

SPEER's Building Energy Codes Program

2014 Building Technologies Office Peer Review



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U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

SPEER Membership



Project Summary

Timeline:

Start date: January 31, 2014

Planned end date: January 30, 2017

Key Milestones

Contract negotiation and funding

Budget:

Total DOE \$ awarded to date: \$60,000

Total future DOE \$: \$50,000 more committed later in 2014

Anticipated DOE \$ FY2015 - \$225,000

Target Market/Audience:

Texas and Oklahoma

Almost 30 million in population

147,000 Single Family Home Starts in 2013

Two areas with the most severe air quality non-attainment, two more in near non-attainment.

Engaging local governments , codes officials, and building and design professionals.

Key Partners:

SECO
REEO's
HARC
BCAP
BOAT
SPEER Membership

Project Goal:

To increase adoption, implementation, compliance, and enforcement of building energy codes, through outreach, collaboration, and education.

Purpose and Objectives

Problem Statement: In spite of statewide adoption of an energy code, local adoption and compliance is significantly lagging, and there is no authority for state enforcement in Texas. We are just beginning to engage in Oklahoma.

Target Market and Audience: Texas has the largest number of construction starts and so greatest potential for impact of energy codes – more than twice the next state. We plan to raise awareness and compliance with 2009 or stronger energy codes through outreach and education on regional and local levels – reaching building officials, local government leaders, and building design professionals.

Planned Contribution to Energy Efficiency: Our goal is for every large city in Texas (over 10,000 in population) to be enforcing 2009 or stronger energy codes by 2016. We also plan to have at least 30% of those cities enforcing 2012 or 2015 energy codes by 2016. With the expected growth in population, this represents significant energy savings. Goal planning in Oklahoma will come out of the Code Collaborative efforts.

Approach

Approach: We began by establishing a Texas Energy Code Compliance Collaborative and providing these stakeholders with the first ever compliance baseline data. We have completed the same baseline data for Oklahoma and will be establishing a similar collaborative effort there in 2014.

Key Issues: Both states require local adoption and enforcement of codes, which have a significant lag and no state enforcement authority. Our baseline data shows that 45% of the large cities (over 10,000 in pop.) have yet to adopt 2009 IRC or IECC.

Distinctive Characteristics: Our approach is to offer resources, training and assistance to the local government leaders, building officials, builders and design professionals, as we develop a publishable report to shed light on this issue. We plan to develop localized efforts utilizing our Energy Code Ambassadors.

Progress and Accomplishments

Discoveries: The low level of adoption and enforcement with state energy code has been a surprise to the Compliance Collaborative stakeholders.

Accomplishments: Along with the baseline compliance data and facilitating the Texas Energy Code Compliance Collaborative, we have established the largest team of Energy Code Ambassadors in 2013 and have received private funding to double that effort in 2014.

Project Contribution to Energy Efficiency : We now report 31 cities in Texas have adopted 2012 IECC, which represents almost 4M in population.

Awards/Recognition: We have been leveraging our members support with private grant funding and state funding, to get this program to this significant launching place. Only two years from our initial formation, SPEER now has 40 member companies, utilities, non-profits, and local governments who recognize our leadership in this program and other SPEER initiatives .

Project Integration and Collaboration

Project Integration: We work very closely with the State Energy Conservation Office (SECO). SPEER, BCAP, ICC, BOAT, and SECO co-sponsored our Energy Codes Ambassador Program.

Partners, Subcontractors, and Collaborators: In addition to our members, we plan to collaborate with the Houston Advanced Research Center, the Building Officials Assoc. of Texas, Councils of Government, and City Sustainability Officers to support several of our initiatives.

Communications: We held SPEER's Second Annual Summit which included a breakout specifically to discuss code adoption and compliance, and to invite additional stakeholders to become engaged. We spoke at the 2013 BOAT Conference, and the 2013 Clean Air Through Energy Efficiency conference and will continue to leverage similar opportunities. We hold monthly calls with our Ambassadors, and are now scheduling our first localized working groups in Central Texas and Dallas / Fort Worth by collaborating with the Councils of Government.

Next Steps and Future Plans

Next Steps and Future Plans:

Since this is the youngest of the REEO's, we are learning quickly, responding to opportunities and stepping around barriers. We plan to continue our efforts in the coming years and make significant impacts in our region, and specifically to:

- Establish and Energy Code Compliance Collaborative in Oklahoma.
- Double our Energy Code Ambassador Team to include Oklahoma.
- Develop localized working groups that focus on energy code education and compliance, with a variety of stakeholders.
- Work with city leaders to understand the benefits of code compliance.
- Develop a network that will support adoption of future codes.
- Publish a baseline survey for Texas and Oklahoma.

REFERENCE SLIDES

Project Budget

Project Budget: Project budget for 2014 is projected to be \$110,000.

Variances: None

Cost to Date: \$22,800

Additional Funding: We currently leverage funding from private grants and state financial assistance of \$90,000 for FY2014 and hope to continue to receive this generous support.

Budget History

FY2013 (past)		Begin Jan.31, 2014 FY2014 (current)		FY2015 (planned)	
DOE	Cost-share	DOE	Cost-share	DOE	Cost-share
0	0	\$110,000	0	\$225,000	0

Project Plan and Schedule

SPEER Building Energy Codes Program

Work began during pre-contract period December 1, 2013

Project Schedule												
Project Start: Jan. 31, 2014	Completed Work											
Projected End: Jan. 30, 2017	Active Task (in progress work)											
	◆ Milestone/Deliverable (Originally Planned)											
	◆ Milestone/Deliverable (Actual)											
	FY2013				FY2014				FY2015			
Task	Q1 (Oct-Dec)	Q2 (Jan-Mar)	Q3 (Apr-Jun)	Q4 (Jul-Sep)	Q1 (Oct-Dec)	Q2 (Jan-Mar)	Q3 (Apr-Jun)	Q4 (Jul-Sep)	Q1 (Oct-Dec)	Q2 (Jan-Mar)	Q3 (Apr-Jun)	Q4 (Jul-Sep)
Milestone: Update regional code data/strategies - provide technical assistance	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Milestone: Hold meeting of the Texas Energy Code Compliance Collaborative			◆		◆		◆		◆		◆	
Milestone: Expand the participation in Texas Energy Code Compliance Collaborative			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Milestone: Develop an Oklahoma Energy Code Compliance Collaborative				◆	◆	◆	◆	◆	◆	◆	◆	◆
Milestone: Hold meeting of the OK Energy Code Compliance Collaborative					◆		◆		◆		◆	