The Building Codes Assistance Project

ANNUAL REPORT

2010 + 2011

BCAP Dedicated to the adoption, implementation, and advancement of building energy codes

visit the BCAP-hosed energy codes best practice network at energycodesocean.org
the bcap toolbox

STATE & LOCAL ASSISTANCE
On the ground help

CONSUMER AWARENESS
Connecting codes to lower utility bills

LEGISLATIVE ASSISTANCE
Moving laws forward

TECHNICAL SUPPORT
Providing assistance in the field

COMPLIANCE PLANNING
Assistance with implementation of newly adopted codes

OUTREACH
Alerts for advocates

COLLABORATION
Building coalitions to advance codes together

PRESENTATIONS
Educational materials for all stakeholders

CODE TRAINING
Workshops keep building professionals up-to-date

CODE AMBASSADORS
Encouraging code officials to learn from one another

PILOT PROJECTS
Testing promising ideas

STATE FACTSHEETS
Identifying local opportunities to save energy

INCREMENTAL COST ANALYSIS
Unlocking the true expense of building to the new code

CODE.Builder
Piece-by-piece breakdown of the energy code

OCEAN
Bringing it all together: energycodesocean.org
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2010 and 2011 were exciting years for energy code advocates in general and BCAP in particular. Spurred by requirements in the American Recovery and Reinvestment Act of 2009 (Recovery Act), a record number of states took action to adopt new versions of the energy codes. Since January 2010, the number of states adopting the 2009 IECC for residential construction has surged from six to an expected 27 by mid-2012. Likewise, the number of states adopting the 2009 IECC or ASHRAE 90.1-2007 for commercial construction increased from one to 30 during the same two-year period. Buoyed by these successes, BCAP staff will redouble our efforts in 2012 to “color in the map” (see pages 16 and 17) with even more adoptions of the 2009 codes, in addition to assisting several pioneering states that are considering adoption of the 2012 codes.

Code adoption is only half the battle, the adage goes, because energy-saving benefits are only possible when the code is implemented by the long list of building professionals—architects, engineers, builders, contractors, and code officials. To meet this challenge, BCAP is also working to aid these professionals in ensuring that code adoption translates into code compliance. Our largest effort over the past two years has been our Compliance Planning Assistance (CPA) program. Working in 15 states, we collaborated closely with state and local officials to identify gaps in energy code infrastructure and compliance and provided clear recommendations for how each state could move code compliance rates forward.

In 2010 and 2011, BCAP staff spent more time than ever in the field, interviewing hundreds of code officials and practitioners and developing new resources to help improve design, building and inspection practices. We developed new and important partnerships, exemplified by our collaboration with Consumers Union to create materials that inform potential homebuyers about the importance of energy-saving codes. Finally, we began work to provide state-specific cost/benefit analyses that will debunk the first-cost-focused myth that use of the 2012 IECC will increase the cost of a new home to the extent that it becomes too expensive for the marketplace.

We believe the stakes for our work are high, as buildings represent roughly 40 percent of all energy use in the U.S. Improving the energy efficiency of buildings will significantly lower energy use and carbon emissions from the building sector, providing long-term cost savings for home owners and businesses, who can, in turn, save and invest in our economy.

I am most fortunate to have joined this enthusiastic and effective BCAP team in October 2011. We are thankful for our many friends and supporters, and we look forward to strengthening our collective efforts to improve the energy efficiency of the built environment.

Maureen Guttman, AIA
EXECUTIVE DIRECTOR
BUILDING CODES ASSISTANCE PROJECT
our mission statement

The Building Codes Assistance Project strives to be the premier resource for energy code support, coordination, technical assistance, news and information.

Our mission is to reduce the energy consumed in the construction and operations of buildings by working with national, state, and local governments and other stakeholders to promote the adoption and implementation of building codes and standards.

The Building Codes Assistance Project (BCAP) is an ongoing initiative of the Alliance to Save Energy, a nonprofit organization that promotes energy efficiency worldwide through research, education and advocacy.

