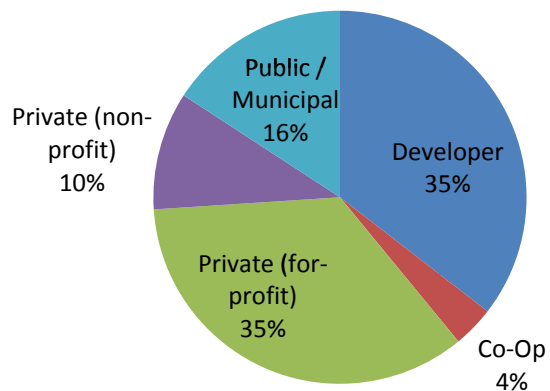
Affordable Market - Energy Cost Savings



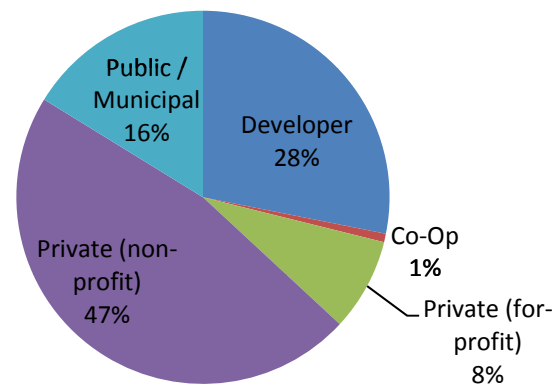
Multifamily Performance Program Activity

