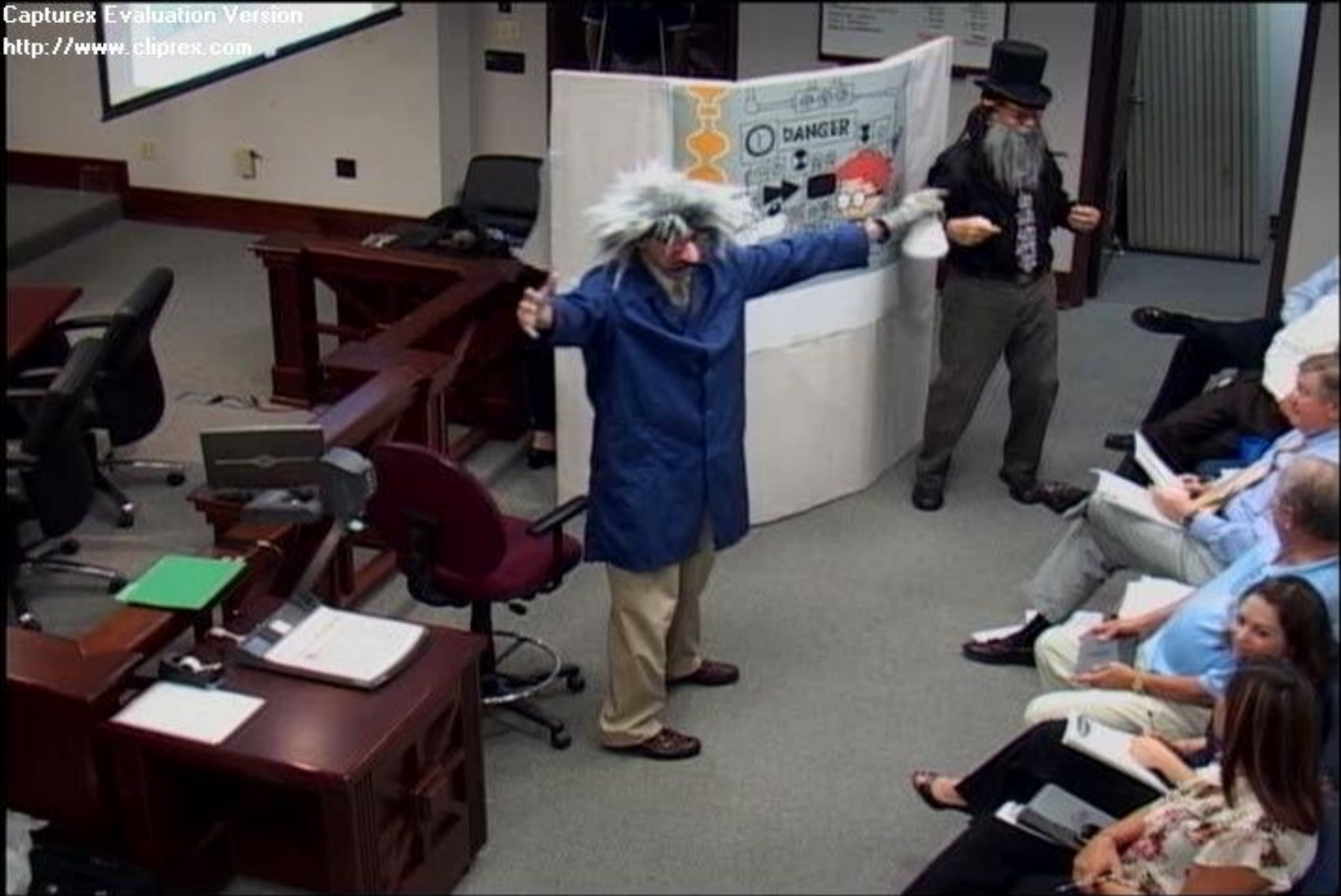


# .....***Prelude***

**Henry Lewandowski**

**Chatham County Mosquito Control**



# CHATHAM COUNTY'S GREEN INITIATIVE OR...



**...How I became the Greenest County Czar**



**Lost  
opportunity  
on 1,500  
acre mega-  
site?**

**The County of Chatham**  
**Georgia**  
  
**Resolution**

**CALLING FOR CHATHAM COUNTY TO BECOME  
"THE GREENEST COUNTY" IN GEORGIA**

**WHEREAS**, the area now known as Chatham County has had a green history, as the delta of a great river, as a home for native American Indians such as the Yamacraw tribe, as the place where General James Edward Oglethorpe chose to found the colony of Georgia, and through the subsequent 275 years of sustained settlement; and

