

# Energy Accounting and the Role of AFRS

## Tracking the dollars to track energy consumption

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# Background

Reduce energy consumption and greenhouse gas emissions with respect to state operated buildings;

- RCW 43.19.670 Energy Conservation
- RCW 19.27A.190 Qualifying Public Agency Duties – Energy Benchmarking
- RCW 70.235.050 Greenhouse Gas Emission Limits for State Agencies
- Executive Order 12-06 Achieving Energy Efficiency In State Buildings
- Executive Order 14-04 Washington Carbon Pollution Reduction and Clean Energy Action

“Washington State does a great job of tracking dollars but not as good at tracking energy”

# Problem

- No common baseline to measure energy reduction from
- No one knows how much energy state buildings consume
- No accurate understanding of how much is being spent on energy
- Without knowing how much energy is consumed you can't calculate how much Greenhouse Gas is being emitted or how much improvement has been made from a baseline

# Quiz

- Total spent on building energy by executive state agencies 2014?
  - \$56,963,070.29
- Total EC Reported 2014?
  - \$214,176,380.28

We think?

# Challenge

- Energy type is not currently tracked constantly AFRS

Fiscal Year	Agency	Agency Title	Su	Subsubob	Subsubject Title	Energy Source	GL Amount
2014	405	Department of Transportation	EC		Not Specified	Not Specified	15,307,452.42
2012	405	Department of Transportation	EC		Not Specified	Not Specified	14,813,357.78
2013	405	Department of Transportation	EC		Not Specified	Not Specified	14,667,678.02
2010	405	Department of Transportation	EC		Not Specified	Not Specified	14,078,348.18
2011	405	Department of Transportation	EC		Not Specified	Not Specified	14,078,121.19
2014	179	Department of Enterprise Services	EC	1104	Electricity	Electricity	4,694,419.85
2014	179	Department of Enterprise Services	EC	1108	Natural Gas	Natural Gas	1,100,773.13
2014	179	Department of Enterprise Services	EC	1109	1500 Jefferson Street Utilities		408,973.74
2014	300	Dept of Social and Health Services	EC	2110	Electricity-Leased Facility	Electricity	2,397,762.72
2014	300	Dept of Social and Health Services	EC	2120	Naturalgas-Leased Facility	Natural Gas	310,119.15
2014	300	Dept of Social and Health Services	EC	9110	Electricity-State Owned	Electricity	4,020,716.80
2014	300	Dept of Social and Health Services	EC	9120	Natural Gas-State Owned	Natural Gas	2,866,696.40
2014	310	Department of Corrections	EC	2260	Electricity	Electricity	8,942,461.30
2014	310	Department of Corrections	EC	2270	Natural Gas	Natural Gas	5,320,825.40
2013	179	Department of Enterprise Services	EC		Not Specified	Not Specified	405,077.46

# Challenge

- Energy type is not listed constantly in AFRS
- Non energy items are listed

Row Labels
Electric
Electricity
Electricity Expense
Electricity/Gas
Electricity/Natural Gas
Electricity-Leased Facility
Electricity-State Owned
Electrity
Hps Elect/Gas 1007 WA Bldg (Incl Sen Rei
<b>Grand Total</b>

Subsubject Title
Garbage
Sewer
Water
Water, Sewer, Garbage
Ticket Destruction
Recycling
Recycling/Shredding
Irrigation
Contaminated Waste
Solid Waste Disposal
Cable TV
Bottled Water Returns & Deposits
Cardboard Recycling
Metal Recycling
Grease Recycling
Infectious Waste
Prescription Drug Return & Destru
Resident Cable Services
Water Testing
Fire Protection
Shredding
Sewer & Water

