

# Calvert County Green Team

October 2010  
Progress Report



# Presentation Outline

- 1. Green Team Progress**
  - a) Documentation Subcommittee**
  - b) Ideas Subcommittee**
  - c) Citizen Subcommittee**
- 2. Sustainable Business of the Year**

# 1. a. Documentation Subcommittee



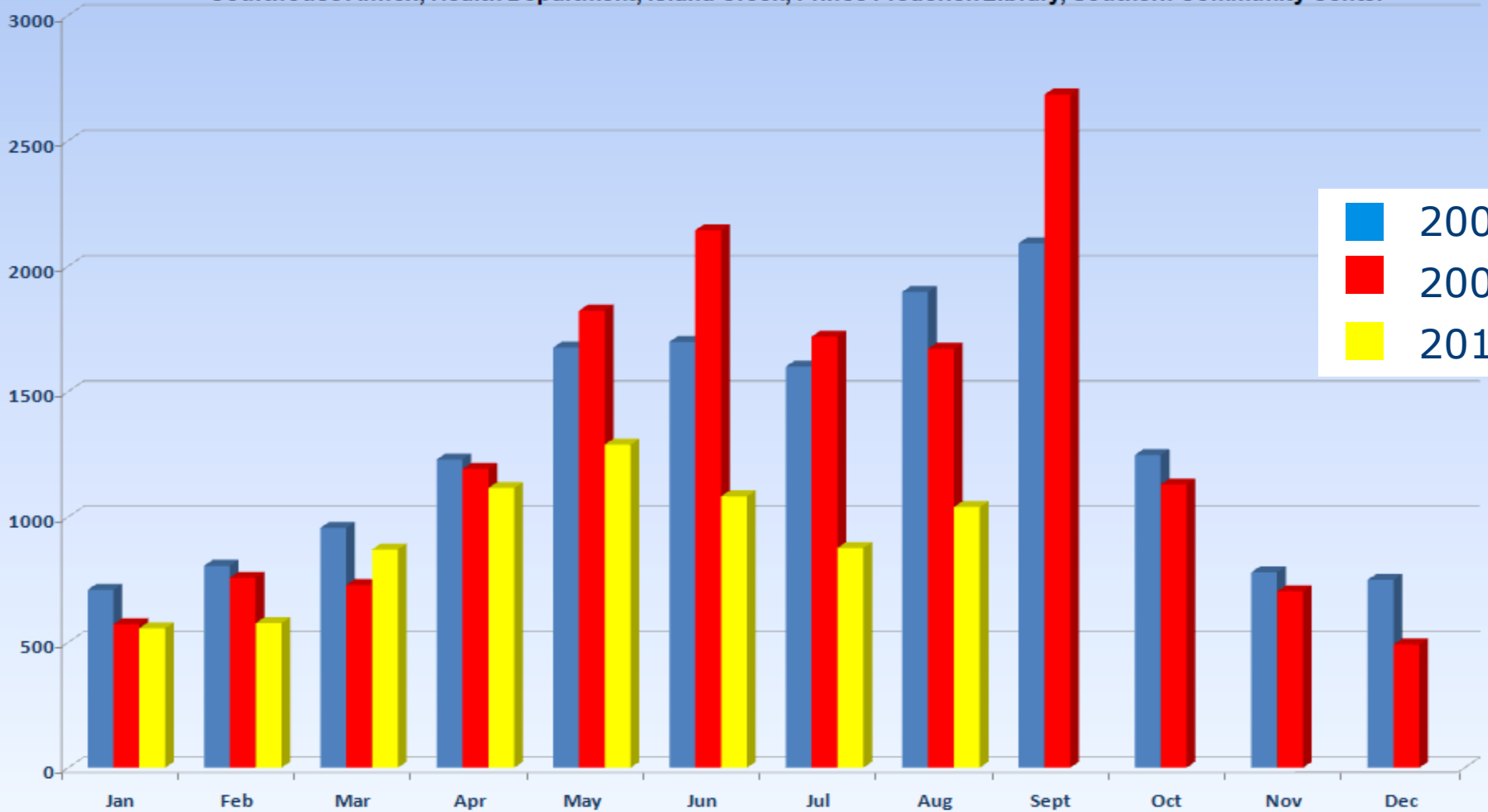
# 1a. Documentation Subcommittee – Buildings -