BCAP provides custom-tailored assistance on building energy code adoption and implementation. We assist state and local regulatory and legislative bodies and help coordinate others representing industry, consumers, labor, and environmental interests. BCAP provides states with code adoption support on behalf of the U.S. Department of Energy (DOE), and coordinates with DOE technical assistance (see energycodes.gov for more information).

BCAP receives additional funding from private foundations, and works with states as a part of State Energy Program (SEP) grant projects. BCAP collaborates with regional energy efficiency organizations, state energy offices, environmental groups, industry, utilities, and other entities to form and sustain strong relationships and facilitate coordination on mutual goals.
The Energy Codes Universe continues to expand, as new stakeholders join the effort to reduce building energy consumption through the adoption and implementation of the model energy code. In the past two years, BCAP’s Compliance Planning Assistance project helped state representatives identify and reach out to various stakeholder groups under-represented in the energy code process. Work in 2012 will build on these efforts by establishing energy code compliance collaboratives in a number of key states.

BCAP also launched a consumer awareness campaign with Consumers Union to make a consumer rights argument for energy codes. The team is exploring the possibility of working with other non-traditional actors in 2012, including the real estate, lending, and appraisal communities. Moreover, BCAP increased its collaboration with other groups on energy code adoption and compliance issues: the Institute for Market Transformation (IMT), the National Association of State Energy Officials (NASEO), and the Regional Energy Efficiency Organizations (REEOs), among others.
The United States has seen major gains in building energy code policy at the state level over the past three years. The American Recovery and Reinvestment Act (Recovery Act) in early 2009 proved to be a major catalyst for this activity, as it required states to adopt mandatory energy codes and develop plans to achieve 90 percent code compliance. At the time the Act was passed, the required model codes (2009 IECC and ASHRAE Standard 90.1-2007) had not been adopted by any states, but as of January 2012, 31 states have adopted commercial codes that meet or exceed this baseline, and 24 states have adopted residential codes that meet or exceed this baseline. Projections for January 2013 indicate that several states will move beyond this baseline standard by adopting the latest editions of these model codes – the 2012 IECC and ASHRAE Standard 90.1-2010.

In 2011 alone, 12 states implemented commercial codes and 10 states implemented residential codes that meet or exceed the energy savings of the 2009 IECC and ASHRAE Standard 90.1-2007. Three other states saw similar codes become effective on January 1, 2012, and three additional states have officially adopted similar codes slated to become effective in the first half of 2012.

BCAP will continue its work into 2012 and 2013 focusing on a number of target states that lag behind in adoption of the codes required under the Recovery Act, as well as supporting those states moving into adoption of the 2012 IECC and ASHRAE Standard 90.1-2010.
By the end of 2011, over 40 states had achieved, or were taking some action towards adopting, the latest model codes (2009 IECC and ASHRAE Standard 90.1-2007). In 2009, nearly 90% of all new residential and commercial construction occurred in these 41 states that are working to implement updated energy codes.

1Based on 2009 United States Census Data
2Based on 2008 Reed’s Construction Valuation
3Assumes 100 percent compliance with model energy codes by January 1, 2012 and 2006 energy prices

### State Model Energy Code Adoption Status as of January 2012

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>On Track to Meet Recovery Act Commitment</td>
<td>41</td>
<td>89%</td>
<td>89%</td>
<td>88%</td>
<td>89%</td>
<td>89%</td>
<td>86%</td>
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<tr>
<td>Model Energy Codes in Effect (Both Res. &amp; Com.)</td>
<td>24</td>
<td>43%</td>
<td>47%</td>
<td>35%</td>
<td>38%</td>
<td>49%</td>
<td></td>
</tr>
<tr>
<td>Codes Adopted, Effective at Later Date</td>
<td>3</td>
<td>10%</td>
<td>14%</td>
<td>10%</td>
<td>11%</td>
<td>8%</td>
<td></td>
</tr>
<tr>
<td>Regulatory Process to Adopt Codes Underway</td>
<td>10</td>
<td>29%</td>
<td>23%</td>
<td>35%</td>
<td>34%</td>
<td>23%</td>
<td></td>
</tr>
<tr>
<td>Legislation to Adopt Codes Introduced</td>
<td>4</td>
<td>7%</td>
<td>5%</td>
<td>8%</td>
<td>7%</td>
<td>6%</td>
<td></td>
</tr>
<tr>
<td>No Process to Adopt Codes Underway</td>
<td>10</td>
<td>11%</td>
<td>11%</td>
<td>12%</td>
<td>11%</td>
<td>11%</td>
<td>14%</td>
</tr>
</tbody>
</table>
new initiatives in 2010-2011