**WHEREAS**, Chatham County is blessed with an abundance of natural resources, including the Atlantic Ocean, the barrier islands, the tidal marshes, the high bluff of historic Savannah, the forests of pines and live oaks, the Floridan Aquifer and a rich and complex natural ecosystem; and

**WHEREAS**, Chatham County is also blessed with a diverse human ecology, with many cultural heritages; abundant infrastructure including education, transportation, industrial, national security, and all types of residential; and people who share a great love of our community despite their many differences; and

**WHEREAS**, we all must now learn to be as energy and resource conservative as possible in order for future generations to survive and prosper, the Board of Commissioners of Chatham County desires to show its leadership in helping to create "The Greenest County in Georgia."

**NOW, THEREFORE**, the Board of Commissioners of Chatham County does hereby

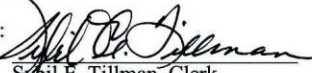
**request that the Chatham Environmental Forum, with its history of helping to find answers to the difficult environmental questions of the last 20 years, accept the challenge of developing a plan for how we can together become "The Greenest County in Georgia:" by**

**ADOPTED THIS 5<sup>th</sup> DAY OF OCTOBER, 2007**



  
Pete Liakakis, Chairman

Attest:

  
Szpil E. Tillman, Clerk



# CHATHAM ENVIRONMENTAL FORUM

- Formed in 1989
- Participants
  - Business
  - Environmental Groups
  - Government
- Consensus – Science and Best Information

**February  
2009**

CHATHAM  
ENVIRONMENTAL  
FORUM



A road map for  
**CHATHAM COUNTY**

for its journey  
in becoming

**THE GREENEST  
COUNTY** in the  
**STATE of GEORGIA**

# COMMITTEE GOALS

**1 Green Space/Land Use**

**2 Energy**

**3 Transportation**

**4 Climate Change**

**5 Creative Infrastructure**

**6 Water Management**

**7 Solid Waste**



**188 Action Items**

# ENTIRE COMMUNITY, PUBLIC AND PRIVATE

## **1 Green Space/Land Use**

## **2 Energy**



## **3 Transportation**

## **4 Climate Change**

## **5 Creative Infrastructure**

## **6 Water Management**

## **7 Solid Waste**

**Community Gardens**

**Composting**

**Greenhouse Gas**

**Energy consumption**

**Last Mile Concept**

**Complete Streets**

**Storm Water Management**

**Recycling**

**Emergent Structures**

**Job Training**

**Public Awareness**

# MY ROLE IN THE PROGRAM – MAY 2009

- 
- FIGUREHEAD
  - CULTURAL CHANGE
  - COUNTY FUNCTIONS ONLY

# Chatham County Begins Assistant County Manager

- Carbon footprint calculations
- Applying to become a Bronze Partner in Sustainable Georgia



- Applying for an Energy Efficiency and Conservation Block Grant
- Action List Matrix

# LEARNING ABOUT THE GREEN INITIATIVE

## 1. ATTENDED CHATHAM ENVIRONMENTAL FORUM MEETINGS



## 2. MET WITH DEPARTMENT AND AGENCY



# LEARNING ABOUT THE GREEN INITIATIVE

## 3. MADE A PRESENTATION TO DEPARTMENT HEADS AND MID-LEVEL MANAGERS



# LEARNING ABOUT THE GREEN INITIATIVE

## 4. ATTENDED LEED CERTIFICATION TRAINING (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN)



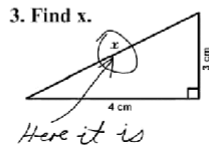
LEED 2009 FOR  
**NEW**  
**CONSTRUCTION**  
**AND MAJOR RENOVATIONS**

The logo for LEED 2009 certification is displayed within a white rectangular box. The text "LEED 2009" is in a white, outlined, sans-serif font. The word "FOR" is in a smaller, white, outlined font. The word "NEW" is in a large, bold, green, sans-serif font. The words "CONSTRUCTION" and "AND MAJOR RENOVATIONS" are in a bold, green, sans-serif font, with "AND" in a smaller size than the other words.