Affordable Market – Ownership Type

Ownership - May 2008

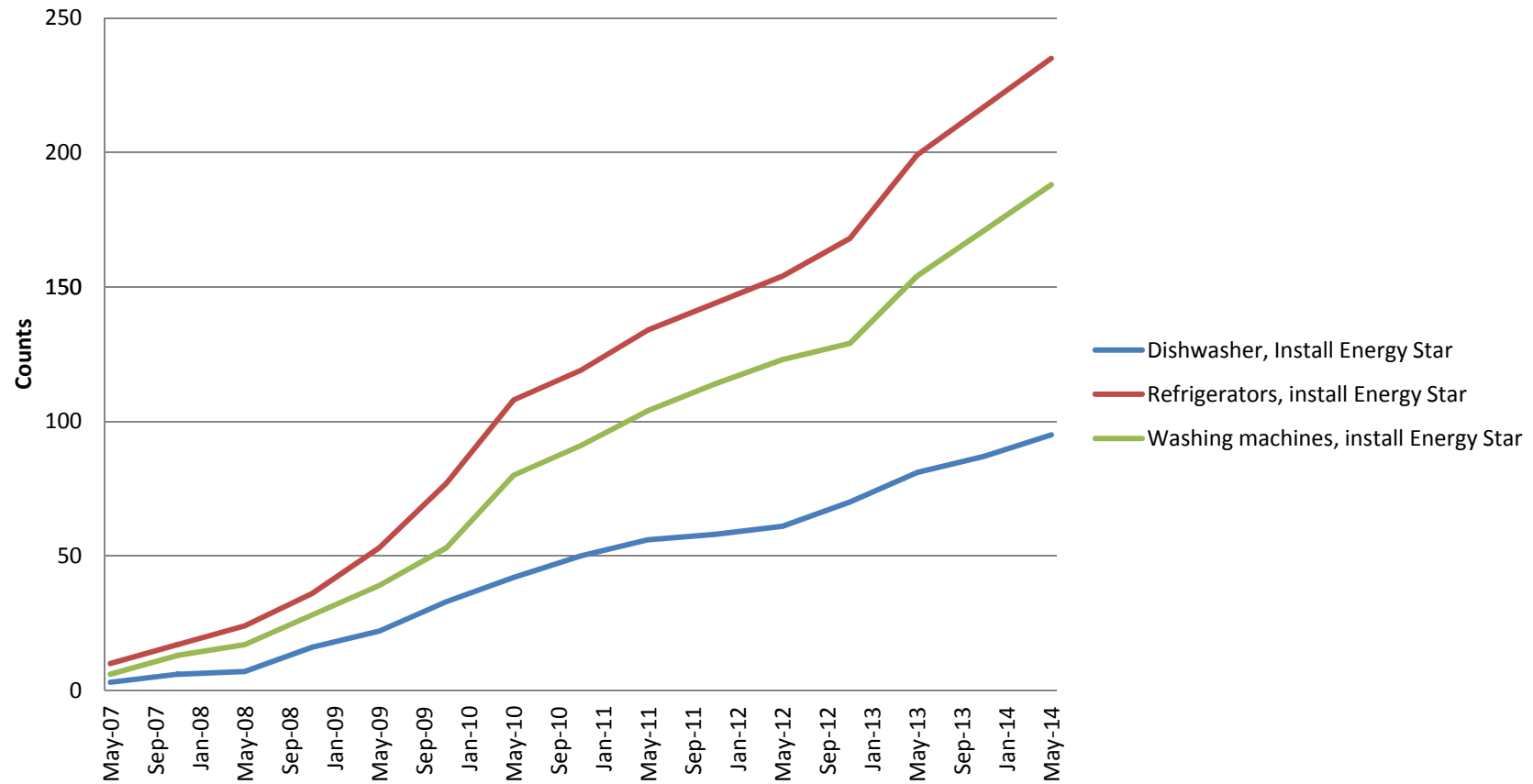


Ownership - May 2014



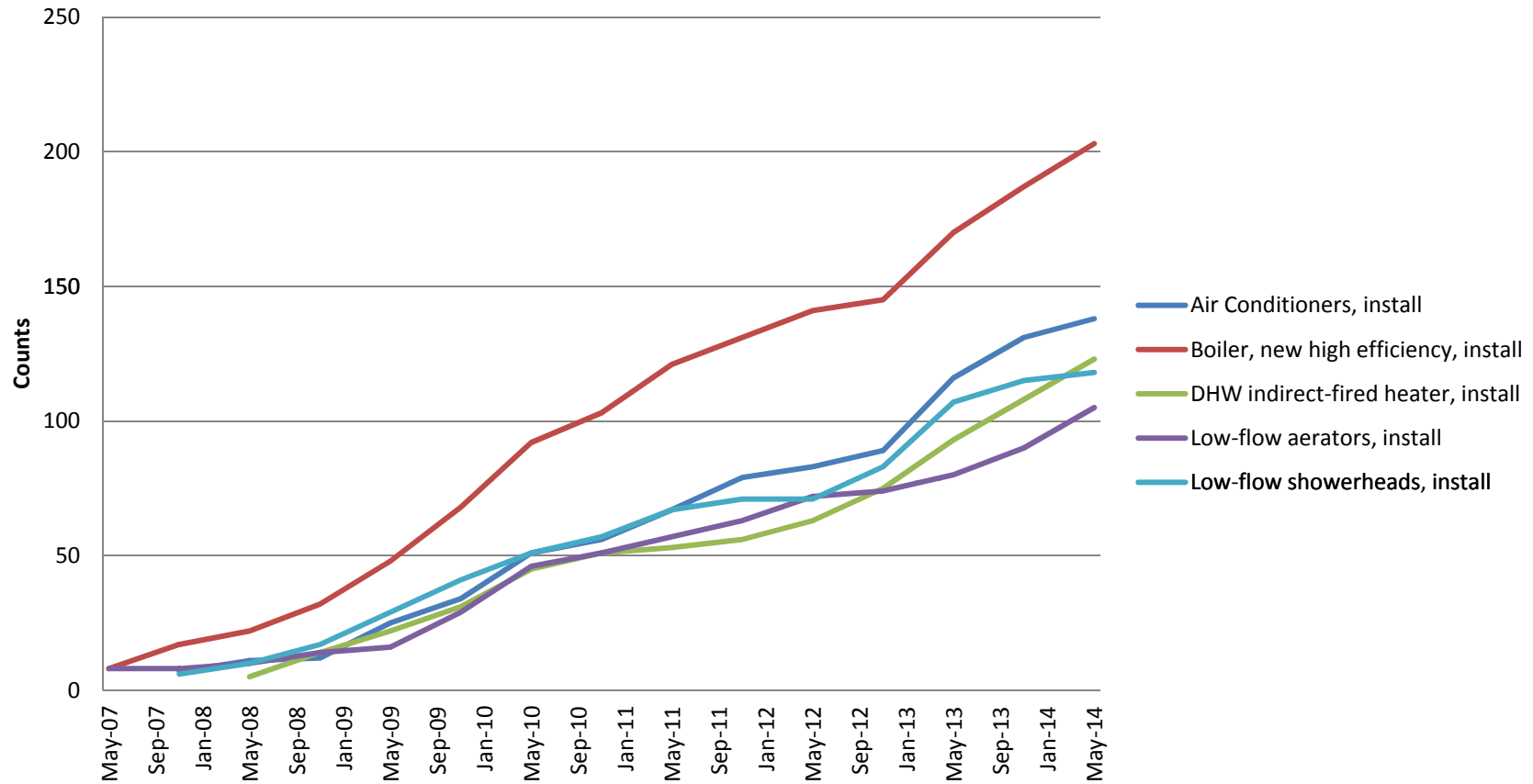
MPP Measure (Improvement) Trends

