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Washington

June 28, 2013

## MEMORANDUM

**TO:** Council Members

**FROM:** Raquel Crosier, Washington Policy Analyst

**SUBJECT:** Safeco Field Energy Efficiency Program Presentation

Scott Jenkins the Safeco Field Operations Manager will brief the Council on Safeco's conservation investment program, which has resulted in savings of more than \$1.75 million in electricity, natural gas, water and sewer charges since 2006.

Retrofits at Safeco Field include updated lighting and mechanical systems, and installation of low-flow urinals and faucets, along with a variety of other measures. Since 2006, the Mariners have reduced the use of natural gas by 40%, electricity use by 25% and water use by 25%.

# **Safeco Field Sustainability Report on Energy Efficiency Programs**

**Scott Jenkins**

**Vice President Ballpark Operations**

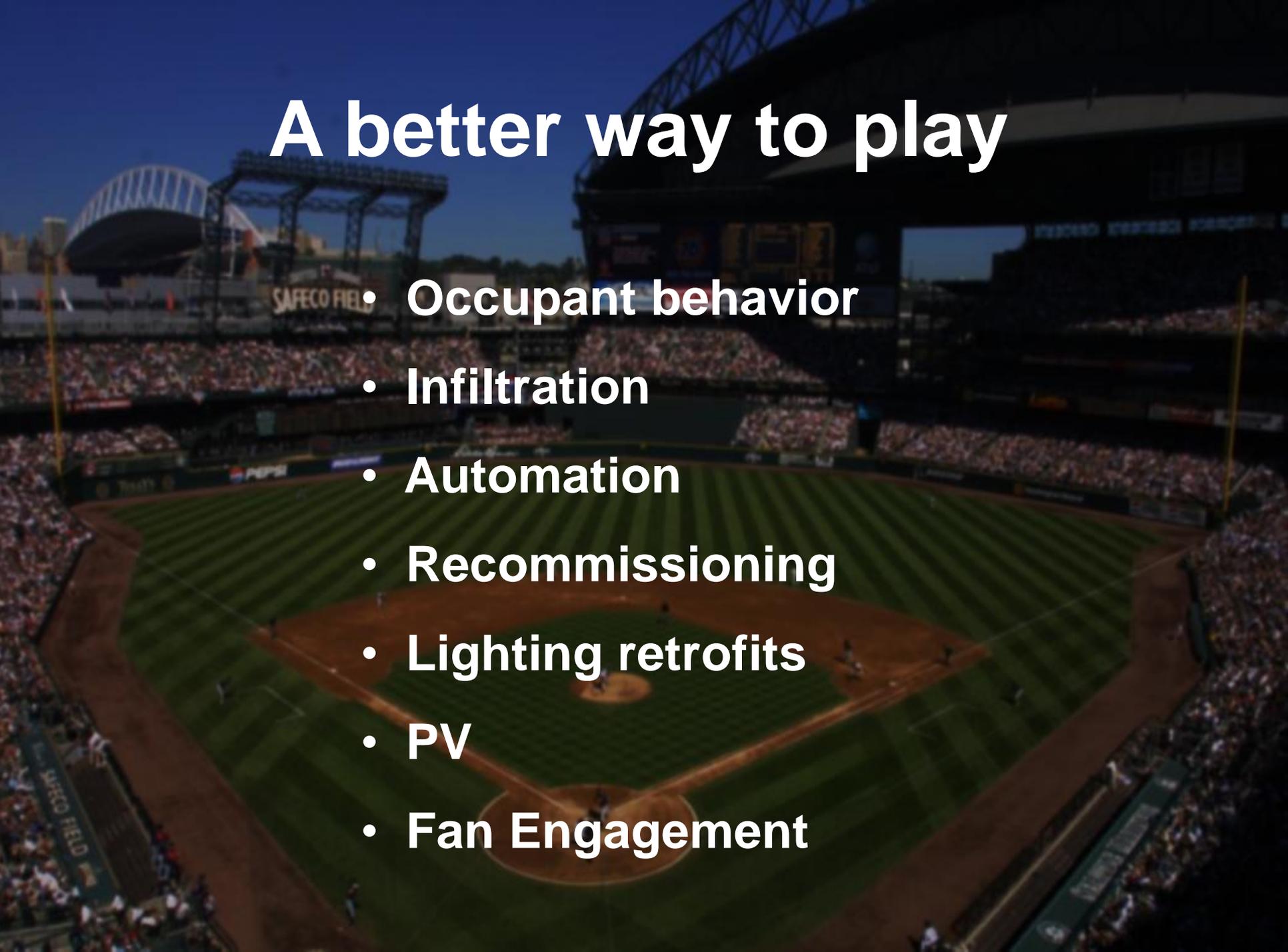
**Seattle Mariners**

**&**

**Chair of the Green Sports Alliance**



# A better way to play

An aerial view of Safeco Field baseball stadium at night. The field is illuminated, and the stands are filled with spectators. The stadium's architecture, including the retractable roof and lighting towers, is visible in the background.