# LEARNING ABOUT THE GREEN INITIATIVE

## 5. ENERGY AUDIT TRAINING

### Audit Basics



### HVAC



### Lighting



### Plug Loads



# Chatham County Progress

1. Carbon footprint calculated – 2007, 2008
  - The equivalent of 21,092 tons of CO<sub>2</sub> at an annual cost of \$6 M



ICLEI - International Council for Local Environmental Initiatives

# Chatham County Progress

## 1. Carbon footprint calculated

- Identified the 4 largest energy users

### **Detention Center Complex**



**New Court House**



**Old Court House**

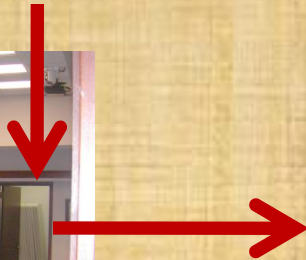


**Aquatic Center**

# Chatham County Progress

## 1. Carbon footprint calculated

- Identified projects to correct energy deficiencies



# Chatham County Progress

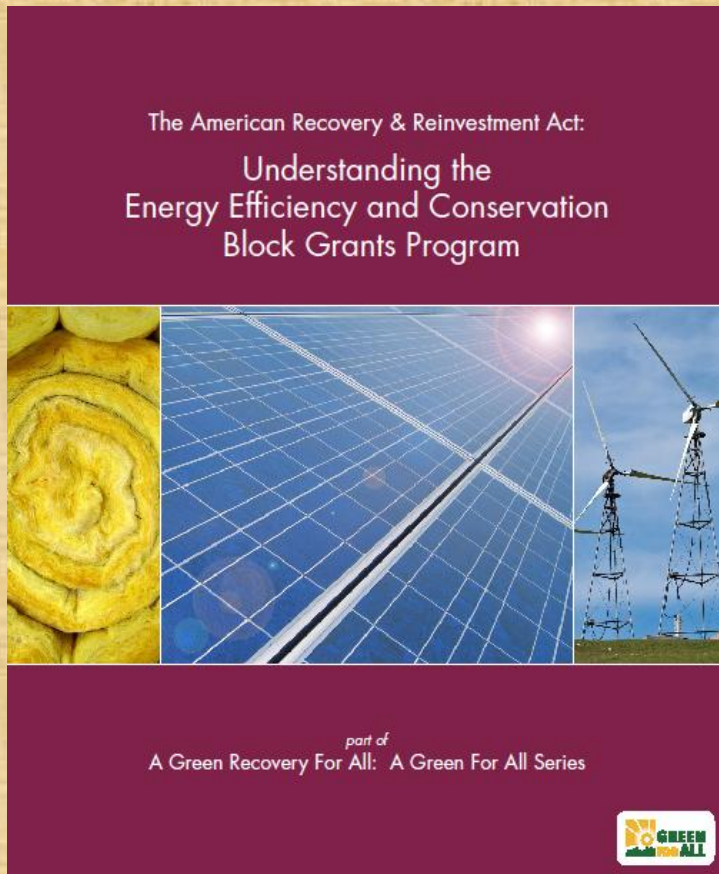


2. Bronze-Level Partner in Sustainable Georgia
- Environmental Policy Statement
  - Year 1 energy reduction – 15%
  - Identify projects to achieve year 1 goal
  - Identify potential projects for Year 2 goals

# Chatham County Progress

## 3. \$300,00 Energy Efficiency and Conservation Block Grant

- a. **\$210,000 to reduce energy consumption by 15%.**
- b. **\$15,000 to develop in-house recycling.**
- c. **\$75,000 to achieve community-wide “greenest county” goals.**