Affordable Market – New Construction - Appliances



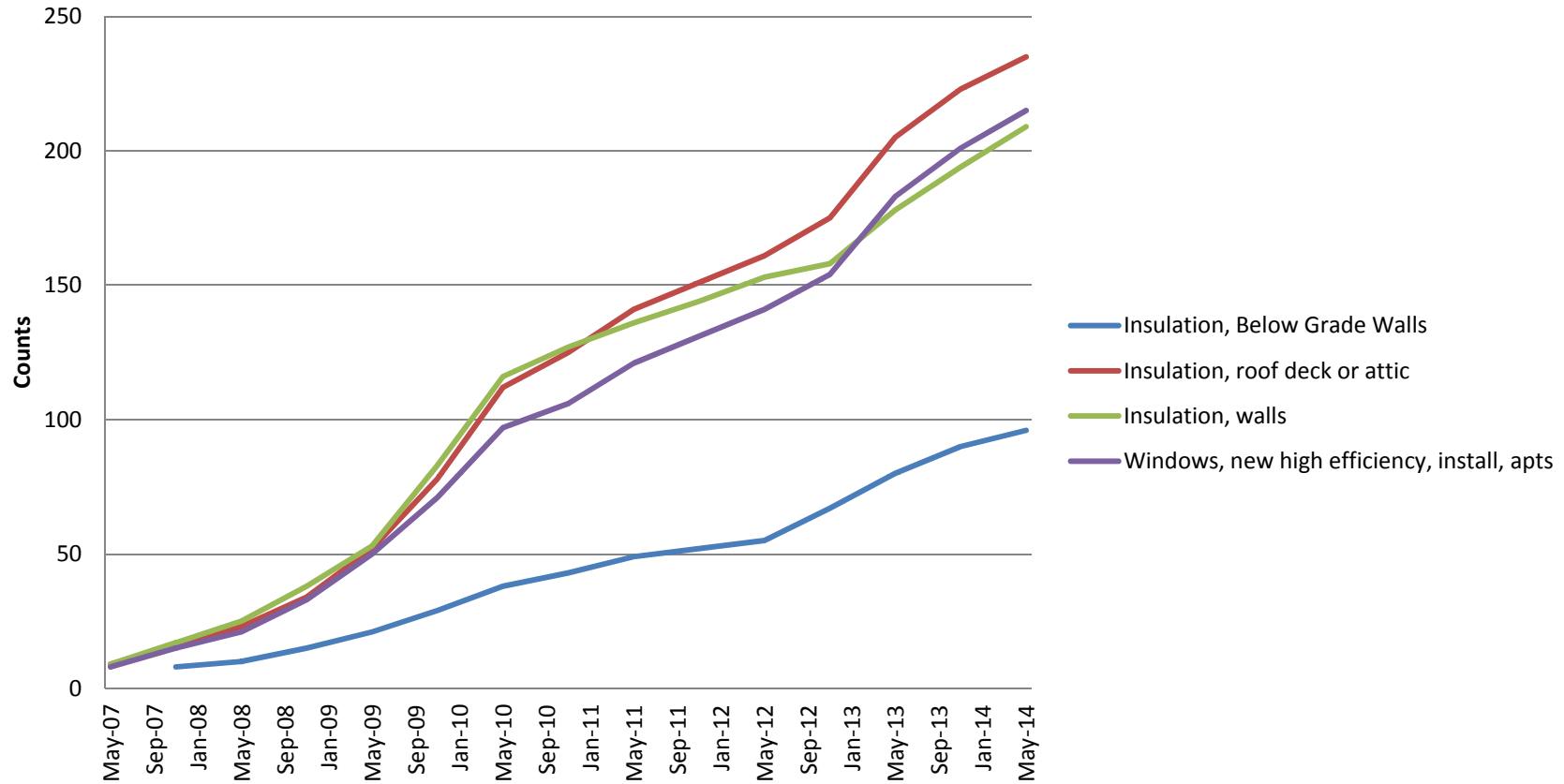
MPP Measure (Improvement) Trends

Affordable Market – New Construction - HVAC



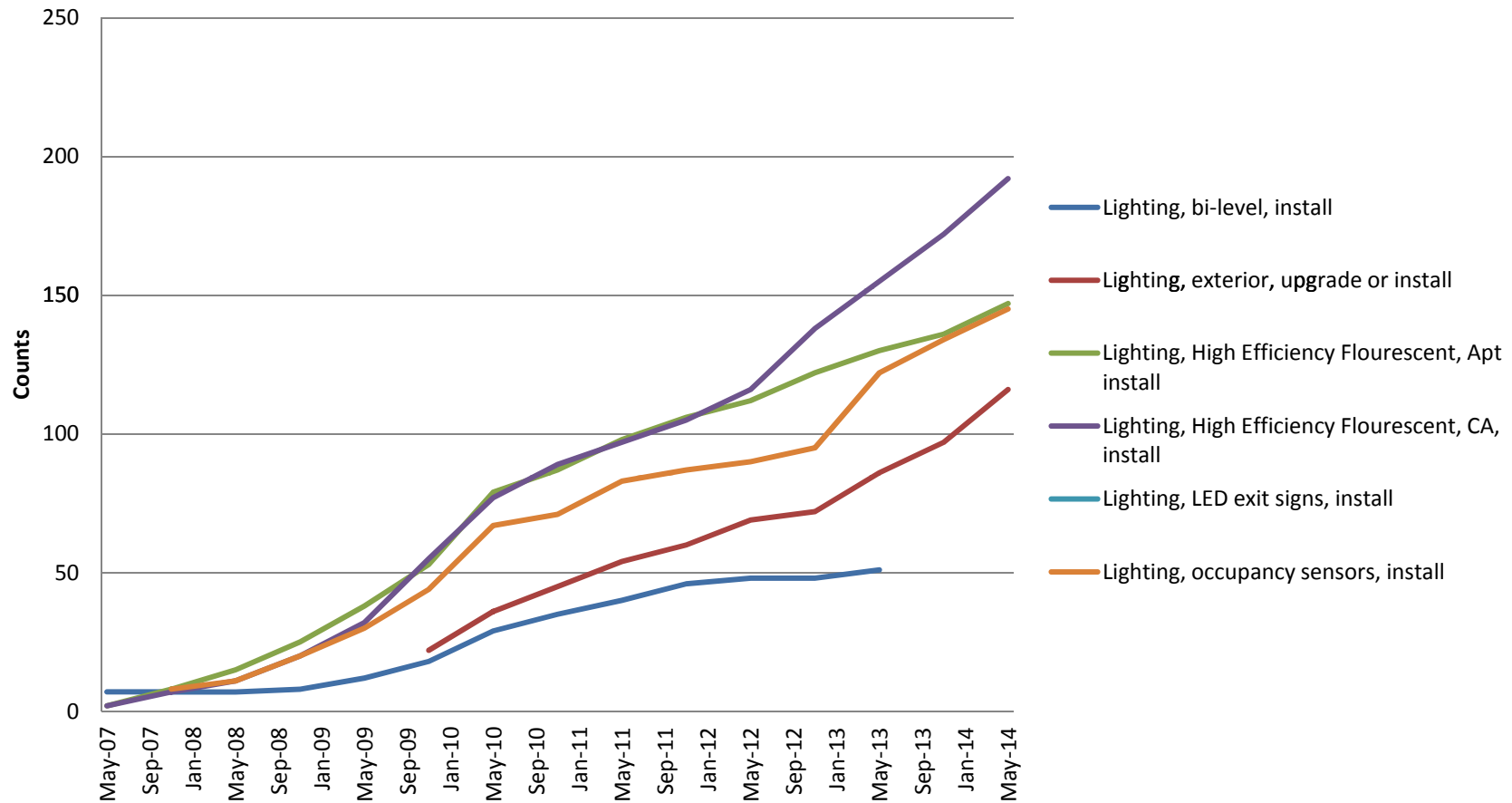
