

Arlington Initiative to
***Rethink
Energy***



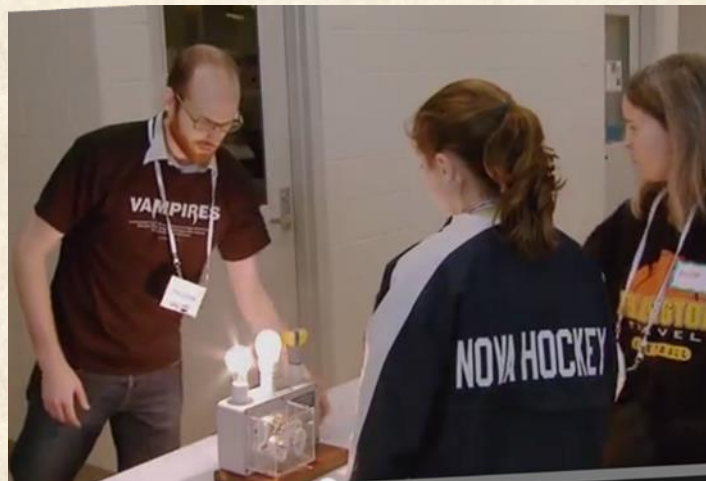
Energy Efficiency in Arlington County

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Arlington Initiative to Rethink Energy

- Overview of program
- Recent highlights
- Focus on recent successes with LEDs.



Arlington Initiative to Rethink Energy

- Launched 2007, built upon existing programming
- Local government action on climate change
- Goal: Cut GHG emissions from operations 10% by 2012
- Energy efficiency focus, with cleaner power & fuels
- Community engagement, develop community plan



Arlington Initiative to
**Rethink
Energy**

Success!

Efficiency adds up. Arlington County reduced energy use—even as it increased services.

12%
total
emissions
reduction

2000-2012

{ **\$850,000** saved from
efficiency improvements
in 2012 alone }

15%
reduction
in building
energy intensity

250
solar panels
installed on
Central Library

144
hybrid or
electric vehicles
in County fleet

2,500+
LED streetlights
and traffic signals
installed

BE SMART. THINK LESS.

Building Upon Success

- Community Energy Plan adopted June 2013
New element of Comprehensive Plan
- Headline Goal:
Cut GHG emissions from 13 mt/capita to 3 mt/capita by 2050
- Loading order:
 1. Improve energy efficiency
 2. Pursue heat recovery (large and small)
 3. Renewables as clean fuel
 4. Integrated planning with distributed generation

Building Upon Success

- How achieve 75% improvement in 35 years?
- Raise the bar – we joined the DOE Better Buildings Challenge
- Interim target: 20% reduction in energy/sq. ft. by 2020 vs. 2009.



Building Upon Success

- How achieve 75% improvement in 35 years?
- We raised the bar – joined the DOE Better Buildings Challenge
- Interim target: 20% reduction in energy/sq. ft. by 2020 vs. 2009.
- With gains made 2000–2012, how are we going to get *another* 20 percent?



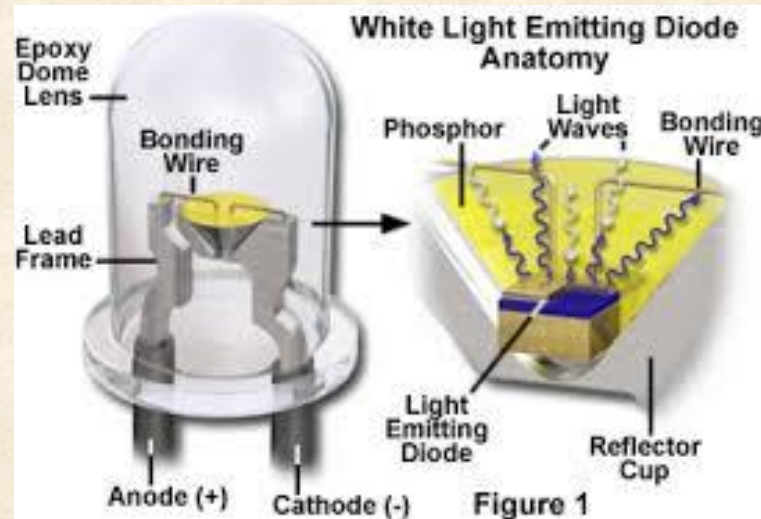
Building Upon Success

- Retrofits; retro-commissioning; schedule smart; new technology.



