

# Calvert County Green Team

Status Report to the  
Board of County Commissioners  
April 2011



# Presentation Outline

- 1. Green Team Progress**
  - a) Documentation Subcommittee**
  - b) Ideas Subcommittee**
  - c) Citizen Subcommittee**
- 2. Sustainable Awards**
- 3. 2011 Goals**



# Goals for 2010

- a) Continue to monitor County buildings and pursue building and equipment upgrades that will save County money.
- b) Maintain a proactive recycling plan for county government facilities.
- c) Continue to pursue construction of future county-owned buildings over 10,000 square feet to comply with LEED (silver) or Green Globe (2 globe) standards.
- d) Collect and utilize employee ideas.
- e) Maintain Internet site on the County web for green issues.



# Goals - Continued

- f) Promote public green initiatives by supporting a citizens Green Team committee to hold a green expo.
- g) Continue to pursue the National Association of Counties (NACO) Energy Star Challenge.
- h) Keep the BOCC informed about national and state options and grant opportunities, such as PACE and Project Sunburst.
- i) Prepare town center ordinances that facilitate green site and building design.



# 1. a. Documentation Subcommittee



# 1a. Documentation Subcommittee

Degree days are a specialist type of weather data, calculated from readings of outside air temperature.

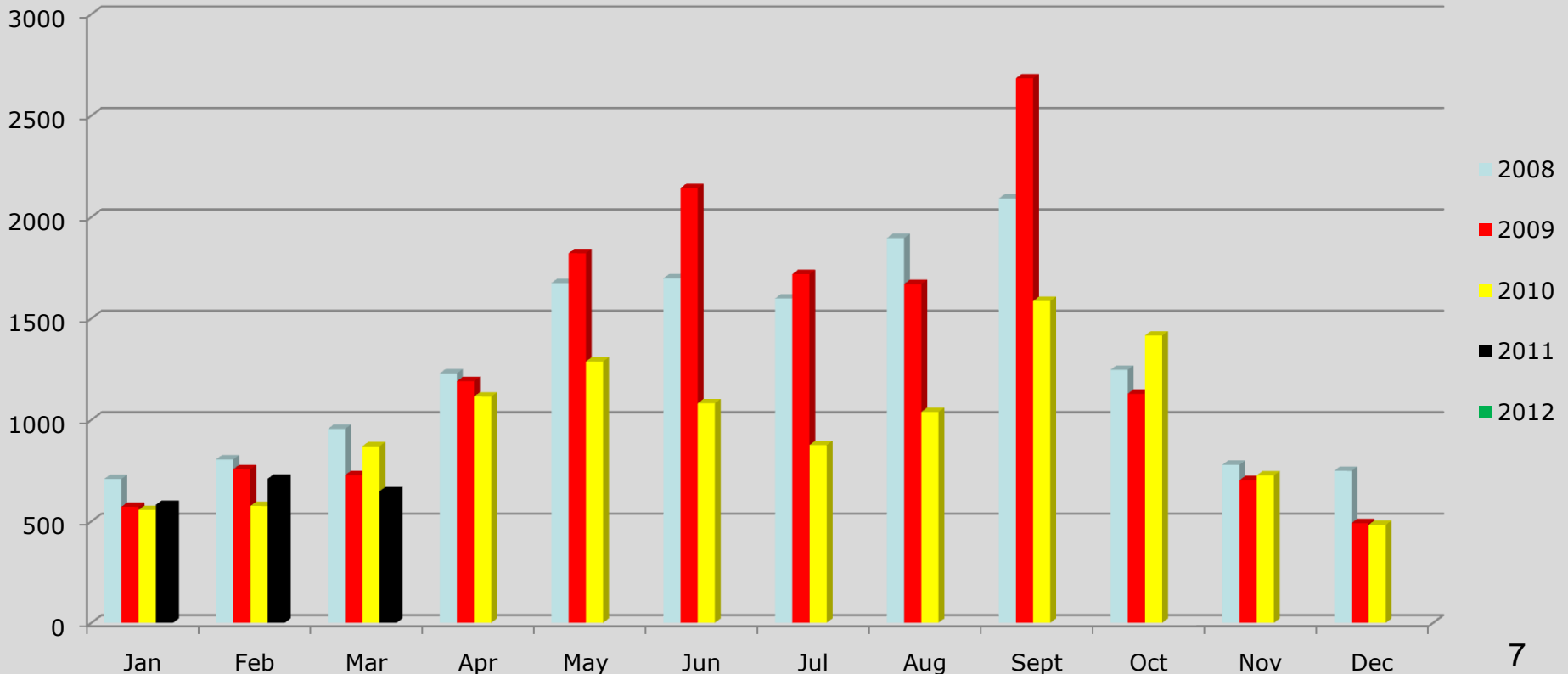
- Heating degree days are a measure of how much (in degrees), and for how long (in days), the outside air temperature was below a certain level.
- Cooling degree days are a measure of how much (in degrees), and for how long (in days), the outside air temperature was above a certain level.