1  COMPLIANCE PLANNING ASSISTANCE PROGRAM
2  INCREMENTAL COST ANALYSIS, 2009 IECC
3  CONSUMER OUTREACH CAMPAIGN
4  CODE ADOPTION, TRAINING, AND COMPLIANCE GRANTS
   alabama
   kentucky
   missouri
   nebraska
   nevada
   texas
compliance planning assistance program

With 90 percent compliance targets looming, BCAP sought to bridge the gaps and create strategic plans to meet this goal in fifteen states

To meet the Recovery Act’s compliance targets, BCAP took on the task of helping fifteen states meet their goals. The Compliance Planning Assistance Program (CPA) was divided into two Phases:

Phase I, in which BCAP worked with fifteen states, consisted of the development of a Gap Analysis Report which identified areas for improvement within the states’ code adoption, implementation, and measurement and verification activities. For each gap identified, BCAP provided recommendations to help improve compliance.

In Phase II, BCAP continued work with ten of the Phase I states to generate individual Strategic Compliance Plans for meeting the 90 percent targets. As part of this process, BCAP worked closely with building departments and energy offices in each state to determine the feasibility of recommendations made in the Gap Analysis Report and provide sample project ideas and resources for use by the state. The resulting reports presented each recommendation as an actionable item and included a proposed timeline of events.

Following the completion of the CPA program, many states began executing the action items listed throughout the reports. BCAP plans to offer planning assistance to other states in 2012, leveraging the best practices and lessons learned from this project.

“...The plan is quite valuable as it provides us with BCAP’s expert recommendations resulting from a compilation of years of knowledge from a staff focused on advancing energy codes. For those of us wearing many hats, the evolution to compliance probably would not happen without this type of guidance."

- South Carolina Energy Office

PARTICIPATING STATES

<table>
<thead>
<tr>
<th>Phase I</th>
<th>Arkansas, Nevada, Ohio, South Dakota, Vermont</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phases I &amp; II</td>
<td>Colorado, Delaware, Illinois, Kentucky, Michigan, New Hampshire, New Mexico, Texas, South Carolina, West Virginia</td>
</tr>
</tbody>
</table>
incremental cost analysis 2009 IECC

Presenting the financial benefits of the code makes adoption easier

In the past two years, BCAP has continued to help state and local governments understand the incremental construction costs that are associated with more recent versions of the energy code. By identifying and putting a price tag on specific energy code upgrades, and comparing them against the anticipated energy savings, this work begins to address concerns about the costs that home builders—and eventually home buyers—will encounter if a new code is adopted. The thorough technical and financial analysis presented in these studies helps local code advocates, including BCAP staff, as they talk to decision makers at the state and local level.

In 2010, BCAP developed 29 state-specific handouts to support the 2009 IECC. Using graphics and plainspoken language, these resources explain how construction cost increases are amortized within each home buyer’s mortgage. Each handout shows the month that home buyers will break even on their investment and afterward achieve an annual “profit” through lower utility bills. By making the value proposition on behalf of consumers, these resources assist local adoption efforts and generate interest from consumer advocates everywhere.

These efforts are helping to change the conversation in states and cities considering an update to their code. As some states have moved to the 2012 IECC, BCAP continues to update its efforts to customize these resources in response to adoption opportunities and requests from local partners.

Two-page spread of incremental cost analysis for Wyoming.
consumer outreach campaign

Consumers have a right to homes that meet national energy efficiency standards, but they lack a basic understanding of how energy codes work.

Beginning in November 2010, BCAP worked to create groundbreaking consumer resources now available on OCEAN’s new Consumer Portal. These materials inform homeowners and prospective buyers about building energy codes and can be used when assessing energy-saving improvements or when comparison shopping for a new home. As well, these efforts aim to help make energy codes a consumer protection issue by educating consumer advocates about the energy savings achievable through code adoption and compliance.

