



CITY OF
HAYWARD
HEART OF THE BAY

**Summary of Community-Wide and
Municipal Energy Use and Efforts to
Improve Efficiency**

November 12, 2013

Erik Pearson, *Environmental Services Manager*
Public Works Department - Utilities & Environmental Services



Four Sections of Report

1. Energy Efficiency in the Community
2. Energy Use by the Community
3. Energy Efficiency at City Facilities
4. Energy Use at City Facilities



Energy Efficiency Programs for the Community

- Energy Efficiency & Conservation Block Grant Programs
- Energy Upgrade California
- East Bay Energy Watch
- Home Energy Analyzer
- Energy Upgrade California Multifamily Program
- Pay As You Save (PAYS)



Energy Efficiency & Conservation Block Grant

- Large Energy Users
- Non-Profits & Governmental Agencies
- Residential
- LED Streetlights
- Contract Sustainability Coordinator

Total Grant = \$1,361,900



Community-Wide Energy Use

Overall energy usage

This is the breakdown between **Non-Residential** and **Residential** energy usage in 2012 for Hayward.

6,805,662

million British thermal units
in 2012*

Energy usage has
changed by 1.0% since
2005

This is the Year over Year
change in overall energy
usage from the prior year

*Consumption has been converted to British thermal units (Btu) to compare electricity and natural gas usage