- Occupant behavior
- Infiltration
- Automation
- Recommissioning
- Lighting retrofits
- PV
- Fan Engagement

# Zero Waste Mindset



**SEATTLE MARINERS**

**Strike Out the Landfill**

Made in Denmark made of recycled PET. BASF The Chemical Company



**Food+ Compostables**

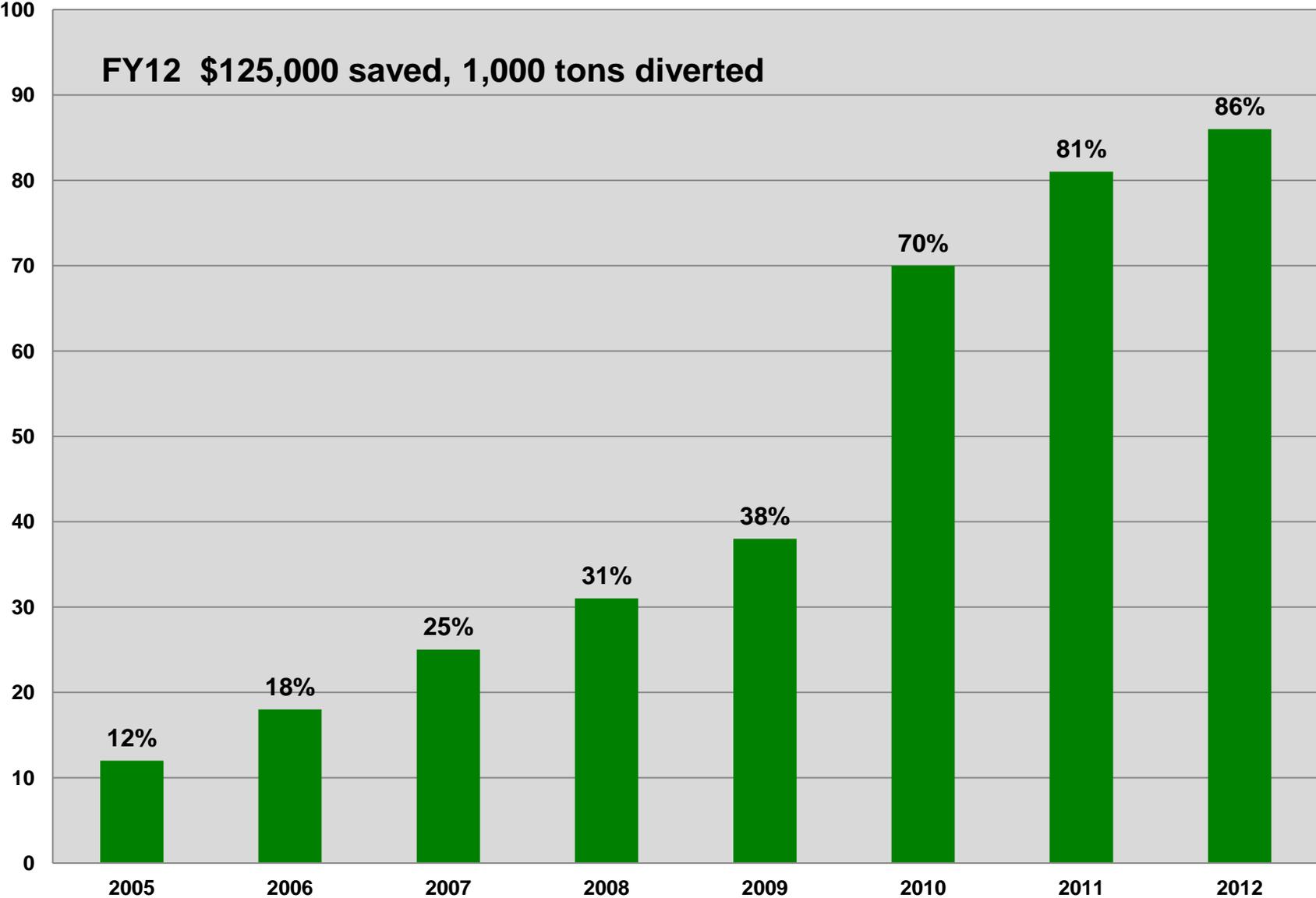


**Bottles**

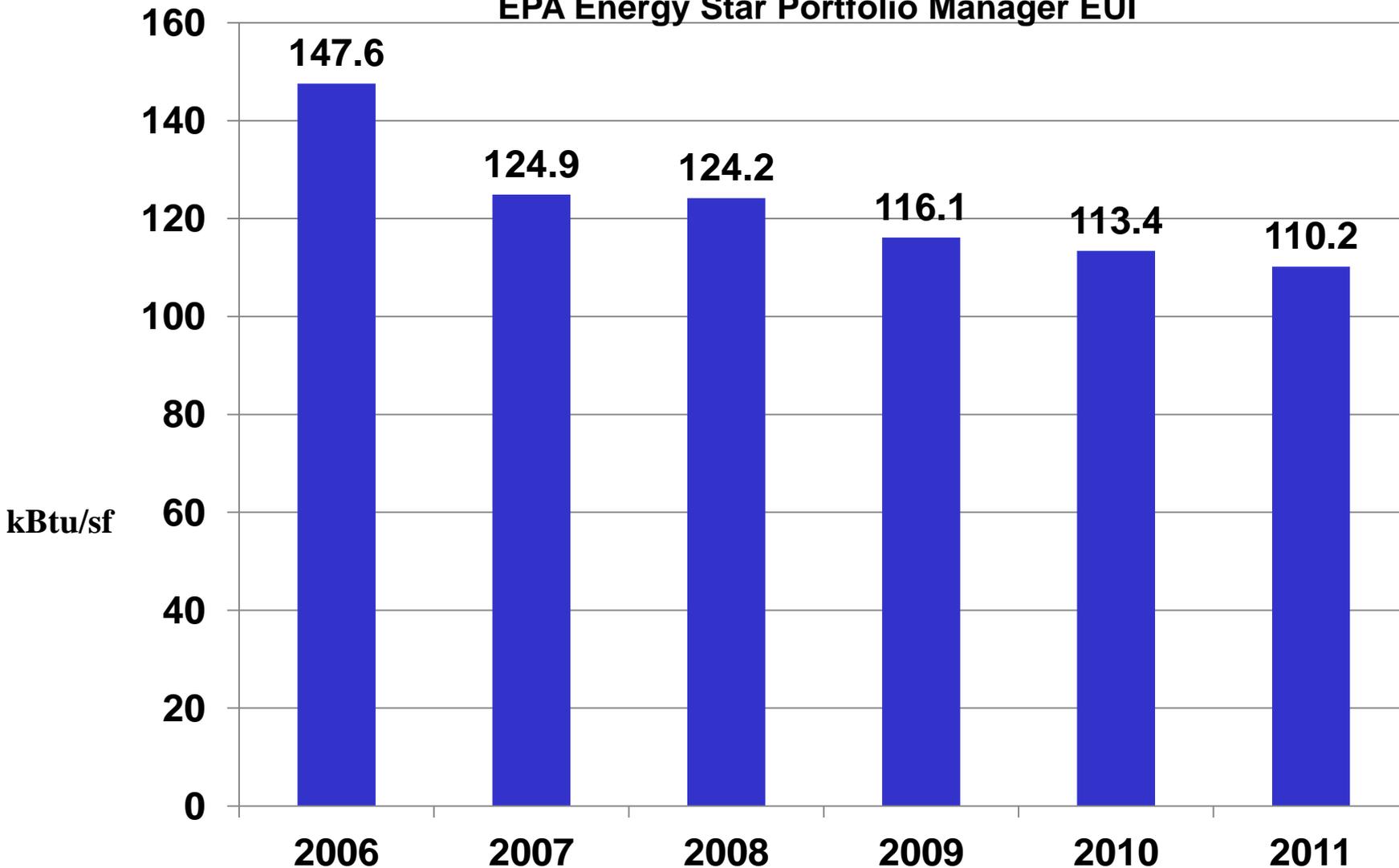


**Landfill**

# Annual Diversion Rate