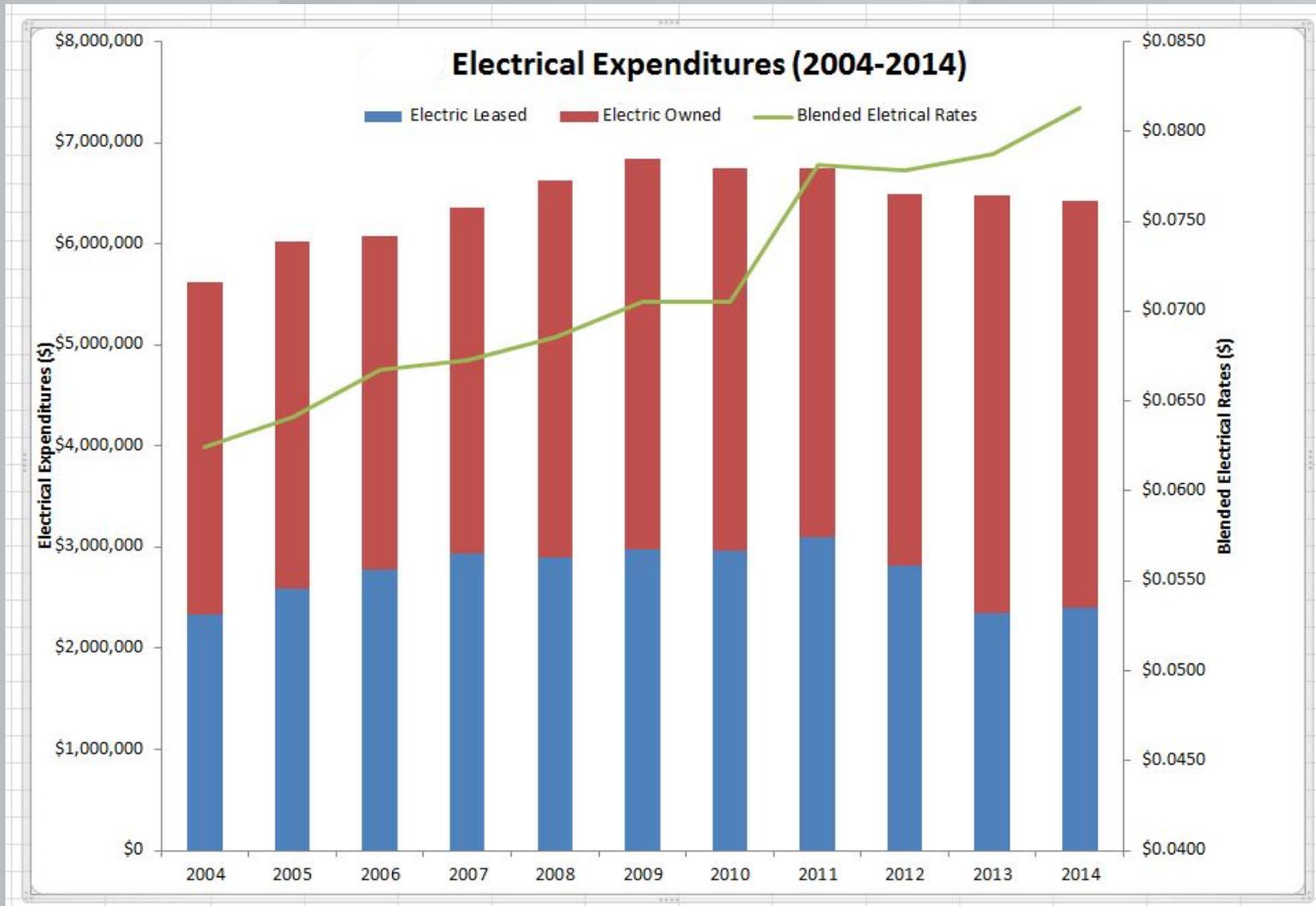
# Solutions

- Work with agencies to use to common energy subsubject titles in AFRS
  - Electricity      Electricity Leased
  - Natural Gas      Natural Gas Leased
  - Diesel
  - Steam
  - Coal
  - Propane
  - Vehicle Gasoline
  - Vehicle Diesel
- Get the word out as to the value in tracking energy expenses more accurately to encourage cooperation