MPP Measure (Improvement) Trends

Affordable Market – New Construction - Envelope / Shell



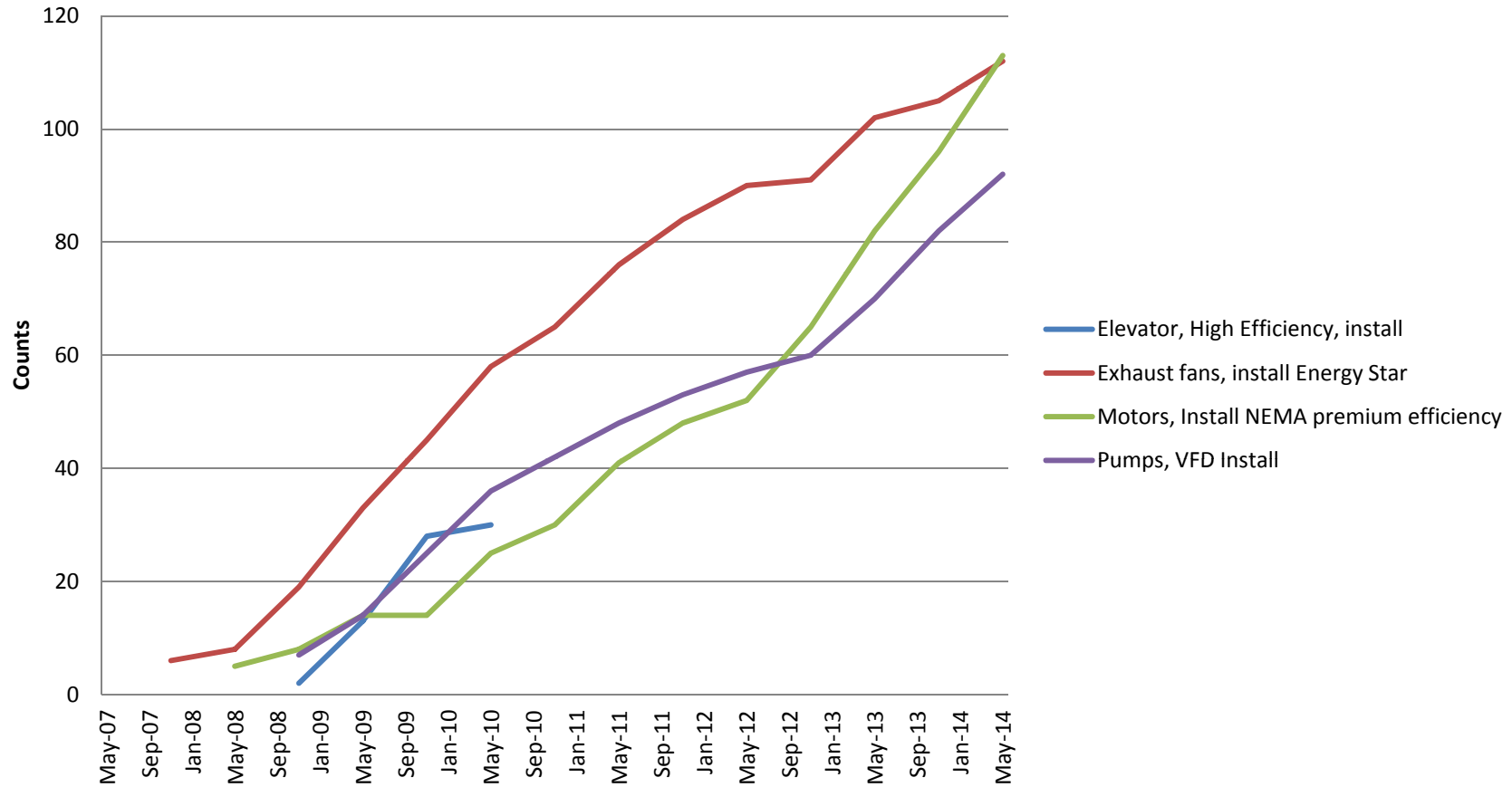
MPP Measure (Improvement) Trends

Affordable Market – New Construction - Lighting