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

Calvert House, Calvert Pines Senior Center, Community Resources Building, County Services Plaza, Courthouse, Courthouse Annex, Health Department, Island Creek, Prince Frederick Library, Southern Community Center



### HOW WE REDUCED OUR ENERGY CONSUMPTION

#### Non-Weather Related Energy Consumption

- Computers/Office equipment off at night

#### Weather Related Energy Consumption

- Changed room temperature setting for cooling from 72 degrees to 76 degrees

# 1.b. Ideas Subcommittee



# Green Team Webpage



- RESIDENT GUIDE
- BUSINESS GUIDE
- VISITOR GUIDE

- Calvert Green Team
- Return to CCG Home
- Goals & Progress
- Green Tips
- Contact Green Team

[Home > Calvert Green Team](#)

## 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.

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

**About low-phosphate fertilizers . . .**

Find out how civic groups, schools and other organizations can [purchase native trees and shrubs](#) through the Maryland Department of Natural Resources for spring planting.

**About purchase of trees . . .**

## Green Team Mission

Calvert County's Go Green initiative is a local effort to promote the responsible use of energy and resources in order to create a healthier environment and a more sustainable community. The county's Green Team, made up of county government employees, is leading the Go Green initiative. The Green Team is focusing on the following efforts:



- Cataloging ongoing county initiatives to reduce energy consumption
- Encouraging green initiative suggestions from county staff and forwarding them to the Board of County Commissioners with recommendations
- Fostering citizen input on green initiatives and informing residents about ways to reduce energy consumption and protect the environment
- Providing semi-annual reports on Green Team efforts to the Board of County Commissioners

**About Green Team Mission**

# County Recycling Progress

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

# 1.c. Citizen Subcommittee



# 1c. Citizens Subcommittee

- Including green design options in town center Zoning Ordinances
- Co-sponsored training session with the building industry
- Working with Citizens Green Team

# 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

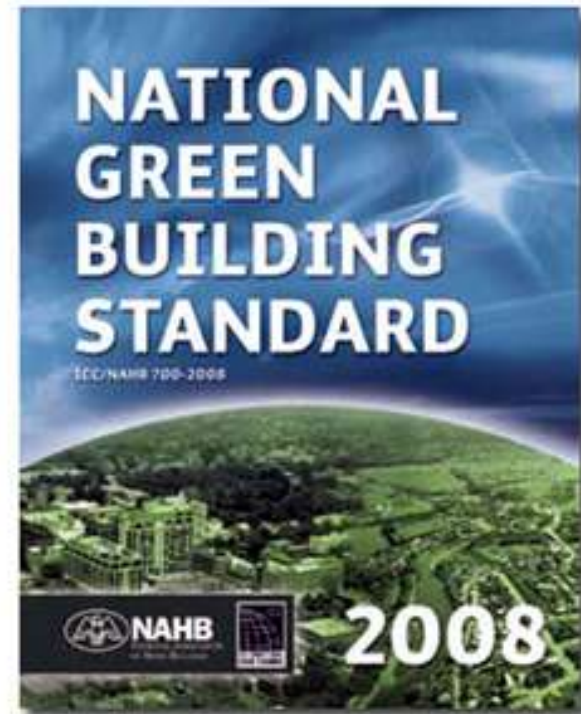
## Green Certified Home

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



# National Green Building Standard

- Approved Jan 2009
- Collaboration between ICC and NAHB
- Only ANSI-approved green building rating system



# SMECO – Save Energy



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## Save Energy, Save Money

The [EmPOWER Maryland](#) initiative aims to reduce energy consumption in the state by 15 percent by the year 2015. As part of that initiative, SMECO is developing new conservation programs to help customer-members save energy. Check this page periodically for

information about new programs, or use the menu at right to find more information about reducing your energy usage.