# Chatham County Progress

## 4. Action List Matrix

|                         | TRANSPORTATION  |   |
|-------------------------|---|---|
| <b>G</b>                | <b>TRANSPORTATION GOAL 1 :: COMPLETE STREETS</b><br>Enhance existing and create new streets designed and operated to enable safe, attractive and comfortable access and travel for all users ("complete" streets) – including users such as pedestrians, bicyclist, motorists, transit riders, and those with a disability. |   |
| <b>60</b><br><b>OBJ</b> | <i>Transportation Objective 1.1 :: By August 2009, compile guide-lines for complete streets for new development, including guidelines for retrofitting existing development where possible.</i>   |   |
| <b>61</b>               | <b>Action Item A ::</b> Charge Metropolitan Planning Commission (MPC) / Metropolitan Planning Organiza-tion (MPO) staff to gather and compile current data and information, including evaluation of context sensitive design.   | COMPLETE-CORE MPO Context sensitive design manual supporting Complete Streets was adopted in December 2006. |
| <b>62</b>               | <b>Action Item B ::</b> Establish guidelines for a complete street, involving stakeholders (planners, architects, developers, Georgia Department of Transportation (DOT), etc.) in review process of guidelines.  | COMPLETE-CORE MPO Context sensitive design manual supporting Complete Streets was adopted in December 2006. |
| <b>63</b>               | <b>Action Item C ::</b> Take guidelines to appropriate governmental entities for approval, adoption, and implementation.  | COMPLETE-CORE MPO Adopted in 2006. All municipalities represented on MPO Board.                             |
| <b>OBJ</b>              | <i>Transportation Objective 1.2 :: By December 2009, inventory and then prioritize specific geographic areas for implementation of complete streets program.</i>  |   |
| <b>64</b>               | <b>Action Item A ::</b> MPC, MPO and key stakeholders inventory and prioritize locations for complete streets, taking into account adopted guidelines.  | Subdivision Regulations UNDERWAY. CORE MPO. REQUIRES CHATHAM COUNTY COMMISSION POLICY ACTION.               |
| <b>65</b>               | <b>Action Item B ::</b> With key stakeholders, MPC and MPO develop an implementation plan to include prioritization of costs and funding sources.   | ONGOING-CORE MPO. REQUIRES CHATHAM COUNTY COMMISSION POLICY ACTION.   |

# Chatham County Progress

## 5. Monthly reports to the Chatham Environmental Forum



CHATHAM  
ENVIRONMENTAL  
FORUM

Chatham County Staff Update  
For the  
Chatham Environmental Forum

September 27, 2010 Meeting

1. Grant funds projects:
  - a. Media Room AC. The media room AC installation is scheduled for mid October.
  - b. Recycling. The issue of single stream recycling has become increasingly complex. Under review is a practical location for a recycling bin, and finding a vendor that will provide service for no cost or a reasonable cost.
  - c. Water Heater at Montgomery Street Courthouse. An engineering review found that operating at least one of the large boilers in the courthouse is necessary to control humidity in the building. The project status is uncertain at this point.
  - d. Fluorescent bulbs and ballast replacement. Progress continues.
  - e. Acrylic window panels in the Bull Street Courthouse. A bid package is being prepared now that funds are available to proceed.
2. I met with the County Webmaster to present ideas for an intranet site. County Departments are the intended users who would be able to track the county government's overall progress, and share departmental ideas and green program initiatives.
3. The Chatham County Commission approved a motion to require all new Chatham County funded buildings and renovations costing more than \$100,000 to achieve at least LEED Silver certification. An ordinance change will be required to do this, but the motion that was passed directed staff to amend the County Code. Changing the code is an easily accomplished administrative requirement.

# Chatham County Progress

## 6. Developing Intranet site with Webmaster

### “The Greenest County in Georgia”

In October, 2007 the Board of Commissioners passed a resolution calling for Chatham County to become the “Greenest County in Georgia” and challenged the Chatham Environmental Forum to Develop Our “Road Map.”