# County Facilities Electric Comparison

## kWh Per Degree Day's Total for Ten County Facilities

Annex, Calvert House, Calvert Pines Senior Center, Community Resources Building, County Services Plaza, Courthouse, Health Department, Island Creek, PF Library and SC



# Electricity Savings

GREEN TEAM FACILITIES' COMPARISON				
ANNUAL ELECTRICITY CHARGES				
	2009	2010		FY09-FY10 Savings
Courthouse	177,780.24	161,216.44		16,563.80
Courthouse Annex	61,817.57	49,207.18		12,610.39
County Services Plaza	116,193.50	85,212.30		30,981.20
Southern Community Center	89,907.86	84,116.12		5,791.74
Community Resources Building	21,762.75	16,726.93		5,035.82
Island Creek	29,871.52	26,697.25		3,174.27
Calvert Pines Senior Center	58,242.31	52,306.37		5,935.94
Health Department	67,478.22	54,658.80		12,819.42
Calvert House	45,010.77	41,877.66		3,133.11
Prince Frederick Library	89,861.94	81,505.09		8,356.85
<b>Total</b>	<b>\$ 757,926.68</b>	<b>\$ 653,524.14</b>		<b>\$ 104,402.54</b>



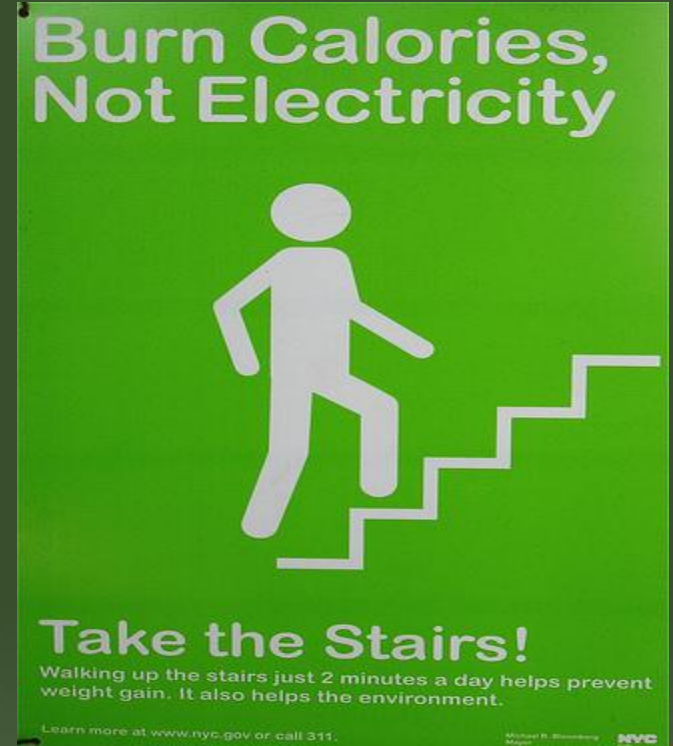
# Presenting the first LED light post!

It is estimated to reduce electricity use by 40%



# Other Projects

- Thermostats at Broomes Island and Dowell House
- Energy Star Challenge
- Mt. Hope – a new SEER 17
- Work Release facility to go from oil to propane to natural gas
- Burn Calories, not electricity



# 1.b. Ideas Subcommittee





RESIDENT GUIDE

BUSINESS GUIDE

VISITOR GUIDE

SEARCH

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[Goals & Progress](#)

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## ***Welcome to the Calvert County Go Green Initiative Internet Site.***

This site will be a resource for county government employees and residents as the county pursues various ways to promote the responsible use of energy and resources. Check in often for the latest news, progress and tips.

The 2011 [Calvert County Green Expo](#) is set for Saturday, April 9.

View the Green Team's [October, 2010 update presentation](#) to the Board of County Commissioners.

The Calvert County Citizens Green Team has presented the [2010 Sustainable Business Awards](#) in recognition of local businesses that are helping make the county a more sustainable community.

Learn about how you can help protect the Chesapeake Bay by using [low-phosphate fertilizers](#).

Find out how you can [purchase tree seedlings](#) through the Maryland Department of Natural Resources for spring planting.



# County Recycling Progress

- Countywide recycling has reached 25%.
- Most of the county buildings have recycling operations in place.
- Regional parks have recycling in place.