### Save Today with [Lighting Discounts](#)

SMECO is proud to offer [discounts](#) on ENERGY STAR qualified lighting from participating retailers.

### [Residential Heating and Cooling Rebate Program](#)

[Energy Saving Tips](#)

[Energy Star](#)

[Home Energy Monitoring Kit](#)

[Online Energy Audit](#)

[PowerWise](#)

## Log into my account

Search our [Missing Members List](#) and see if you may have an unclaimed Capital Credits refund.

Save \$9, save \$10, save up to \$12 on a multi-pack of [compact fluorescent light bulbs!](#)

SMECO is closing the payment drop box at the White Plains office as of January 1, 2010.

Donate to [Project Match](#) and help pay the fuel bills for local families who need assistance.



Save Energy, Save Money



Southern Maryland Reliability Project

Done



Google



VZAccess Manager

Save Energy, Save ...

AutoPlay

Removable Disk (G:)

Microsoft PowerP...

Internet | Protecte...

# Energy Star Home Program



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## Energy Star Home Program



SMECO has joined with the Environmental Protection Agency (EPA) to offer energy-efficient home construction in Southern Maryland through the ENERGY STAR Home Program.

Under ENERGY STAR, SMECO will work with you and your builders to ensure that homes are built to strict energy efficiency standards with cutting edge technology. An ENERGY

STAR Home is built to use 30% less energy (for heating, cooling, and water heating) than a home built to the standards of the current national Model Energy Code. For a fee, SMECO will inspect and certify each home. Once completed, the home receives a nationally recognized rating that certifies it as an ENERGY STAR Home.

Though quality construction does cost more, the modest increase in the up-front price is offset by energy savings. For example, if the additional features of an ENERGY STAR Home amounted to \$2,500, this would add about \$15 to your monthly mortgage. However, the home could save as much as \$35 a month on energy bills. This covers the additional cost of \$15 a month and puts \$20 a month back into your pocket.

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Save Energy,  
Save Money



Southern  
Maryland  
Reliability  
Project

# Energy Star Home Advantage

For example, if the additional features of an ENERGY STAR Home amounted to \$2,500, this would add about \$15 to your monthly mortgage. However, the home could save as much as \$35 a month on energy bills. This covers the additional cost of \$15 a month and puts \$20 a month back into your pocket.

# Incentives for Builders

Builders who construct homes in SMECO's service area that meet or exceed the EPA ENERGY STAR for New Homes guidelines can receive the following incentives:

- **Tier I:** \$600 for an ENERGY STAR qualified home with a HERS Index of 85 or lower.
- **Tier II:** \$800 for an ENERGY STAR qualified home with a HERS Index of 80 or lower.
- **Tier III:** \$1,000 for an ENERGY STAR qualified home with a HERS Index of 75 or lower.

# Calvert Green Expo!

## ■ Booths included

- Div. of Solid Waste
- Division of Engineering
- Planning and Zoning
- Calvert Marine Museum

## CALVERT COUNTY GREEN EXPO

May 2, 2010

11:00 am – 4:00 pm

*Jefferson Patterson Park & Museum*

10515 Mackall Road

St. Leonard, Maryland 20685

Please join us at Calvert's 2<sup>nd</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



**Dominion**



**Constellation Energy**



Hosted by

Calvert County Citizens' Green Team

[www.calvertgreensexpo.org](http://www.calvertgreensexpo.org)

Calvert County  
**greenEXPO**

Co-Sponsored by

Friends of Jefferson Patterson  
Park & Museum



World logo designed by Jennifer Kane

# Cosponsored by Friends of JPPM

The screenshot shows the homepage of the Friends of Jefferson Patterson Park & Museum (JPPM). The website has a blue header with navigation links: Home, Membership, FAQs, Contact Us, and Visit the Park. Below the header is a navigation bar with links for About Us, Announcements, Calendar, Programs, and Gift Shop. The main content area features a large photograph of a paved path leading through a wooded area with autumn foliage. Below the photo is a caption: "Photography by David W. Frankowski" and a link to "Want to see more photos? Be sure to visit our Photo Gallery (March)".