BCAP partnered with Consumers Union to create a nationwide survey, which found that an overwhelmingly high percentage of consumers assumed every home to meet national model energy codes. With these findings, the resulting campaign tackled the challenges of adoption and compliance with an entirely new approach.

Materials created for the campaign help consumers identify whether their home is up to the model energy code and assess if codes are being successfully enforced in their communities. Creation of these materials represents the first stage in a larger educational campaign. In 2012, BCAP will continue to partner with Consumers Union, state energy offices, and regional energy efficiency groups to promote these materials and raise awareness about the benefits of energy-efficient homes and businesses.

Five-page consumer energy code guide.
As the adoption of the 2009 IECC increased during 2011, many states began work to implement the new codes.

**ALABAMA**

In spring 2010, BCAP partnered with the Energy Division of the Alabama Department of Community and Economic Affairs (ADECA) to document energy code needs and best practices, and offer recommendations for improvement. In 2011 BCAP again worked with ADECA through a grant from the Pacific Northwest National Laboratory. In conjunction with the ICC, BCAP conducted an Energy Code Ambassadors training workshop at the Code Officials Association of Alabama (COAA) annual conference. BCAP also created checklists and technical guides based on the new energy code for home buyers, inspectors, homeowners and home builders. Through outreach activities, BCAP also engaged and expanded its network of stakeholders in the state.

**KENTUCKY**

BCAP provided support for the Commonwealth of Kentucky through May 2011, as the state had recently adopted the 2007 Kentucky Residential Code and requested assistance with consumer and professional awareness. Working closely with the Kentucky Department of Housing, Buildings, and Construction, as well as the Kentucky Department for Energy Development and Independence, BCAP created several advocacy and technical resources customized for the Commonwealth, including checklists and guides for homeowners, home buyers, and professionals. Additionally, BCAP developed a Training Assessment and a 2009 IECC residential and commercial curriculum and conducted pilot trainings. Finally, BCAP assisted the Commonwealth in designing and developing the planned Kentucky Online Training website, including 15 video segments outlining critical elements of the residential code.

**MISSOURI**

In spring 2011, BCAP undertook a Recovery Act-funded project with the Missouri Department of Natural Resources to help the state improve its energy code compliance. The first step in the process was to assess the strengths and weaknesses in the state’s energy code infrastructure, documented in a Missouri Gap Analysis Report. Building on its research, BCAP canvassed the state to gather input directly from local building departments, home builders, and other key players. BCAP then created the Missouri Local Energy Code Action Kit, designed to provide municipalities and counties with information and resources to support the adoption of the 2009 IECC and its enforcement. The Action Kit is accompanied by an array of climate zone-specific consumer, advocacy, and technical resources, such as an energy code guide, checklists, and an incremental cost analysis.
NEBRASKA
In 2010, BCAP assisted the Nebraska Energy Office in its effort to draft a bill to update the Nebraska Energy Code — which was based on the 2003 IECC — to the 2009 IECC. BCAP staff testified before the Nebraska Unicameral Legislature’s Urban Affairs Committee in February 2011, submitted written comments, and provided legislators packets with state-specific and general resources on energy codes. Following the unanimous adoption by the state legislature, the energy office contracted BCAP to assist in compliance efforts for the 2009 IECC. BCAP collaborated with stakeholders statewide and authored a Gap Analysis Report, state climate zone-specific incremental cost analyses, and a homeowner guide and checklist for purchasing a compliant new home.

NEVADA
BCAP provided on the ground support for the state of Nevada throughout early 2011, as the state planned to mandate the enforcement of the 2009 IECC at the local level in 2012. Anticipating the need for training at the code enforcement level, BCAP helped launch an Energy Code Ambassadors Program tailored to the state, where seven code officials were trained on the updates to the IECC and importance of the code. These code officials were in turn encouraged to share their knowledge with other contacts throughout the state. Additionally, BCAP assisted the University of Nevada, Reno with its five-year strategic plan for code adoption, implementation, and enforcement in order to reach 90 percent compliance by 2017. Finally, BCAP developed a Training Assessment, which identified the current best practices and activities in the state as well as the next steps to improve compliance.

