

SOUTHERN ENERGY EFFICIENCY CENTER

Building Energy Solutions for the South

SEEC December 2008 Update

Mission

SEEC

 The Southern Energy Efficiency Center (SEEC) is a pilot, high-performance buildings technology application center serving the southern United States.

Its overall mission is to leverage the existing interactions and outreach activities of the SEEC principals and partners to substantially increase the deployment of highperformance, beyond-code buildings across the southern region of the U.S.

 Primary funding is from the U.S. Department of Energy Building Technologies Program, administered by the National Energy Technology Laboratory.

Build collaborative partnerships with

- state and local governments
- the building delivery industry
- product manufacturers & supply chains
- utilities

- consumers and
- other energy efficiency stakeholders

Establish consensus-based goals, priorities and strategies for deployment of high performance, beyond-code buildings at the regional, state and local levels

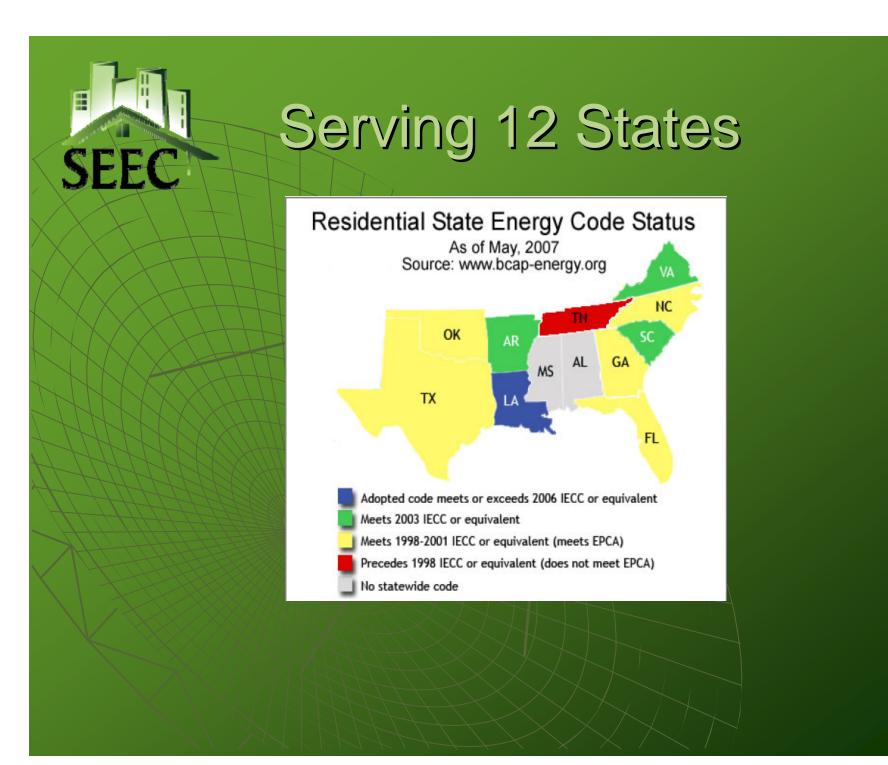
Media Outreach

- Single-source web site
- Regular releases, interviews and followup with media sources

SEEC

 Provide training, certification and education to a wide spectrum of the building design and construction, codes and standards, and consumer marketplace

Measure project energy savings using established verification tools







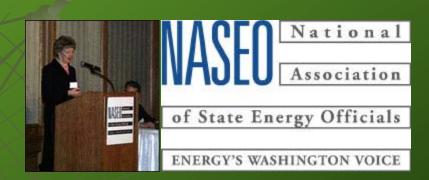
Milestone Chart

Activity / Milestone *	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Teams
Activity codes: S-Start	F- Fir	nish	С	C - Continuing			G- Go/No-Go points			ints	D - Deliverable				q - quarterly report				(Lead first)
TASK 1.0 Partnership Development																			
1.1 Establish SEO Group of 12	s		D1	F															All
1.2 Partnership Requirements	s			D2	F														All
1.3 Recruit Stakeholders	S				D3	F													All
1.4 Maintain Partnerships	S	q	q	q	q	D4,G	q	q	q	D4,G	q	q	q	D4,G	q	q	q	D4	All
TASK 2.0 Resource Development				•															
2.1 Develop SEEC Web	S			D5	F														FSEC, ESL, SF
2.2 Regional Cost Database	S					D6	F							D6					FSEC, ESL, SF
2.3 Educational Materials				S		D7,G			D7			D7			D7	F			FSEC, ESL, SF
2.4 Existing Methods and Tools				s		D8,G				D8,G				D8,G				D8	ESL, FSEC, SF
TASK 3.0 Technical and Policy Assist																			
3.1 Regional Baseline(s)			s			D9,G				D9				D9				D9	ESL, FSEC, SF
3.2 Top 10 Regional Goals			S			D10	F												SF, FSEC, ESL
3.3 "Beyond Code" Ordinance(s)			S						D11	F									FSEC, ESL, SF
3.4 Building America Homes			s			D12				D12				D12				D12	FSEC, ESL, SF
Task 4.0 Education & Training																			
4.1 Professional Training		S	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	D13	SF, FSEC, ESL
4.2 Research that Works"				S		D14			D14			D14			D14			D14	FSEC, ESL, SF
4.3 Consumer Outreach	S			D15		D16		D15		D16		D16		D16		D16		D16	FSEC, SF, ESL
4.4 Building Conferences	S					D17				D17				D17				D17	SF, ESL, FSEC
* for key to milestone and de	livera	ble c	odes	see Ta	able 3											-	-		