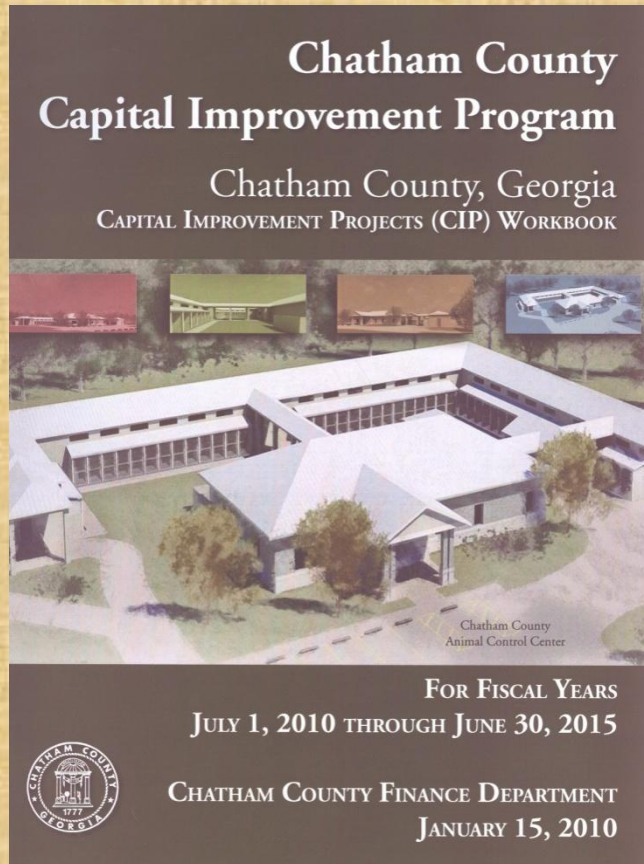
Check out these links to find out what county staff are doing to make this goal a reality

- The Chatham Environmental Forum
- Sustainable Georgia
- Chatham County's "Roadmap"
- The Achievement Matrix
- See What The Departments Are Doing
- Green/Recycled Vendors and Products
- Capital Improvement Program Planned Projects
- Submit your Ideas for Chatham County



# Chatham County Progress

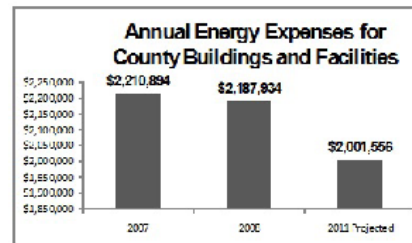
## 6. County Manager Requests



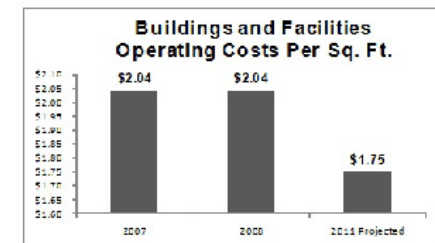
### Greenest County Initiatives Impacting the Budget

Introduction. Chatham County is committed to becoming the greenest County in Georgia and staff will be documenting progress toward reaching that goal. Future comparisons will be made using 2007 as our benchmark year. Overall energy consumption will likely increase as new buildings are acquired and new construction is completed in the near future, but the implementation of aggressive conservation measures should allow a reduction in operating costs per square foot of building space. During calendar year 2010 a net increase of 61,148 square feet of building space will be added to the county's infrastructure. Longer range plans include acquisition of a biodiesel plant, expansion of greenway trails, initiating green jobs training programs, continued purchase of hybrid and more fuel efficient vehicles, resource recycling, and a directed effort to complete the action items in the Chatham Environmental Forum's document, "A Road Map for Chatham County for Its Journey in Becoming the Greenest County in the State of Georgia."

1. By 2011, County-wide energy savings are projected to total \$331,634 for buildings that existed in 2007. Our first steps in becoming the "greenest county" are well underway. Chatham County's Green Team qualified for a Georgia Department of Natural Resources bronze level Partnership for Sustainable Georgia. Chatham County was awarded a \$300,000 Energy Efficiency and Conservation Block Grant, and these funds will be used to achieve the projected 15% decrease in energy costs for buildings and facilities that were owned in 2007. Operating costs per square foot should decline in 2011 in spite of adding a net increase of 61,148 square feet of additional space to the county inventory compared with 2007.



2.