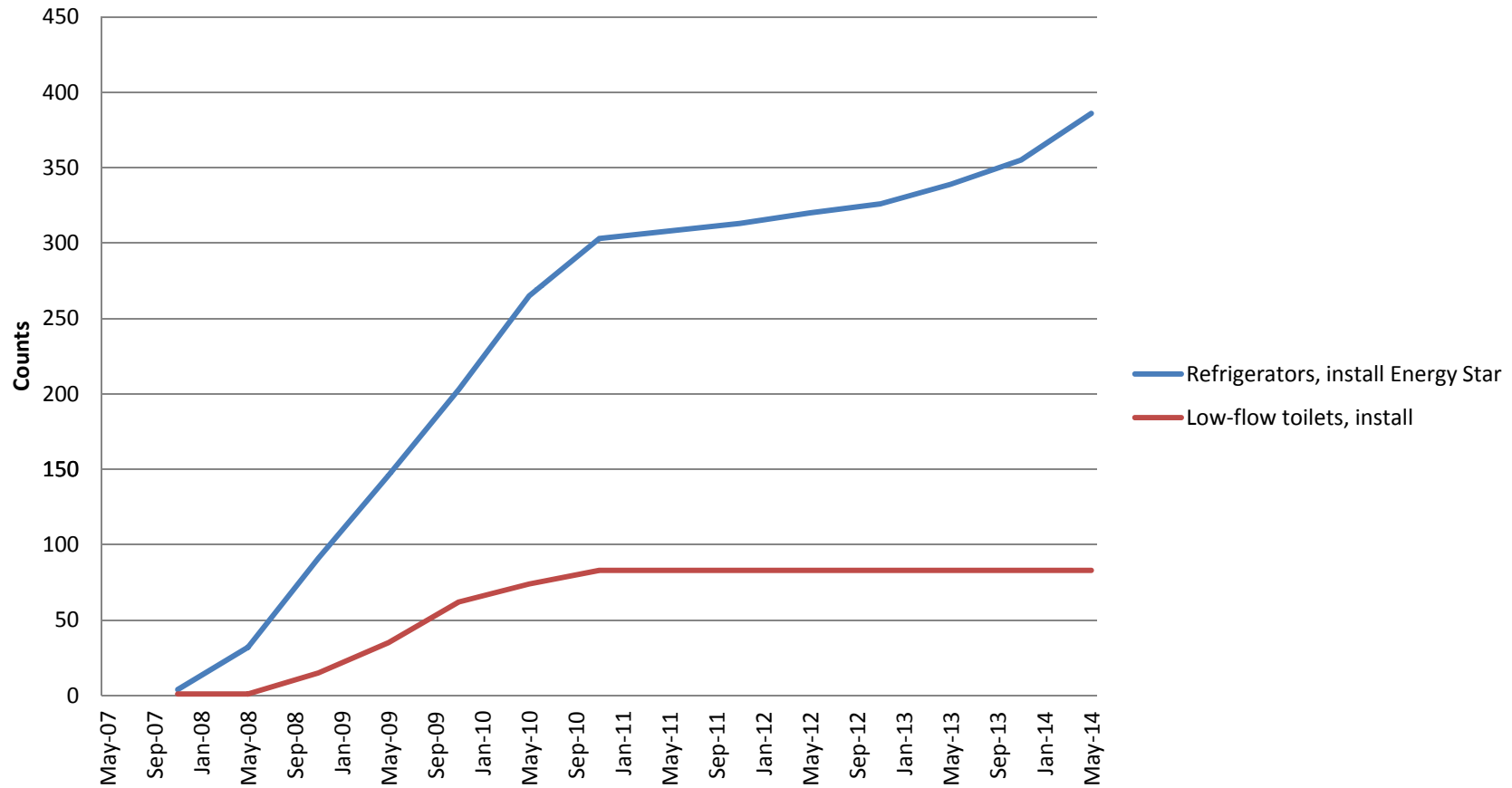
MPP Measure (Improvement) Trends

Affordable Market – New Construction - Motors



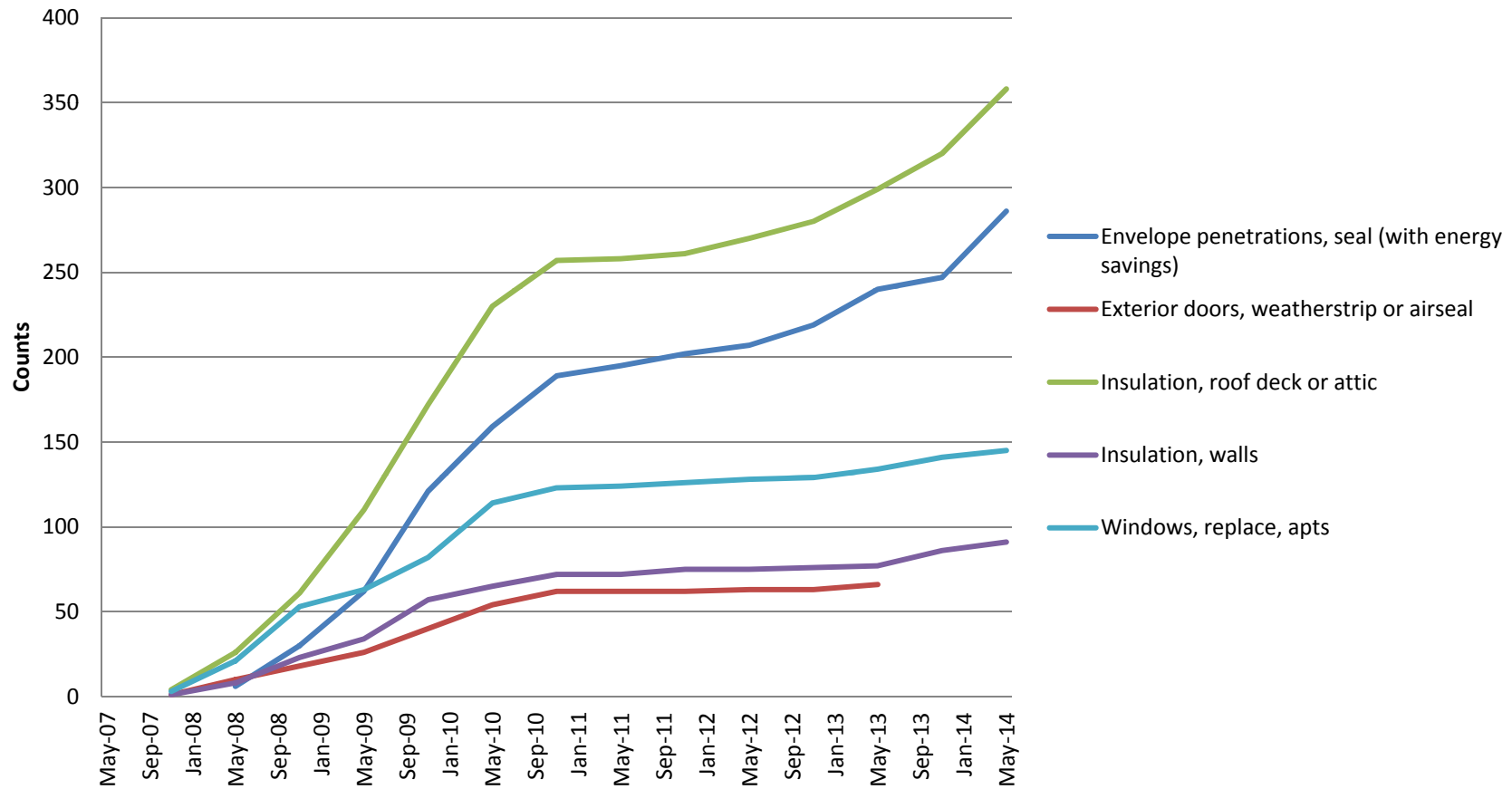
MPP Measure (Improvement) Trends