By June 30, 2008

• G-12 Meeting

- Feb 2008 at NASEO, Washington DC
- Also with most members at SEEA meeting in Atlanta, Nov. 2008
- One workshop
 - Building Energy-Efficient Green Homes, April, Cocoa, FL



SEEC

Deliverables

By Sept. 30, 2008

- Draft Partnership Agreements
 - Agreement drafted in March 2008
- Website
 - www.SouthernBuildings.org
- Steering Committee Recommendations –
 - ostponed until December





Deliverables

30+ Stakholders by Dec. 31, 2008

- <u>ACEEE</u>
- A<u>IA New Orleans</u>
- <u>Alabama Dept. of Economic & Community Affairs</u>
- Arkansas Energy Office
- <u>Atlantic Trust Kendeda Fund</u>
- <u>Building Performance & Comfort, Inc</u>
- <u>Cambridge Homes</u>
- <u>Center for the Commercialization of Electric</u>
- <u>Technologies</u>
- Cosella-Dorken Products
- Dallas Fort Worth International Airport Board
- <u>EarthCraft House</u>
- EarthCraft Virginia
- Electric Power Research Institute
- <u>Electric Utility Marketing Manager of Texas</u>
- Energy Conservatory
 Energy Knowledge Group
- Enterprise
- Federation of American Scientists
- Florida Dept. of Community Affairs
- Florida Dept. of Environmental Protection
- Florida Natural Gas Association
- Florida Public Utilities
- Florida Solar Energy Research and Education Founda
- <u>G.W. Robinson</u>
- <u>GA Environmental Facilities Authority</u>
- GA Tech / College of Architecture

30+stakeholders

- Global Green USA / New Orleans
- Greater Atlanta Home Builders Association
- <u>Greenprints 2008</u>
- <u>Habitat for Humanity International</u>
- Home Builders Association--Metro Orlando
- <u>Home Depot Foundation</u>
- Jacksonville Electric Authority
- Johns Manville
- Liberty Building Forensics Group
- Louisiana Dept. of Natural Resources
- LSU Ag Center
- <u>NAIMA</u>
- New Orleans Regional Planning Commission
- North Carolina State Energy Office
- Oncor
- PolySteel
- Progress Energy
- <u>RESNET</u>
- South Carolina Energy Office
- Southeast Energy Efficiency Alliance
- Southface
- <u>Texas A&M / College of Architecture</u>
- <u>Texas A&M Engineering</u>
- <u>Texas State Energy Conservation Office</u>
- <u>Tommy Williams Homes</u>
- <u>USGBC Atlanta Regional Chapter</u>
- WCI Communites, Inc.

SEEC

Deliverables

 20 Workshops By Mar. 31, 2009

- High Perforrmance Building Series
- Building Energy-Efficient Green Homes
- Energy Efficiency and Green Building training for 25 Habitat for Humanity International affiliates.
- Developing sustainable training for NeighborWorks Training Institute.
- Developed RESNET Green Rater training. Taught at 2008 RESNET conference.
- Will teach at 2009 national RESNET conference.

- Presentation on Builders Challenge at NC ENERGY STAR Conference.
- Updated EarthCraft House Builder training to incorporate Building America Builders Challenge. Taught courses.
- Updated EarthCraft House Realtor training to incorporate Building America Builders Challenge. Taught courses.
- Updated HERS training to incorporate Building America Builders Challenge. Taught courses.
- LEED for Homes course.