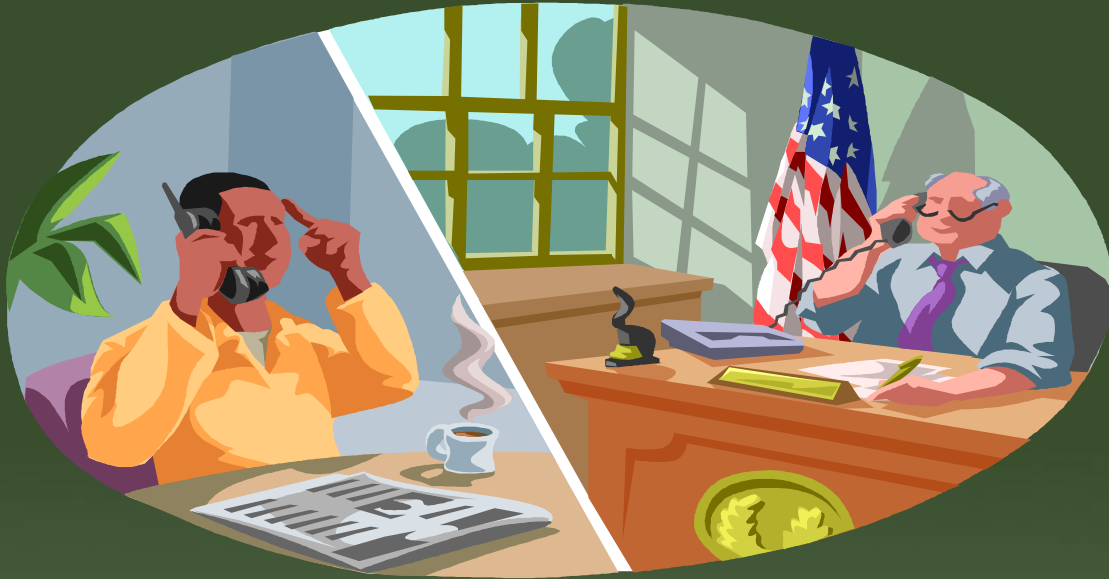


# Maryland Green Registry

- Calvert County government is a member of the Maryland Green Registry.
- Applying for 2011 Leadership award to recognize our efforts.



# 1.c. Citizen Subcommittee



# Co-sponsored presentation to builders on new Green Certifications



## National Green Building Certification

**June 2010**



**National Green Building Certification**



# Benefits of Green Homes

- Increased durability
- Better indoor air quality
- Reduced environmental impact
- Lower utility bills
- More comfortable home
- Reduced waste / pollution

# Total Cost of Homeownership

## Conventional Home


House Cost	\$150,000
Mortgage	\$135,000
Monthly Payment	\$991
Utility Bills	\$186
Total Cost Homeownership	\$1177

## Green Certified Home

House Cost	\$154,000
Mortgage	\$139,334
Monthly Payment	\$1023
Utility Bills	\$93
Total Cost Homeownership	\$1116
Savings	\$61

# Calvert Green Expo

- Booths included
  - Div. of Solid Waste
  - Division of Engineering
  - Planning and Zoning



**April 9, 2011**  
**11 a.m. – 4 p.m.**

*College of Southern Maryland  
Prince Frederick Campus*  
115 JW Williams Road, Prince Frederick

Please join us at **Calvert County's 3<sup>rd</sup> Annual Green Expo**, a **FREE**, family-friendly event where you can meet vendors, see product demonstrations, eat locally grown food and learn about new resource-conserving technologies.

Expo speakers and exhibitors will show us how to:

- Lower our energy bills and reduce water usage
- Find green products and services
- Help reduce landfill requirements through easy recycling and composting
- Identify Maryland and Federal tax incentives and rebates for weatherization projects, HVAC upgrades and solar/wind/geothermal installations
- And much, much more!

**Speakers • Demonstrations • Vendor Exhibits • Local Food**

Hosted by the Calvert County Citizens' Green Team [www.calvertgreenexpo.org](http://www.calvertgreenexpo.org)

World map designed by Jennifer Kane

# Largest turnout ever!



New venue (Prince Frederick Campus –  
College of Southern Maryland –  
Record participation to date: 500 +



# 2. Sustainable Award 2011

## Nominations are Open

- Sustainable Business of the Year

Recognizes Businesses that have installed energy saving project and/or are selling or providing a certified green product.



# 2011 Sustainable Awards continued

- Green Builder of the Year –

Recognizes a builder who has constructed a certified green house within the last two years.

Projects may be certified through the National Association of Home Builders, Energy Star, Green Globe or Leadership in Energy and Environmental Design.



# 3. Green Team Goals for 2011

- Continue to make energy reduction improvements that will save County money.
- Maintain the recycling plan for county government facilities.
- Require future county-owned buildings over 10,000 square feet to comply with LEED (silver) or Green Globe (2 globe) standards.
- Collect employee ideas and present to BOCC.
- Maintain Internet site on the County web for green issues.
- Prepare town center ordinances that facilitate green site and building design.
- Promote public green initiatives by supporting the citizens Green Team committee.

Keep the BOCC informed about national and state options and grant opportunities.