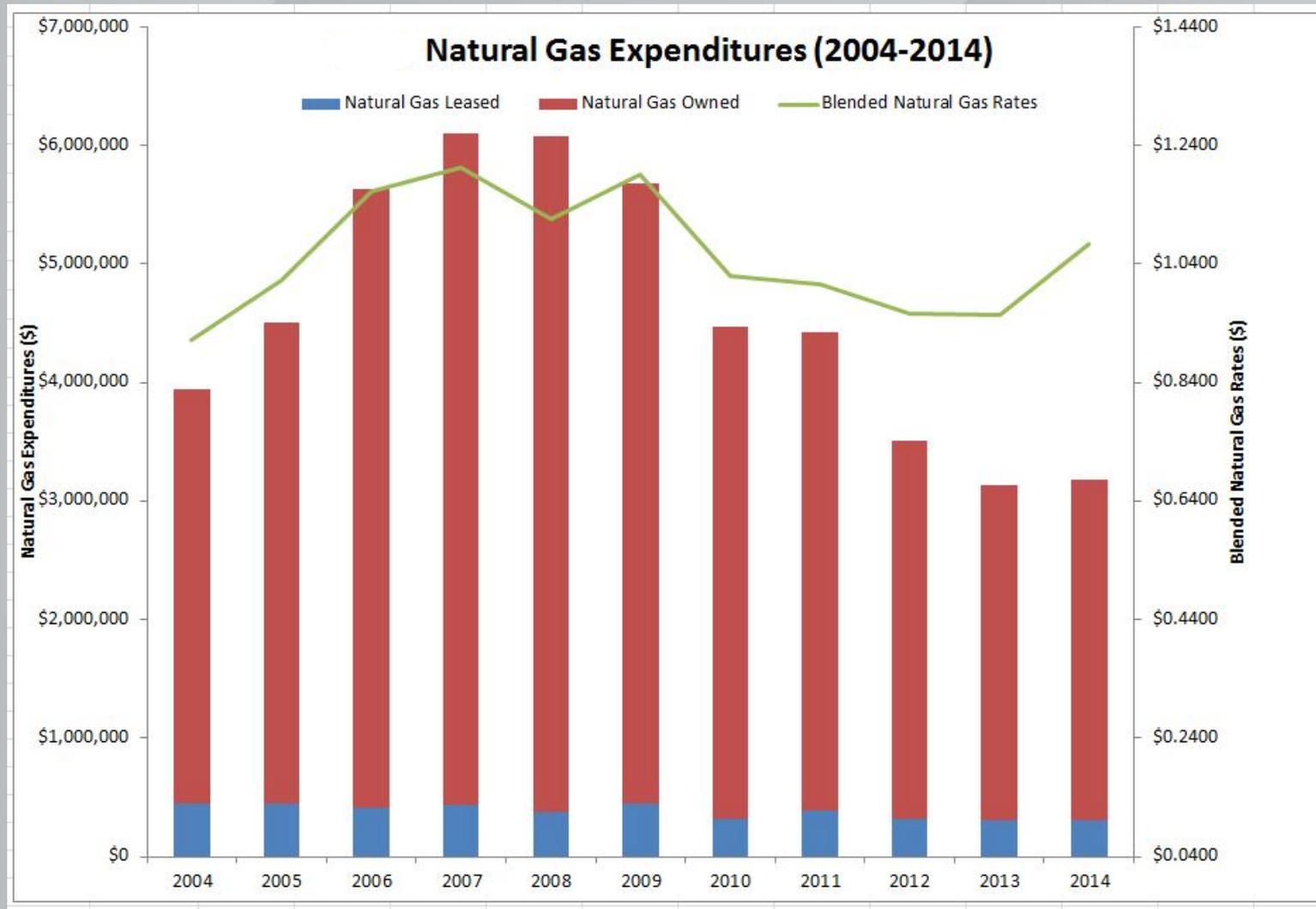
# Advantages

- Track the dollars spent on energy more consistently
- Convert to units of energy consumed
- Calculate Greenhouse Gas Emissions
- Track and celebrate reductions