• By Mar. 31, 2009

- Steering Committee with Go – No Go
- Cost Database Established
 - This task revised
- Four sets of printed promotions
 - Top Ten Commercial Building Recommendations
 - Energy-efficient School Humidity Control
 - Two others TBD





- By Mar. 31, 2009 continued
 - M&V protocol
 - Regional Baseline
 - Regional Goals
 - Outreach Plan
 - Specific Outreach
 - 5-course workshop series on High Performance Green Buildings
 - BA Case Studies
 - TBD
 - Two Conferences
 - Greenprints 2008
 - 16th Hot Humid
 Symposium





GREENPRINTS 2007 Sustainable Communities by Design



Fifteenth Symposium on Improving Building Systems in Hot and Humid Climates

Beyond Mar. 2009

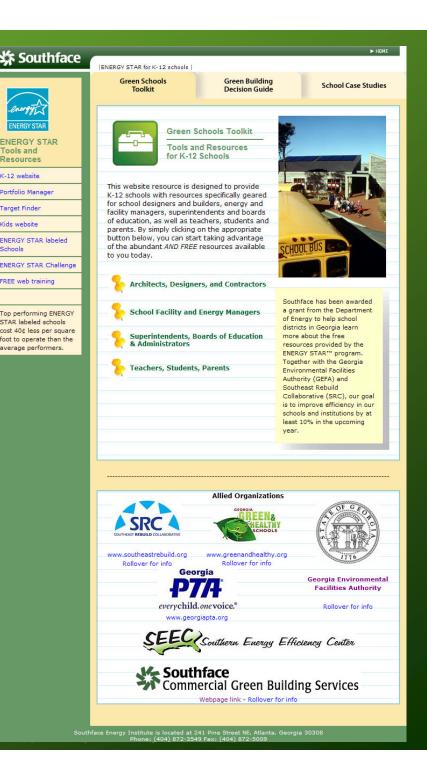
- G-12 Meetings
- Workshops
- Outreach

- Case Studies
- Website and Cost Database Updates
 Changed to webinars
- Green Building Ordinances



Inly Green Building Program Partner FF **Builders Challenge** Department of Energy Recognizing Energy Leadership in Homebuilding Research Toward Zero Energy Homes U.S. Department of Energy EnergySmart Home Scale[™] SENSIBLY BUILT Estimated annual energy usage: Average EarthCarft House Atlanta GA z Electric (kWh) 7728 Rated by Southface Energy Institute Rating conducted 2007 S Natural gas (Therms) 237 Ø Conditioned floor area (sq. ft.): 3,312 www.buildingamerica.gov/challenge Meets The Builders Challenge Your Home! π C Poor Best Energy Energy Performance Performance 70 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 THE ENVIRONMENT Atlanta Net Zero Builders Typical Typical existing new Challenge Energy home home (70 or lower) Home **Home Builders** Association 1 Southface U.S. DEPARTMENT OF ADBuilder EARTH FNERG CRAFT **Responsible Solutions for Environmental Living**

Schools Outreach SEE Online module Presentations to decision makers and educators LEED admin and energy modeling for Georgia schools Southface **Responsible Solutions for Environmental Living**



SEEC Greenprints Conference



2008 Keynote Kenneth Ostrowski McKinsey



March 25 & 26, 2009 Atlanta, GA



2009 Keynote Edward Mazria Architecture 2030



Atlanta Green Building Task Force Commercial Green Building Ordinance SEEC 16 Lead Partner Meetings 3 Drafts of City of Atlanta Green Building Ordinance Released for Public Comment **4 Public Stakeholder Meeting** Average of 60 participants 6 Individual Stakeholder Meetings ULI Atlanta Council Council for Quality Growth Atlanta Apartment Association AIA Atlanta Chapter Greater Atlanta Homebuilders City Council Membership Scheduled to be Presented to Atlanta City Council in January 2009



Florida cost share

Progress to Date:

SEEC

- Green Building Model Ordinance for Local Governments
 - Basis for Charlotte County
- Campaign Plan for Green Buildings
- New web site: *MyFloridaGreenBuilding.info*
 Includes new Excel solar water heater calculator

MODEL GREEN BUILDING ORDINANCE



Report of the Florida Green Building Workgroup to The Florida Building Commission Prepared By: Florida Solar Energy Center University of Central Florida January 25, 2008

Florida cost share

Also:

- Cost and benefits of various building measures
- Appliance standard recommendations
- Tighter building codes



More Information



Home About Us Education Events Partners Programs Resources

Energy-Efficient Buildings

Reduce Costs...Improve Performance...Increase Comfort

The Southern Energy Efficiency Center guides you to information, programs, incentives or people with the expertise you need to implement your project:

- Training and special events
- Data, facts, research reports, software tools Product and technology reviews.
- Engineering analysis, design review or site assessments

Mission Statement

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What is DOE's New E-scale?



The E-Scale is an easy-tounderstand graphic that allows homebuyers to see — at a glance - how the performance of a particular home compares to that of others.

See the Builders Challenge on the Programs page for more information.

www.SouthernBuildings.org