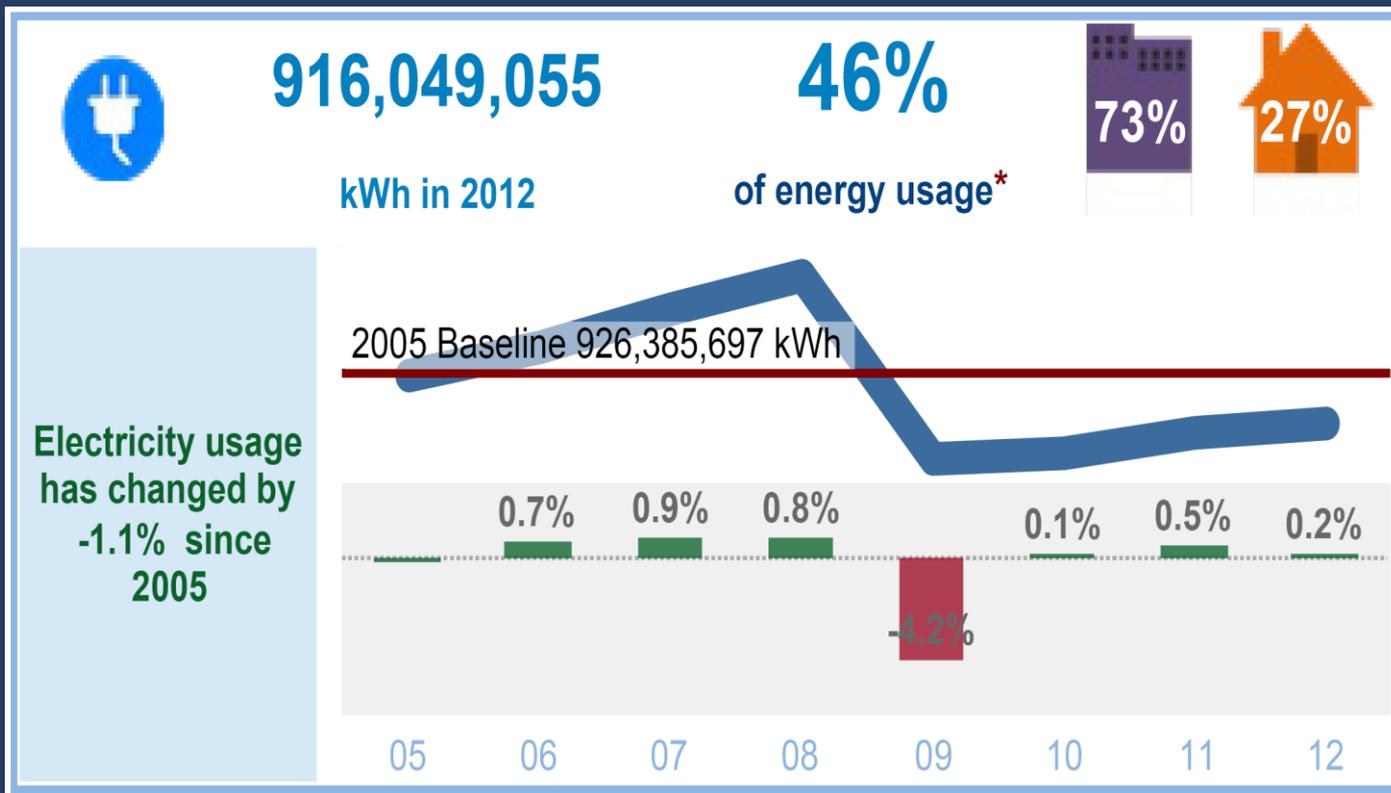
Non-Residential



Residential



Community-Wide Electricity Use



Community-Wide Natural Gas Use



36,801,026

Therms in 2012

54%

of energy usage *



Natural Gas Usage has changed by **2.9%** since 2005

2005 Baseline 35,777,152 Therms



Energy Efficiency at City Facilities

1. Peak Day Pricing
2. HVAC at City Hall
3. HVAC at Police Department
4. LED Streetlights
5. Lighting Upgrades at Multiple Facilities
6. Lighting Upgrades at Parking Structures
7. Energy Efficiency in Water and Wastewater Systems
8. Energy Efficiency at the Water Pollution Control Facility



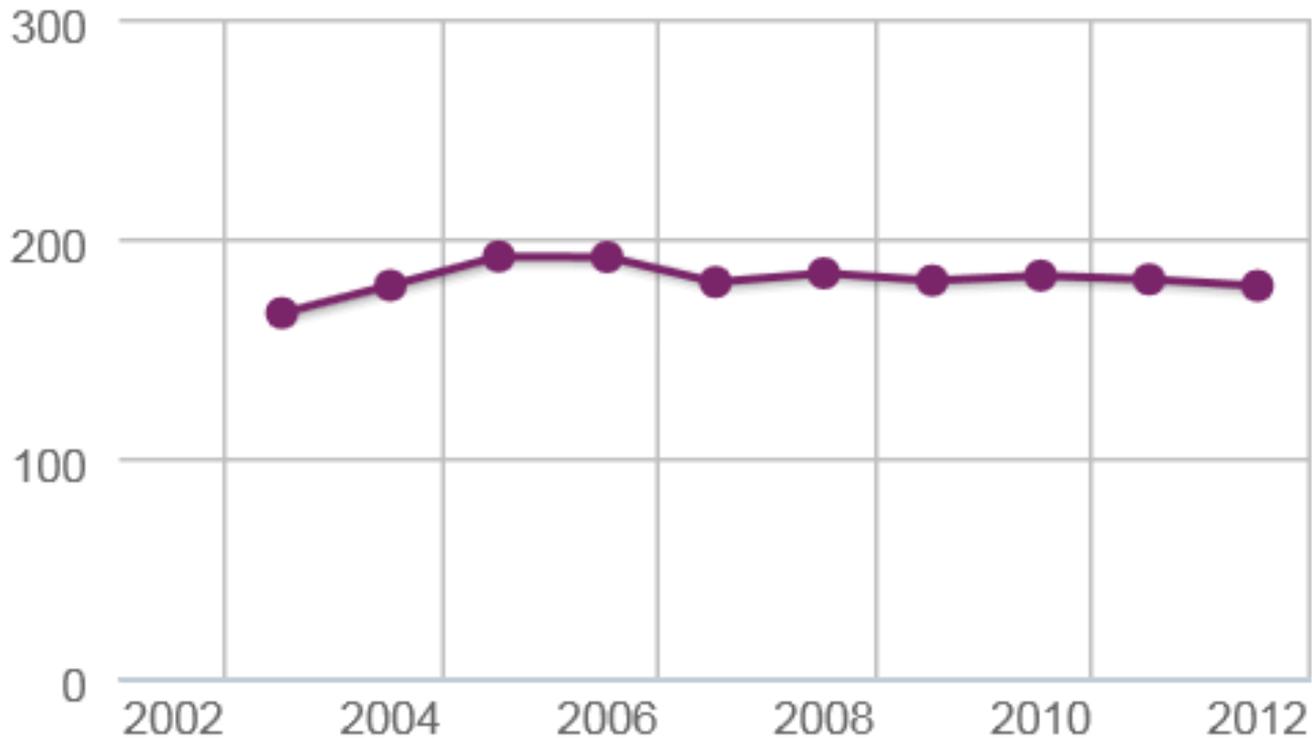
Energy Use at City Facilities

- Energy Use Intensity (EUI)
- National Comparisons
- Most of Hayward's Buildings are better than Nat'l average
- Track year over year changes



Energy Use at City Hall

Source EUI Trend (kBtu/ft²)



Comments by Council Sustainability Committee on October 2, 2013

- Gas & electricity use between 2005 and 2012
- Households participation in retrofit & efficiency programs
- Publicize our accomplishments
- City Hall energy use between 2003 - 2005



Questions?

Comments?

Discussion

