

Arlington Initiative to
***Rethink
Energy***



Implementing the Community Energy Plan

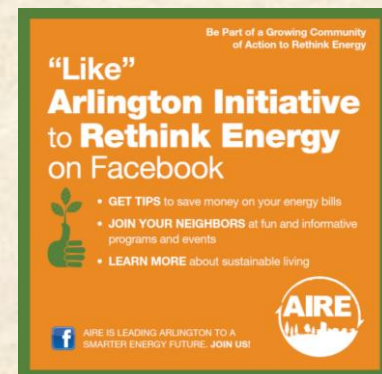
Civic Federation Meeting

April 7, 2015

AIRE and CEP



- Arlington Initiative to Rethink Energy (AIRE) – created in 2007 as the County Board Chairman’s initiative
- We met the primary goal of 10% reduction in greenhouse gas emissions from County government operations by 2012, from 2000 base year
- Other goals included:
 - Outreach to residents and businesses
 - Steady increase in use of clean power
 - Establishment of a community energy/climate plan
- The AIRE Team’s efforts come together as a road map to implement the Community Energy Plan (CEP)



CEP Background

- The County Board adopted the Community Energy Plan (CEP) in June 2013.
 - Newest Comprehensive Plan Element

Comprehensive Plan Elements

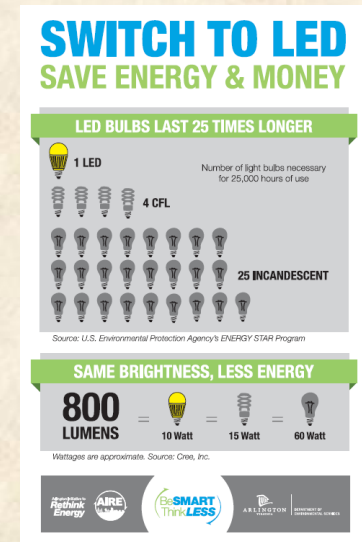
- General Land Use Plan
- Master Transportation Plan
- Storm Water Master Plan
- Sanitary Sewer Collection System Master Plan
- Recycling Program Implementation Plan & Map
- Public Spaces Master Plan
- Historic Preservation Master Plan
- Chesapeake Bay Preservation Ordinance & Plan Ordinance
- Water Distribution System Master Plan
- **Community Energy Plan**

CEP Goal Areas

- **Goal 1:** Increase the energy and operational efficiency of all buildings
- **Goal 2:** Increase local energy supply and distribution efficiency in Arlington using District Energy
- **Goal 3:** Increase locally generated energy supply through the use of renewable energy options

CEP Goal Areas

- **Goal 4:** Refine and expand transportation infrastructure and operations enhancements
- **Goal 5:** Integrate CEP goals into all County Government activities
- **Goal 6:** Advocate and support personal action



SWITCH TO LED
SAVE ENERGY & MONEY

LED BULBS LAST 25 TIMES LONGER

1 LED = 4 CFL = 25 INCANDESCENT

Number of light bulbs necessary for 25,000 hours of use

Source: U.S. Environmental Protection Agency's ENERGY STAR Program

SAME BRIGHTNESS, LESS ENERGY

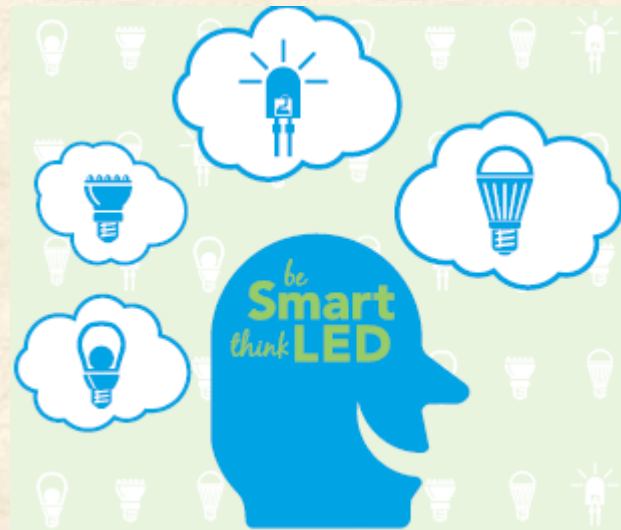
800 LUMENS = 10 Watt LED = 15 Watt CFL = 60 Watt Incandescent

Wattages are approximate. Source: Cree, Inc.