Building Upon Success

The mighty white LED...



... worth a Nobel Prize

Ballston Garage LED retrofit

2,800 parking space garage, 7 floors, built 1950s

Home to NHL Washington Capitals' practice facility on *top*, 2006

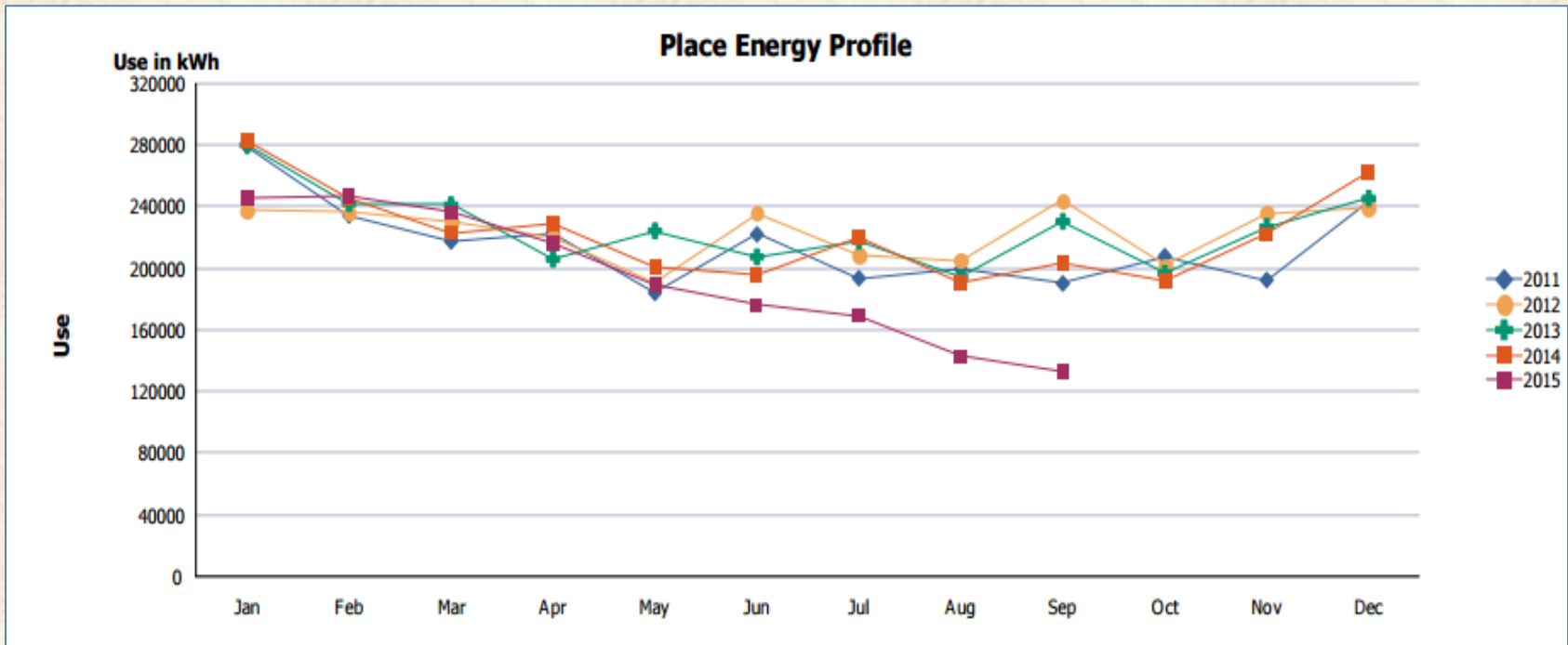


Ballston Garage LED retrofit

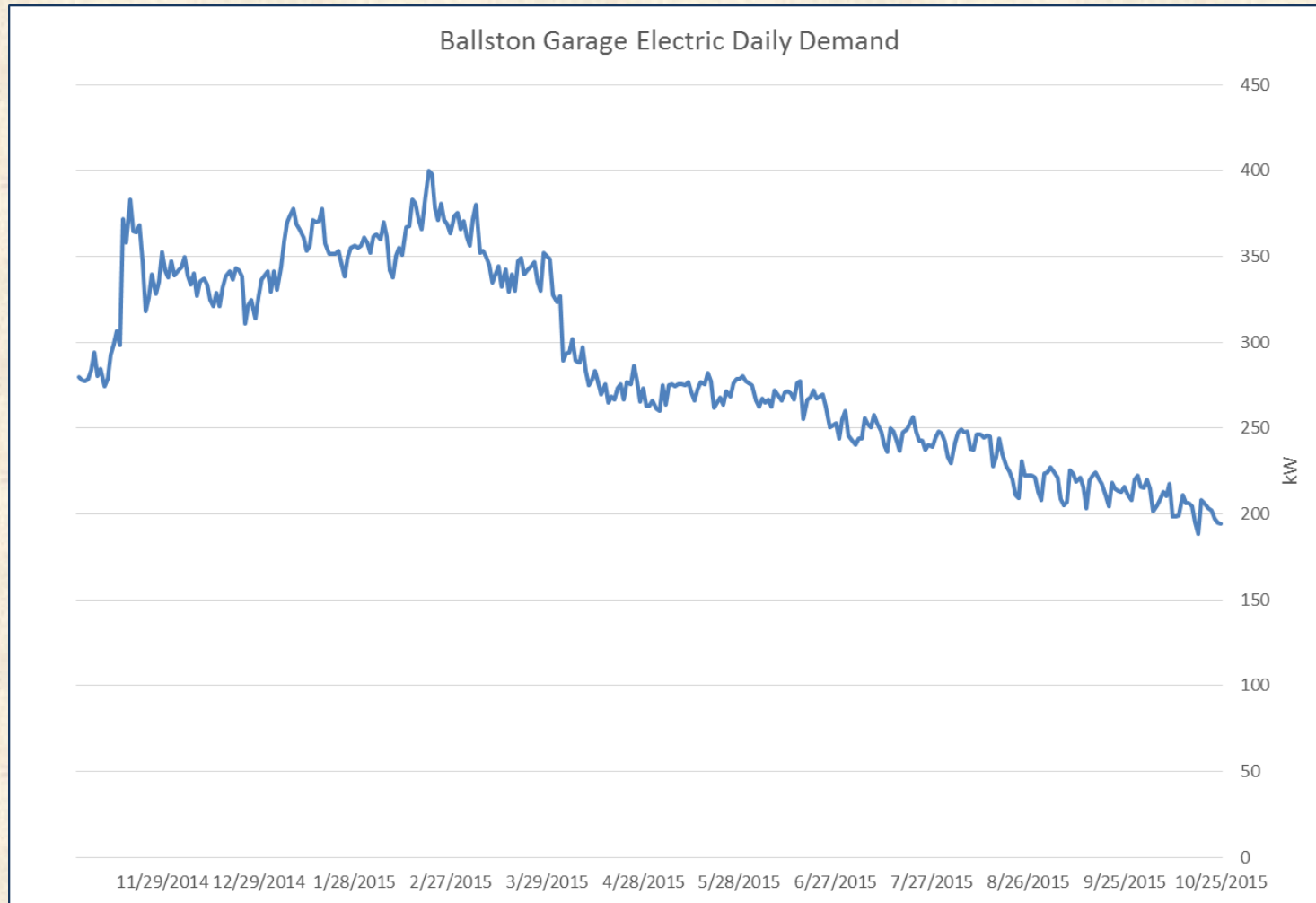


Ballston Garage LED retrofit

~\$100,000 annual savings (power + maintenance)
~ 1 million kWh annual savings