TEXAS
BCAP played a role in Texas’ training blitz to get code officials and industry professionals up-to-date on the state’s new Building Energy Performance Standards, based on the 2009 IECC. Specifically, BCAP was responsible for assisting in the development of the residential and commercial training segments, including an advocacy component, which was delivered in 100 sessions to attendees in 33 different Texas municipalities through January 2012. Additionally, BCAP engaged stakeholders throughout the state in order to determine the best steps forward for educating professionals and improving compliance. These conversations were summarized in the Training Assessment, finalized by BCAP in January 2012 as part of the subcontract.
the status of codes in the united states
ASHRAE Standard 90.1-2010 or equivalent
ASHRAE Standard 90.1-2007 or equivalent
ASHRAE Standard 90.1-2004 or equivalent
ASHRAE Standard 90.1-1999 or equivalent
precedes ASHRAE Standard 90.1-1999 or no statewide code

Commercial Status AS OF JANUARY 2010
Statewide code meets or exceeds:

- ASHRAE Standard 90.1-2010 or equivalent: 0
- ASHRAE Standard 90.1-2007 or equivalent: 7
- ASHRAE Standard 90.1-2004 or equivalent: 22
- ASHRAE Standard 90.1-1999 or equivalent: 9
- precedes ASHRAE Standard 90.1-1999 or no statewide code: 13

Commercial Status AS OF JANUARY 2012
Statewide code meets or exceeds:

- ASHRAE Standard 90.1-2010 or equivalent: 1
- ASHRAE Standard 90.1-2007 or equivalent: 30
- ASHRAE Standard 90.1-2004 or equivalent: 7
- ASHRAE Standard 90.1-1999 or equivalent: 2
- precedes ASHRAE Standard 90.1-1999 or no statewide code: 11
**GEORGIA**

Georgia’s 2010 code update cycle offers one example of how BCAP’s expertise in code processes intersects with its latest outreach tools. In 2010, the Georgia Department of Community Affairs (DCA) State Codes Advisory Committee (SCAC) convened the 2009 IECC Task Force and Residential Green Building Task Force to develop state-specific, strengthened versions of the 2009 IECC and the 2009 National Green Building Standard (ICC-700), respectively. For the better part of a year, BCAP staff observed local working group meetings of stakeholders and regularly publicized them through OCEAN and Code Alert Bulletins.

In April 2010, the Georgia Senate voted on an appropriations bill that would have eliminated funding for the DCA Construction Codes and Industrialized Buildings Program for the next fiscal year. Within three hours, BCAP sent out an action alert through the Code Alert Bulletin urging advocates to contact Georgia legislators to restore the program’s funding in the bill’s conference committee vote. BCAP’s language was used in similar action alerts later sent by the Georgia chapters of Sierra Club, ICC, ASHRAE, USGBC, and other supporters. Three days later, legislators restored the appropriations. DCA went on to adopt the updated codes in July and began implementing them in January 2011, complete with the nation’s first mandatory statewide blower door and duct blaster testing requirements which took effect in July.

**NEW YORK**

BCAP was a key figure in the update of the Energy Conservation Construction Code of New York State (ECCCNYS). BCAP helped to develop a proposal strengthening the base versions of the 2009 IECC and ASHRAE Standard 90.1-2007. These enhancements included improved requirements for shared wall insulation and air sealing in the important low-rise multifamily housing sector. Additional work focused on including the most up-to-date requirements for commercial air barriers, which add significant energy efficiency to the building envelope. These provisions became a part of the 2010 ECCCNYS approved by the State Fire Prevention and Building Code Council in September 2010, and became effective in December 2010. BCAP staff also addressed late builder opposition to the proposed regulations as well as a bill in the New York State Assembly to amend the Energy Law of New York State to remove an exception known as the “50% Rule” that often was confused in interpretation, thus allowing many commercial renovations, additions, and alterations from being subject to the current state energy code unless the project affected more than half of the building systems.
Oklahoma