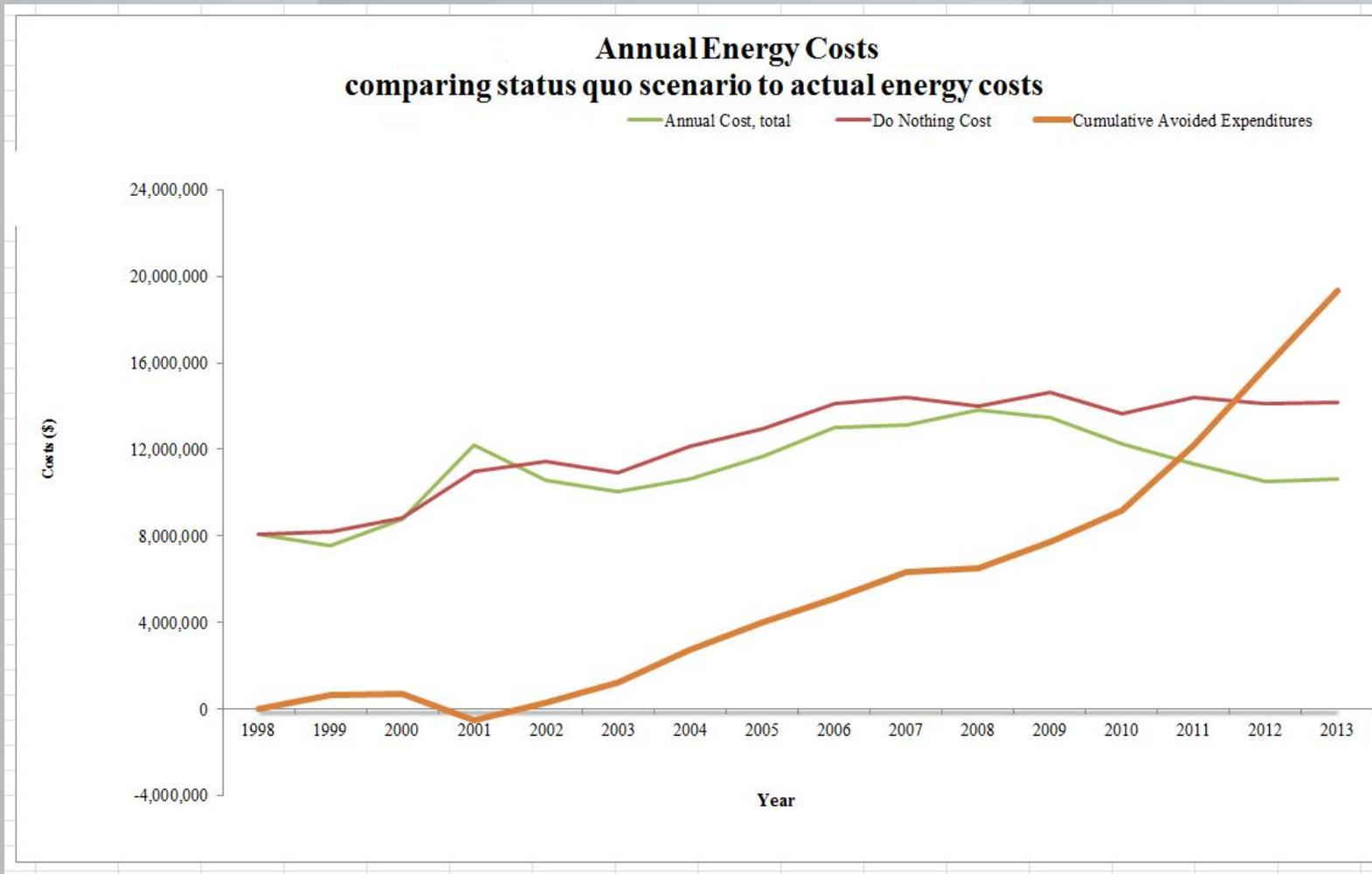
# Results



# Results



# Results



# Thank you !

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