Affordable Market – Existing Buildings - Appliances & Low Flow Toilets



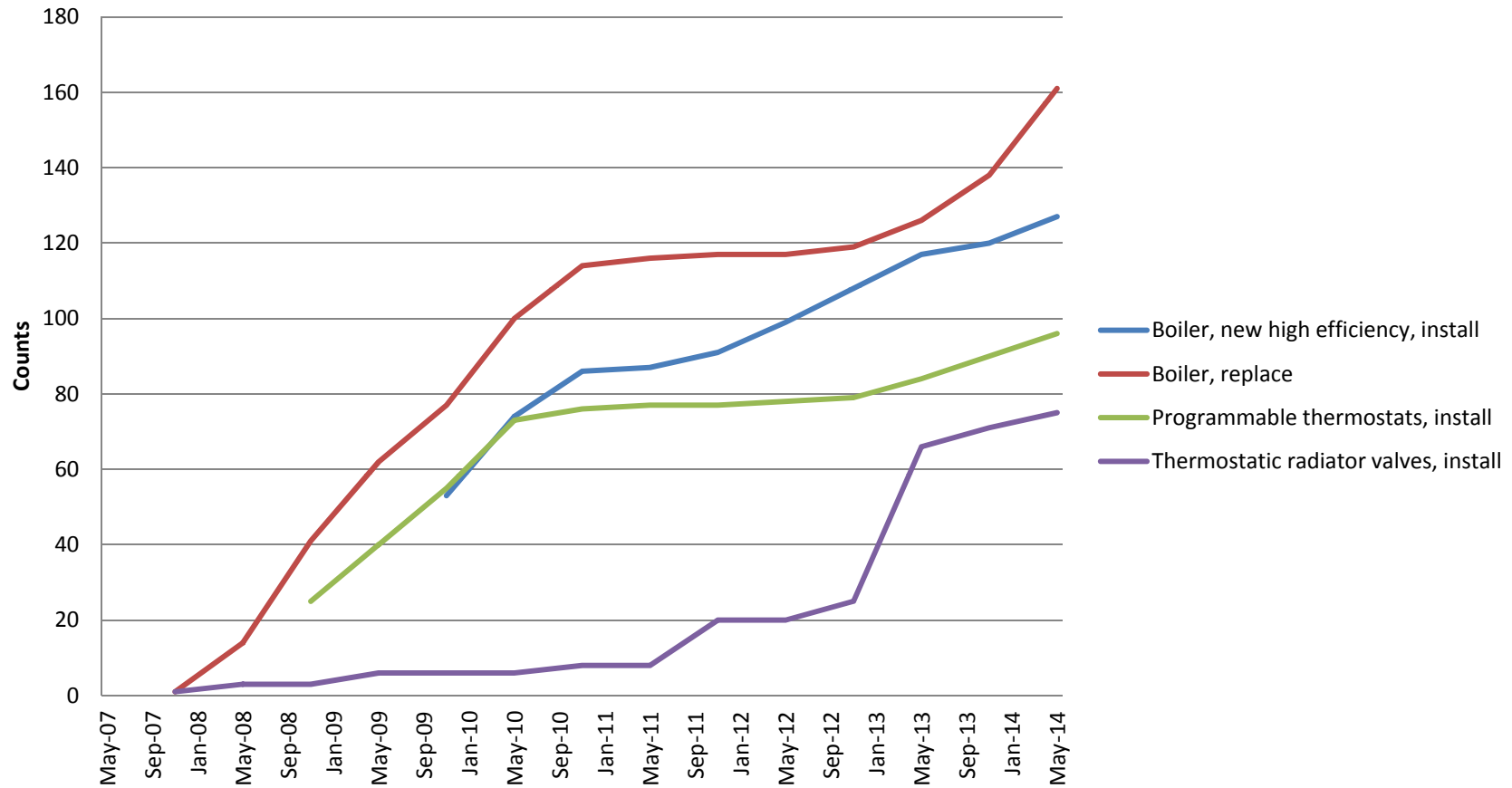
MPP Measure (Improvement) Trends

Affordable Market – Existing Buildings - Envelope / Shell