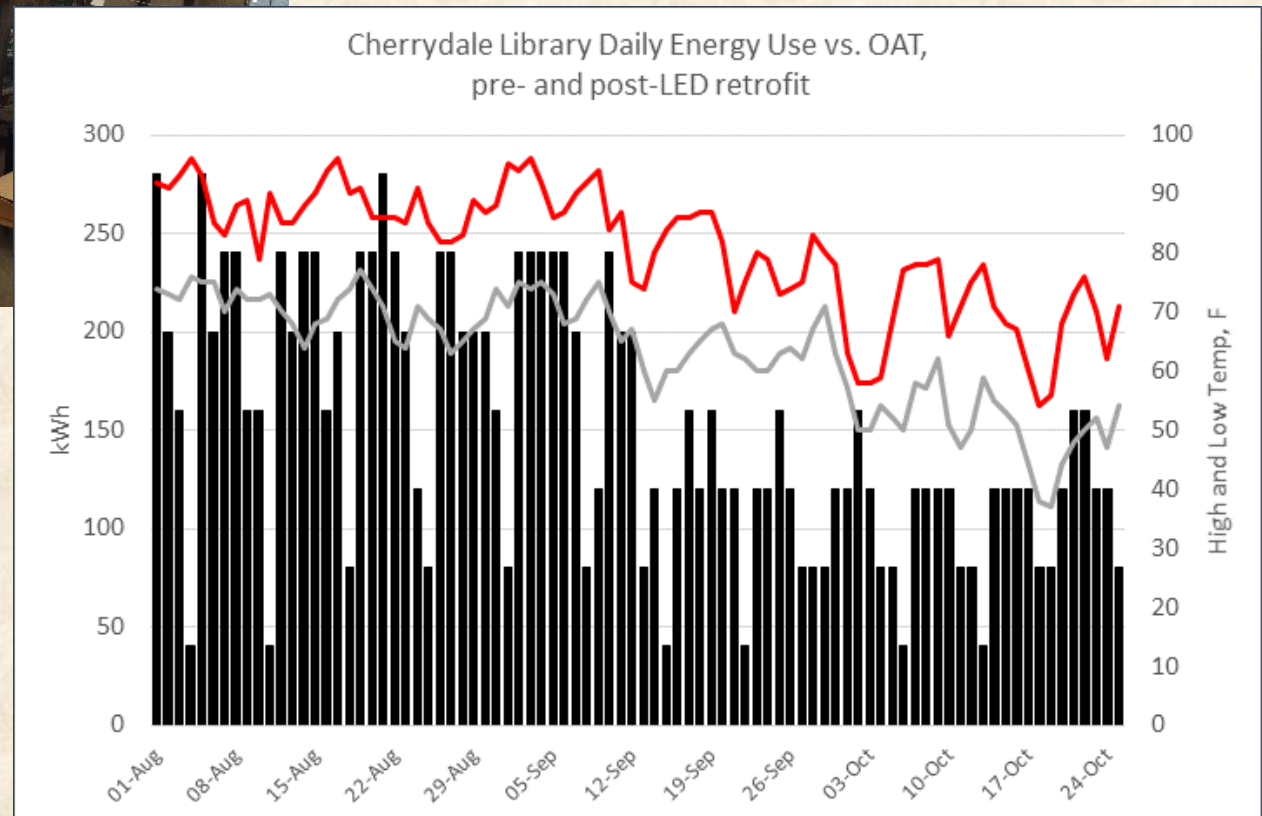
Ballston Garage LED retrofit



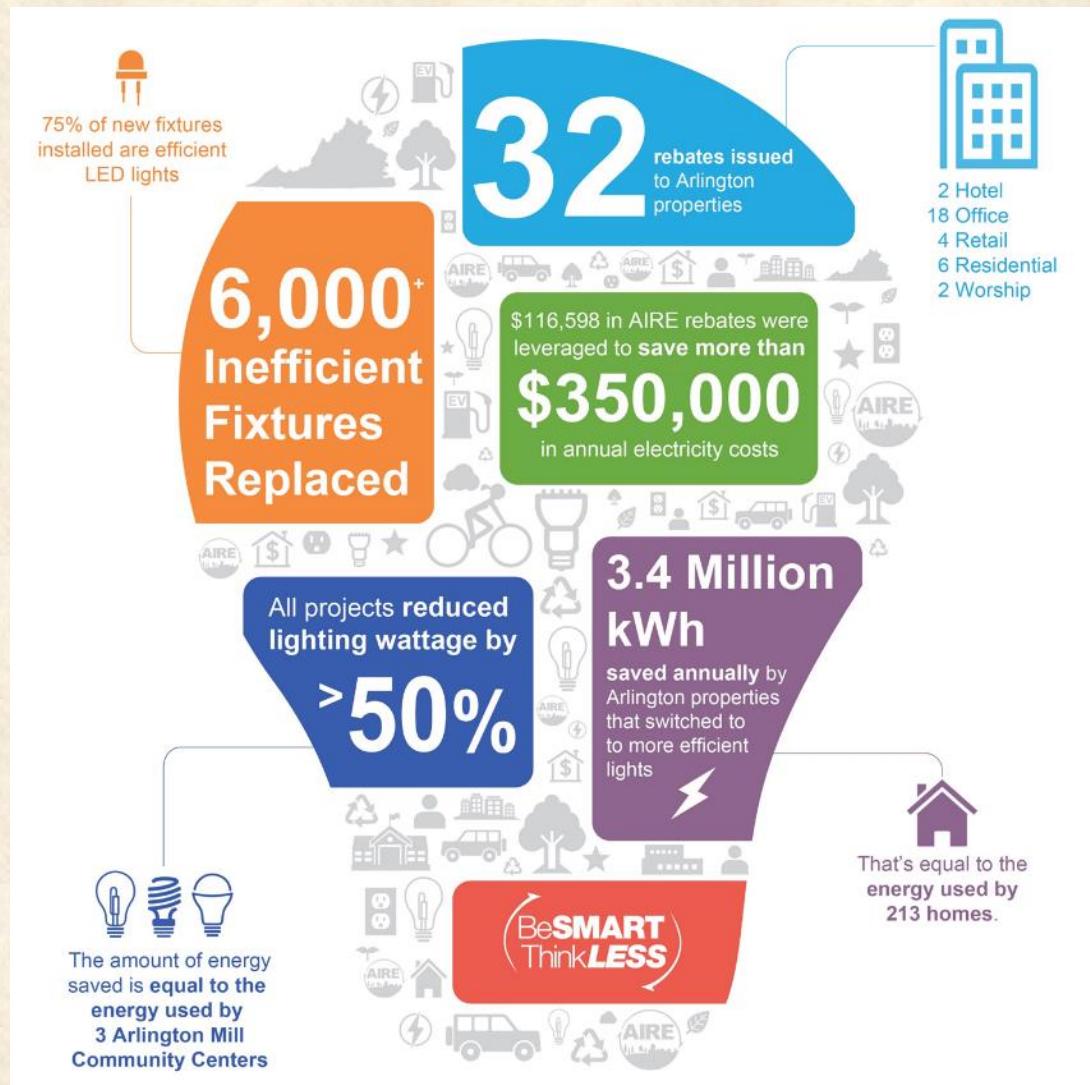
Cherrydale Library LED retrofit



Cherrydale Library LED retrofit



Commercial lighting rebate program 2012-2014



**Onward – The future is bright,
we are confident we will achieve goals**



Thomas Jefferson Middle School & Community Center – APS gym LED retrofit

Thank you

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www.arlingtonenergy.us