**Welcome to Friends of JPPM**

The Friends of Jefferson Patterson Park & Museum (Friends of JPPM) is a membership, 501(c)(3), non-profit organization, which raises funds to help support the archeology, history, heritage and environmental education projects, programs and events at Jefferson Patterson Park & Museum.

JPPM is located in the heart of Calvert County Maryland and consists of 560 acres on the Patuxent River & St. Leonard's Creek. Gifted to the State of Maryland in 1933 by Mrs. Jefferson Patterson, this state owned and operated facility is Maryland's State Museum of Archeology.

**Special: Thanks to our Sponsors:**

- Chaney Enterprises
- The Show Place Farm
- Constellation Energy
- PNC

**What's New at JPPM**

- Jefferson Patterson Park & Museum Takes a Big Step Towards Going Green!
- Chaney Enterprises Donates to Jefferson Patterson Park & Museum
- Discovery Archeology

**Upcoming Events**

- Maryland Archeological Conservation Laboratory: Behind the Scenes
- Weaver Making Workshop
- Maryland Archeological Conservation Laboratory: Behind the Scenes

**Become a Volunteer**

Volunteers are the lifeblood for many organizations and Jefferson Patterson Park & Museum is no exception. [Learn More >](#)

**Take the Tour**

Take a virtual tour of Jefferson Patterson Park & Museum. [View Now >](#)

**Make a Contribution**

Interested in making a contribution in support of the Friends of JPPM? [Learn More >](#)



2010



# Sustainable Business of the Year!

The screenshot shows the homepage of Sneade's ACE. At the top, there is a navigation bar with links for Home, Hours/Directions, Employment, Contact, and acehardware.com. The main header features the 'SNEADE'S ACE' logo in large red letters, with 'SNEADE'S' in a smaller black font above it. To the right of the logo is a house-shaped graphic containing the text 'Your Complete Home Center'. Further right, the tagline 'the helpful place' is displayed in blue and black text. Below the house graphic, two store locations are listed: 'Owings 410-257-2963' and 'Lusby 410-326-3222'. A yellow banner below the header reads 'Your Complete Lumber & Building Material Place' with a red arrow icon pointing right. A horizontal menu bar contains categories: Lawn & Garden, Outdoor Living, Paint, Tools, Hardware, Plumbing, Heating & Cooling, Electrical, and Auto. On the left side, there is a list of links under 'Green Products Home': Earth Friendly, Water, Air, Cleaning, and Energy Saving. Below this is a 'Featured Shops' button. The main content area is titled 'Sneade's Green Products' and features a large image of green grass with the 'ACE Green Products' logo overlaid. At the bottom of the main content area, a paragraph states: 'Sneade's Ace is the place for environmentally-safe products. Use the menu to the left and top to see more of our helpful earth choice products.'

Home | Hours/Directions | Employment | Contact | acehardware.com

**SNEADE'S**  
**ACE**®

Your Complete Home Center

the helpful place

Owings 410-257-2963  
Lusby 410-326-3222

Your Complete Lumber & Building Material Place →

Lawn & Garden | Outdoor Living | Paint | Tools | Hardware | Plumbing | Heating & Cooling | Electrical | Auto

▶ [Green Products Home](#)  
▶ [Earth Friendly](#)  
▶ [Water](#)  
▶ [Air](#)  
▶ [Cleaning](#)  
▶ [Energy Saving](#)

**SNEADE'S ACE** Featured Shops

Seasonal Specials  
Lumber & Building  
Green Products  
Birding  
Landscaping

## Sneade's Green Products

**ACE**  
**Green Products**

Sneade's Ace is the place for environmentally-safe products. Use the menu to the left and top to see more of our helpful earth choice products.