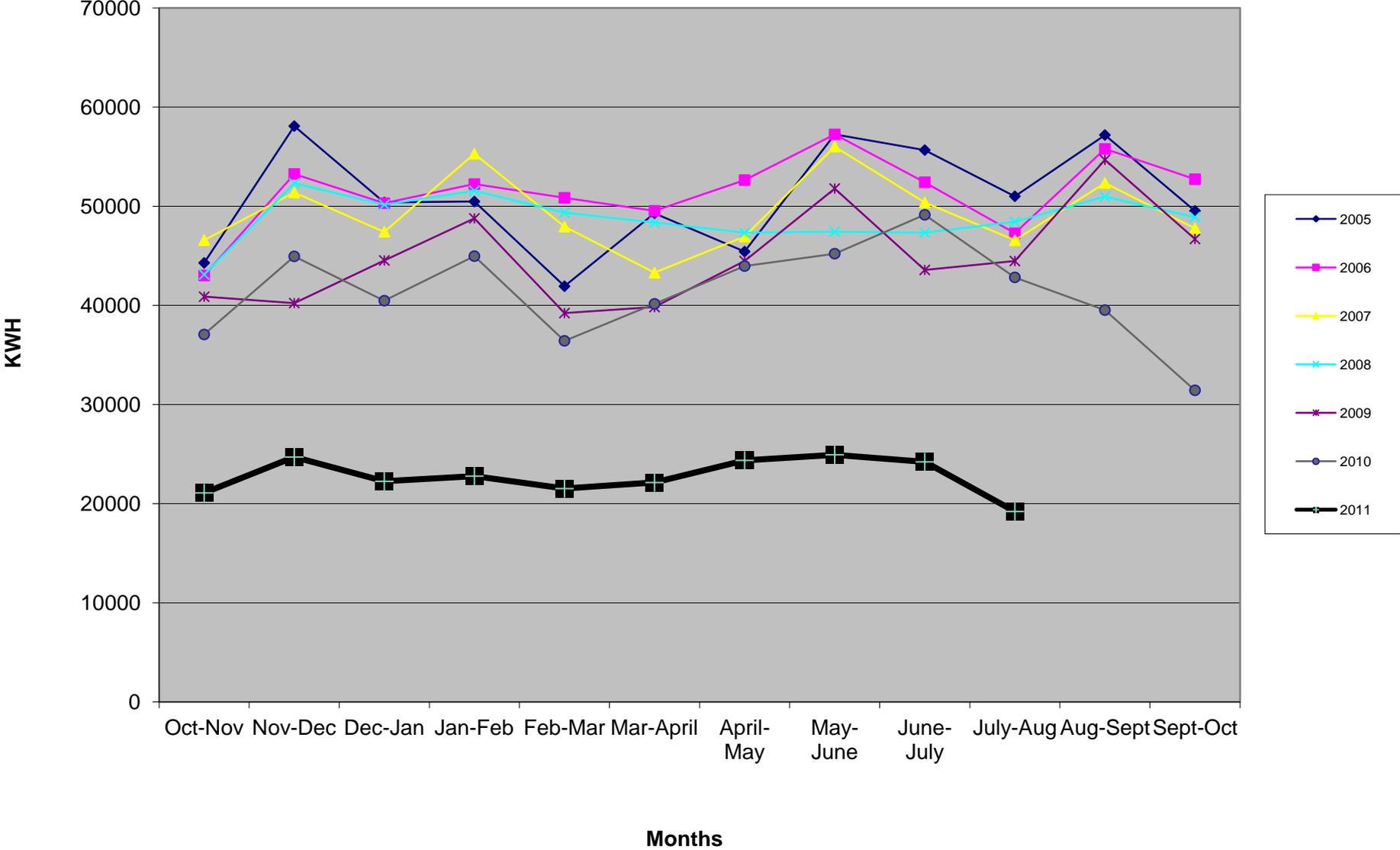
# EPA Energy Star Portfolio Manager EUI



**6 yr. Savings = \$ 1,756,878**

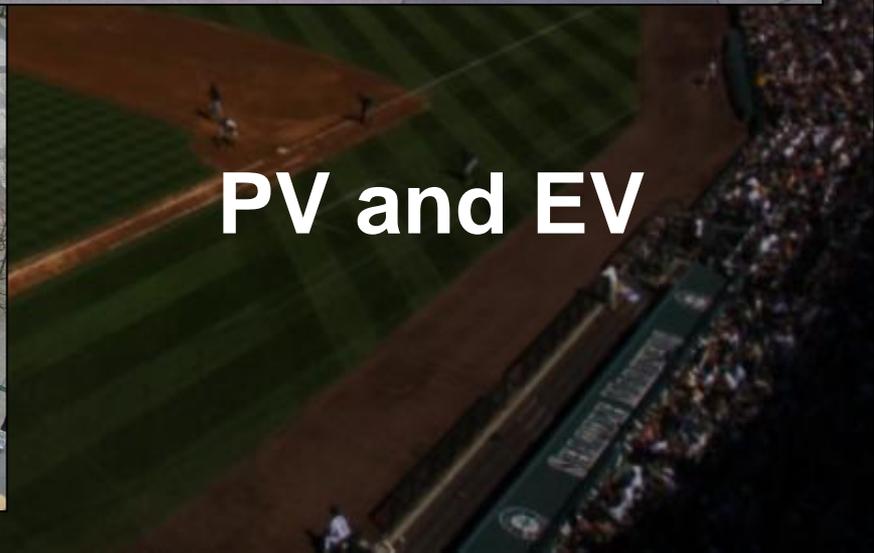
**25% Reduction MLB Teams = \$16.5 Million/yr.**