Arlington Initiative to Rethink Energy | AIRE | SMART Think LESS | ARLINGTON | DEPARTMENT OF ENERGY & SUSTAINABILITY

Key Initiatives

- Arlington County Solar Co-op
- Light Bulb Swap events
- Georgetown University Energy Prize



Arlington County Solar Co-op



- Partnership with VA SUN and Arlingtonians for a Clean Environment (ACE)
- Based on the same principle as buying in bulk
- By going solar as a group, members will save 30% off the cost of a solar system. They'll also have the support of the co-op throughout the process instead of having to go it alone.
- Members will select a single contractor to install systems on all of the homes, but each participant owns their own system and will sign their own contract with the chosen installer
- There is still time to join the co-op ! csomers@arlingtonva.us

Light Bulb Swap Events

- Bring in one incandescent light bulb and an AIRE team member will give you one LED light bulb at no cost!
- One LED per household; while supplies last.
- SATURDAY, APRIL 18: 8:30 a.m. – 3 p.m. - E-CARE - Thomas Jefferson Middle School
- WEDNESDAY, APRIL 22: 7 a.m. – 7 p.m. - CRYSTAL CITY POWER PURGE & SHRED - 1900 Crystal Drive
- SATURDAY, APRIL 25: 8 a.m. – Noon - ARLINGTON FARMERS MARKET - North 14th Street and North Courthouse Road
- Learn more about LED lights [here](#)

Georgetown University Energy Prize

- Challenges 50 small/medium sized communities to create and begin implementing long-term plans for the continual improvement of energy efficiency
- \$5 million prize



Why a prize ?

Prize competitions in the past have stimulated positive change.



Orteig Prize



Prize for canned food



Competition Overview

- Two-year competition, ending 12/31/16
- Focuses on municipal and residential sector energy use

Timeline



Judging Criteria

Seven categories - maximum score of 100

Category	Points
Competition Performance	25
Innovation	15
Potential for Replication	15
Likely Future Performance	10
Equitable Access, Community and Stakeholder Engagement	10
Education	10
Overall Quality and Success	15

Competition Performance

- Summary of the energy-savings program
 - Including any short- or long-term changes introduced during the competition
- Role and effectiveness of energy retrofits and other capital improvements
- Implementation & success of activities that target high-return opportunities
 - Affordable housing
 - Residential rentals



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Innovation

- What's innovative about the energy-savings plan, and how effective were the innovations?
 - Innovative financing that increased adoption rates significantly

Potential for Replication

- What resources were developed that other communities might use?
 - Community engagement
 - Websites
 - Templates

Likely Future Performance

- Are the energy-savings achieved to date by the program are likely to be permanent?
 - How have aspects of the energy-savings program been institutionalized through policies and other means?
 - Evidence of widespread behavior change

Equitable Access, Community & Stakeholder Engagement

- How successful was the program at reaching diverse aspects of the community?
 - Geographic
 - Demographic
 - Functional
 - Economic
- How engaged were the utilities?

Arlington's Energy Journey



Education

- How the local K-12 school system was engaged (including educational materials)
 - Evidence of how well it was engaged
- Summary of any community-wide educational programs

Overall Quality & Success

- Describe how the prize would be used to promote and implement continued energy efficiency measures in a way that benefits the whole community
 - Including all demographic and economic sectors

What Can / Do?

- Implement some of the tips from the “[15 Under \\$15](#)” and “[Bright Ideas](#)” flyers
- Help spread the word about AIRE efforts among people in your networks
 - Overall CEP implementation
 - Winning the \$5M Georgetown Prize
- “Like” us on [Facebook](#)



BRIGHT IDEAS FOR SAVING MONEY & ENERGY AT HOME

BE SMART. Use CFL and LED light bulbs, and get familiar with the many shapes and color options now available.

THINK LESS. Turn off your lights when they're not needed.

BE SMART. Unplug your electronics when they're not in use.

THINK LESS. Use a power strip to make it easier to turn off your electronics.

BE SMART. Set your thermostat to 68°F in the winter (lower while you're asleep or away from home) and 78°F in the summer (higher when you're away).

THINK LESS. Install and set a programmable thermostat so you can worry less about proper temperature control.

BE SMART. Insulate your attic to retain heat in the winter.

THINK LESS. Warm air rises. Lose less heat from your home to the outdoors.

BE SMART. Open windows, adjust blinds, and use fans to naturally control daylight and temperature indoors.

THINK LESS. Use less heat and air conditioning.

Connect with AIRE on    

www.ArlingtonEnergy.us

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Come Join Us !

www.arlingtonenergy.us