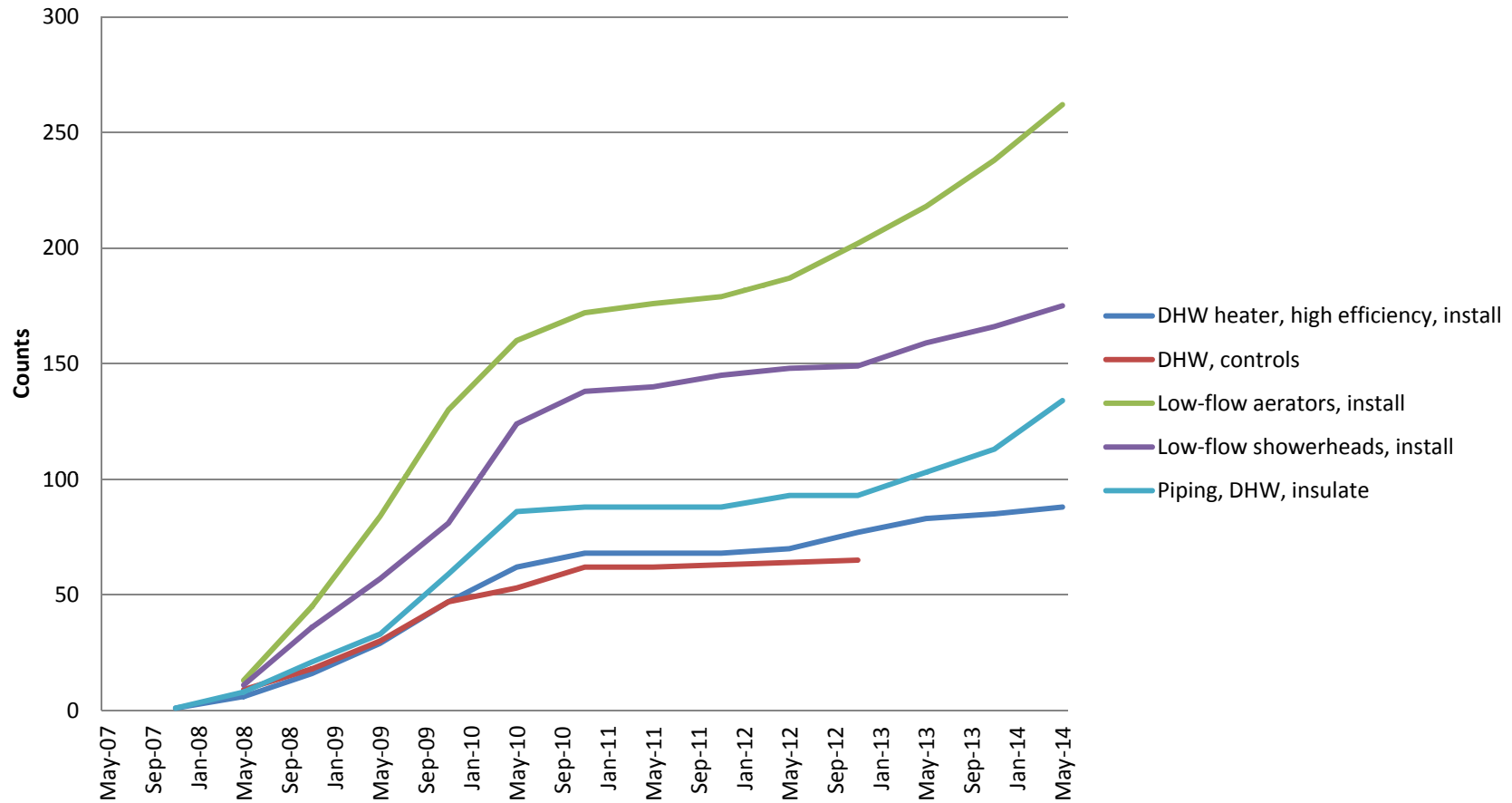
MPP Measure (Improvement) Trends

Affordable Market – Existing Buildings - Heating Systems



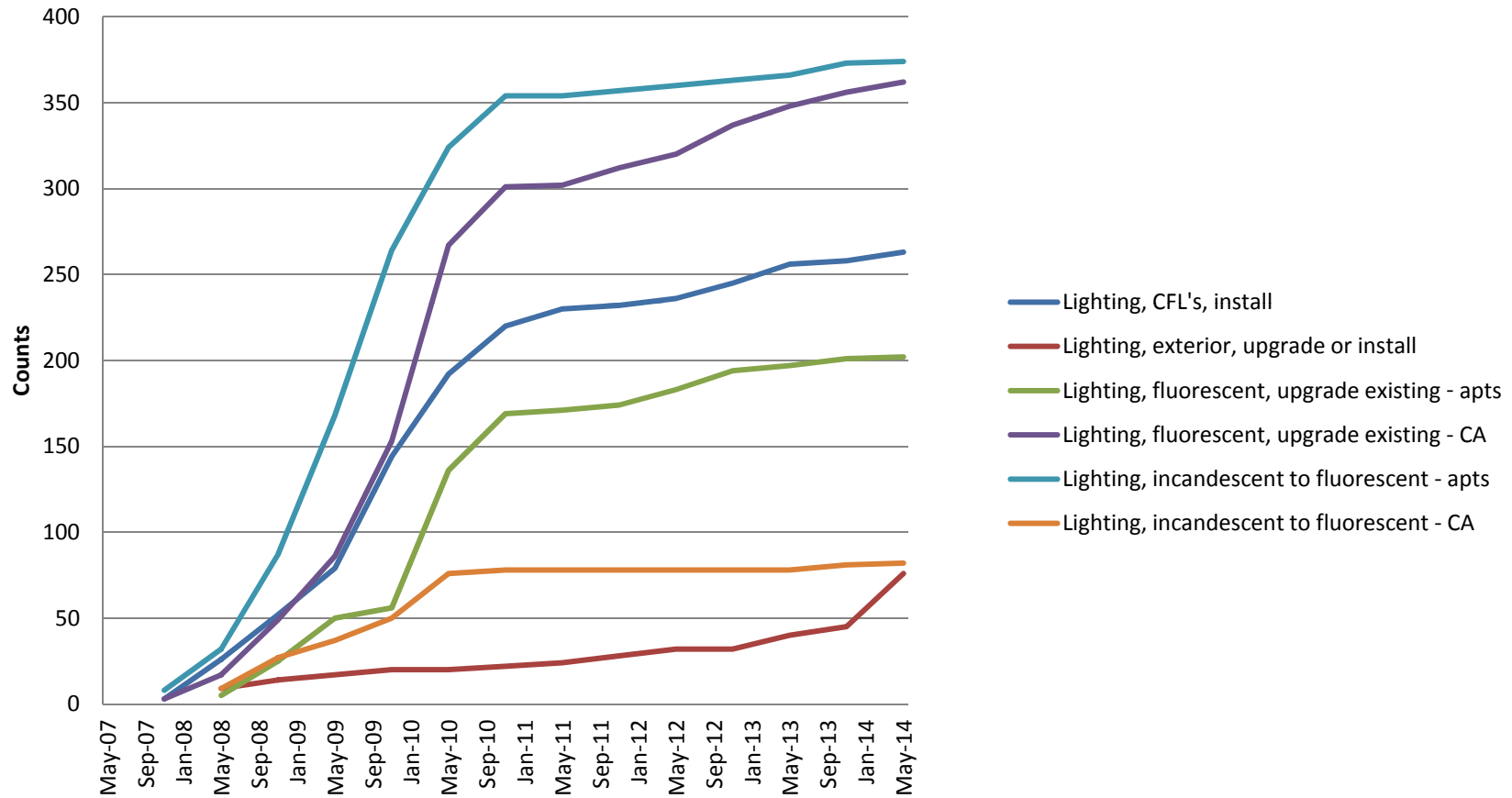
MPP Measure (Improvement) Trends

Affordable Market – Existing Buildings - Hot Water



MPP Measure (Improvement) Trends

Affordable Market – Existing Buildings - Lighting



Q & A

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Thank you.