

CARY, NORTH CAROLINA



Sustainability In A Mission-Driven Department

- R. Allan Cain, Fire Chief, Cary Fire Department
- Tony Jordan, Assistant Fire Chief, Cary Fire Department
- Emily Barrett, Sustainability Manager, Town of Cary



EPA Climate Showcase Communities Grant

- Focus on sustainability in fire and police services
- Fire Departments are place-based and operate on a 24/7/365 basis.
 - Existing Buildings
 - New Buildings
 - Behavior in those buildings
- Opportunities regarding FD transportation more limited
 - Idling SOP
 - Hybrids in administrative functions



EPA Climate Showcase Communities Grant



CARY FIRE STATION NO. 8

adwarchitects
environmentsforlife
architecture planning interiors

EPA Climate Showcase Communities Grant

- Share findings in the Fire and Police service on what works—using successes in Cary and other departments
- Key partners, Town of Chapel Hill, City of Charlotte, City of Durham, City of Raleigh, Triangle J Council of Governments
- Profile fire house energy performance
- Inspire/challenge others to act



The Town of Cary's Station to Station Energy Challenge

- **Fire Department Demographics:**
 - 220 member department
 - 7 fire stations (1 under construction)
 - Town size is 53 mi²
 - 7,700 calls for service a year
 - 70,900 ft² (ranging from 4,200 to 17,000)
 - \$168,000/year for electricity + natural gas of stations (FY11)



The Town of Cary's Station to Station Energy Challenge

- **Fire Station Competition Overview**
 - August 1, 2012 - December 31, 2012
 - Winner determined by greatest % reduction at their station compared to last year
 - “Station Leaders” volunteered to be facilitators to keep station personnel involved, enthused, and engaged in the challenge.
 - **Monthly Updates**
 - **Winning station**
 - Catered **meal** for each shift (donated from local restaurants)
 - A \$500 dollar grant for an environmentally-related project of their choosing.
 - And importantly...

The Town of Cary's Station to Station Energy Challenge

Bragging Rights!



The Town of Cary's Station to Station Energy Challenge

- **Successes**
 - So far, average 11% reduction in energy use as compared to last year
 - One station had a reduction in energy use of 22%
 - Night lights
 - Consistent thermostat settings across all shifts
 - Tankless water heater (behavior is key)
 - Full load of clothes in washing machines/dryers
 - **Increased Awareness**



The Town of Cary's Station to Station Energy Challenge

- **Lessons Learned/Ongoing Challenges**
 - Fire Department lead effort
 - Allow firefighters to be creative and support where possible with their own ideas and know-how
 - Include billing days as part of the analysis (consider EPA's Portfolio Manager)
 - Keeping firefighters motivated throughout the challenge



The Town of Cary's Station to Station Energy Challenge

- **Going Forward**
 - The importance of sustaining organizational behavior change beyond the competition
 - Sustainability Manager doing periodic energy conservation talks and/or memos





CHIEF'S **ENERGY**
CHALLENGE

Take the Chief's Energy Challenge!

- **Why?**
 - Save energy and money
 - Demonstrate leadership in your community and in the fire service
- Goal is 10% reduction by March 2014 and 20% reduction by March 2016
- Recommend that you get started with entering building information into Portfolio Manager now.
 - Go to www.chiefsenergychallenge.org to get on the mailing list (in center of the page) so you can stay informed.

Questions?

- **Emily Barrett, Sustainability Manager**
 - emily.barrett@townofcary.org
 - 919-469-5125
- **Tony Jordan, Assistant Fire Chief**
 - tony.jordan@townofcary.org
 - 919-319-4578