# Chatham County Progress

## 6. LEED Certification of Major County Construction



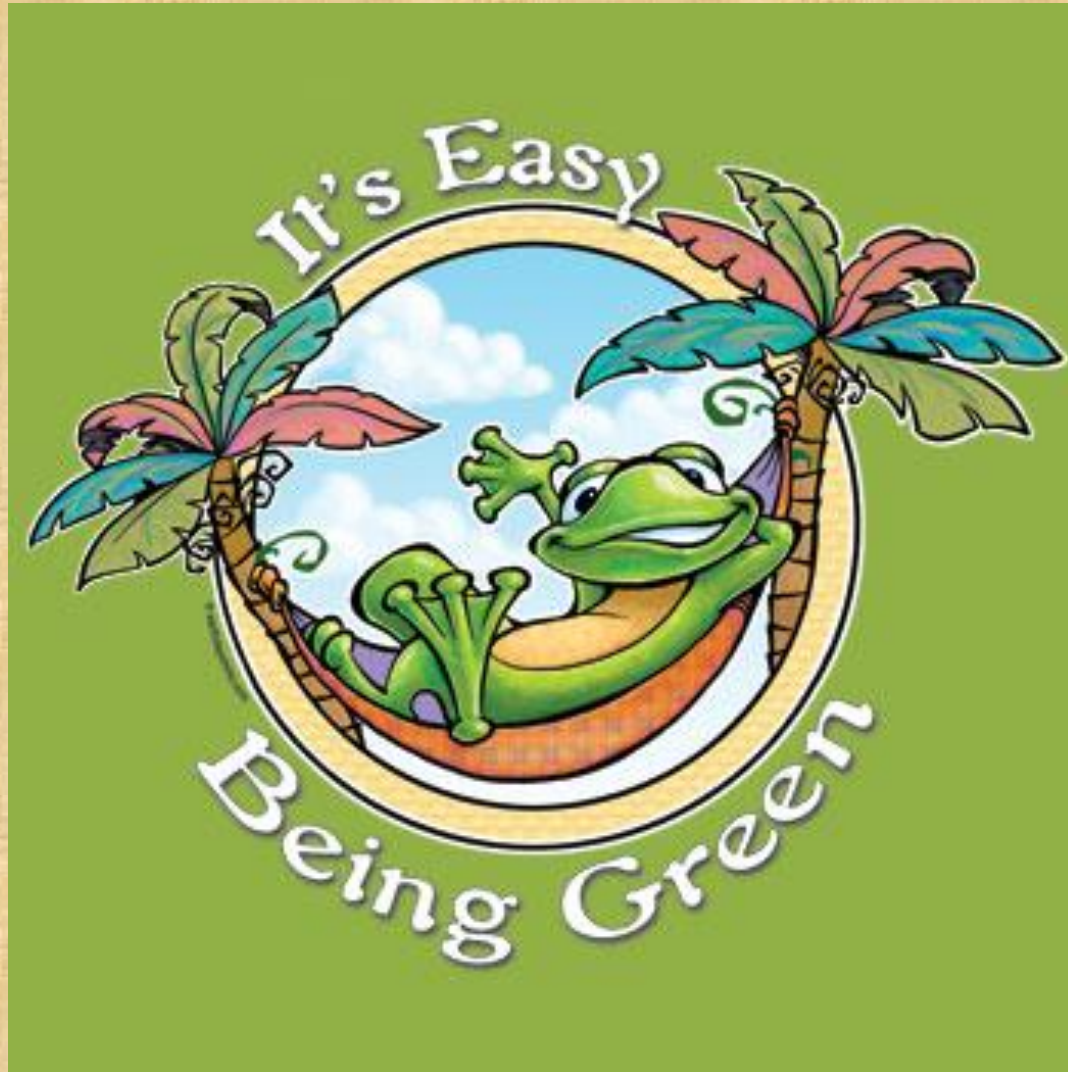
**ISSUE:** Request Board approval to require that: (1) all new Chatham County funded buildings; and, (2) all Chatham County funded building renovations costing \$100,000 or more be designed and constructed to Leadership in Energy Efficiency and Design (LEED) Silver Certification standards.

# Summary

1. **Very Rewarding experience.**
2. **Steep learning curve, new technical terms in many disciplines.**
3. **Chatham is one of two counties (Bartow) to become a partner in Sustainable Georgia.**
4. **First county to require LEED certification of county owned buildings.**



# Questions ?



# Thank You!