# Garage Lighting Retrofit





**800w of incandescent lights  
replaced by 80w of LED**



**PV and EV**



# Fan Engagement



**New LED Display saves  
1 million Kwh/yr.**

Projected 24h Cost

2,171.2

Current Power Cost

90.465

Current Power Use

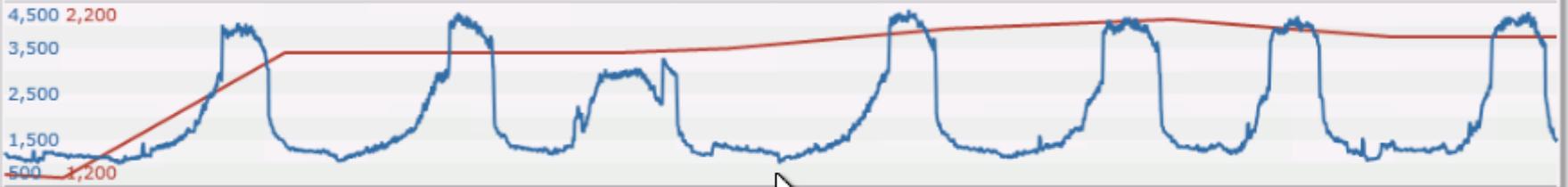
1,459.1

24h Average Use

2,009.1

Mariners...ricity

Electricity|Current Hourly Usage 1,459.1 kW | Electricity|24h Average Usage 2,009.1 kW



Projected 24h Cost

2,333.3

Current Water Cost

97.222

Current Water Use

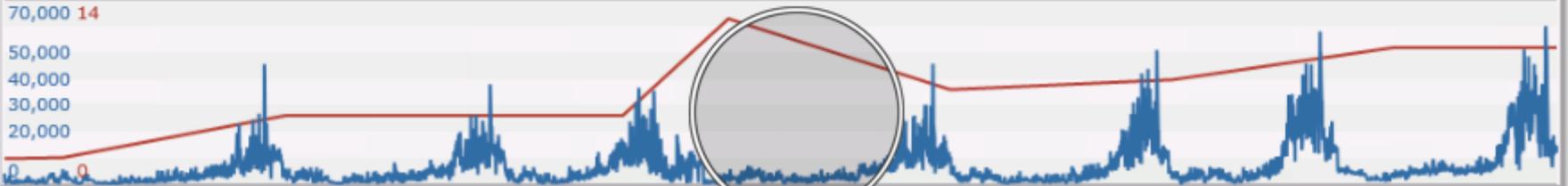
14,344

24h Average U

10.377

Mariners - Water

Water|Current Hourly Usage 14,344 CCF/h | Water|24h Average Usage 10.377 CCF/h



6/2/2013 5:38:40 PM

1h 8h 1d 1w 1mo

Now

6/9/2013 5:38:40 PM

# Energy Dashboard



# Common Sense Solutions

# On deck: Wastewater District Energy?

## Waste Wattage: Cities Aim to Flush Heat Energy Out of Sewers



The False Creek Energy Centre in Vancouver is the first big system for wastewater heat recovery in North America; its exhaust stacks have been transformed into public art.

### Trending News



#### World's Oldest Genome Sequenced

A 700,000-year-old horse leg bone has yielded the world's oldest complete genome.



#### Bumper Crop of Habitable Worlds?

Astronomers discover three potentially habitable worlds orbiting a star 22 light-years away from Earth.



#### Stonehenge Mysteries Revealed

Archaeologist Mike Parker Pearson discusses how Stonehenge fit with the solstices.

### ADVERTISEMENT



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# GREEN SPORTS ALLIANCE

A better way to play

**Our mission is to help sports teams, venues, and leagues enhance their environmental performance**

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