In October 2010, BCAP staff traveled to Oklahoma City at the request of the Oklahoma Uniform Building Code Commission (OUBCC). The state had received little attention from advocates in the past decade as it had declined to update its building energy efficiency standards over the past few code cycles. BCAP began fostering a new advocacy network to identify local champions on energy code issues, including the Oklahoma City Mayor’s Office of Sustainability, the Oklahoma Sustainability Network, the Oklahoma Department of Commerce (the state energy office), and the Oklahoma chapter of the Sierra Club. In collaboration with the Responsible Energy Codes Alliance (RECA), BCAP testified before the Commission, outlining the changes in the most recent model energy code as well as the tremendous savings they offer to homeowners and businesses. Following these actions, legislators in the state capitol recently introduced a bill to adopt the Commission’s recommendations to update Oklahoma’s residential energy code. BCAP expects to participate in the process in 2011 to update the state’s commercial energy code.

South Carolina

In 2011 BCAP staff attended meetings of the South Carolina’s Public Utility Review Commission (PURC) in support of the statewide adoption of the 2009 IECC. For meetings, BCAP staff provided incremental cost estimates and negotiated with the state Home Builders’ Association (HBA), regional groups, and local stakeholders on a mutually agreed-upon incremental cost for the 2009 IECC. As a result of this meeting and other ongoing work, the state HBA now supports the adoption of the updated energy code.

“The Department of State’s Energy Unit has seen a reduction in staffing, which makes the need for support by Agencies such as BCAP more crucial. BCAP has been a valuable ally and resource for our organization. Specific instances of support include:


- New York State Department of State Codes Division
looking ahead to 2012

1. INCREMENTAL COST ANALYSIS, 2012 IECC
2. ENERGY CODE ADOPTION SUPPORT
3. LOCAL IMPLEMENTATION SUPPORT
4. COMPLIANCE NETWORKING
5. ON THE GROUND EFFORTS
   - energy code ambassadors program
   - consumer outreach
   - delaware
   - georgia
   - india
   - international code council
Incremental Cost Analysis, 2012 IECC

Building on success from the previous year, BCAP will provide state-specific cost/benefit analyses on the new energy code.

The latest version of the model energy code, the 2012 IECC, represents an important step forward in efforts to improve home construction and save energy for buyers. While these code changes represent common-sense improvements, builders and contractors unfamiliar with the new code have concerns over added construction costs. To allay these concerns and inform adoption decisions at the state and local level, BCAP has conducted incremental cost-benefit research and analysis for early adopters of the 2012 IECC. At the request of local partners, BCAP has already produced on-demand analyses for states and large metro areas in Colorado, Illinois, Minnesota, Missouri, Pennsylvania, Texas, and Utah, among others.

Building on these early efforts, BCAP has begun work on a larger study that will analyze the incremental cost of the 2012 IECC in states likely to consider adoption. This study will build on existing BCAP efforts by documenting each state’s existing building practices and identifying the building components that are upgraded under the new code. In addition to a report that presents the project’s findings, BCAP will create an encore set of two-page handouts for each state which detail building upgrades. These resources, pitched at decision-makers and buyers, will show how energy savings enable buyers to speedily recoup their investment and save thousands of dollars over the lifetime of their mortgage.
energy code adoption support

To ensure states stay on course to meet adoption targets, BCAP will be on the ground in support of local stakeholders

ADOPTION SUPPORT & ASSISTANCE

BCAP’s adoption support strategy in 2012 will be separated into two categories:

**Quick-Response**

BCAP will provide adoption support that has an immediate impact. “Immediate need” may be due to unplanned code hearings in a state, unexpected turns in the progress of adoption activities, or unique opportunities arising to adopt or update a code. These efforts will track code activity in real time and help prevent rollbacks.

**Long-Term**

BCAP will continue to support adoption of the model energy codes nationwide. As part of this goal, the BCAP staff will work with national and regional support groups to identify target states for model energy code adoption in 2012. At the request of the Department of Energy, BCAP will update their list of target states and make any necessary changes in strategy to ensure long-term adoption goals are met.

PROVIDE CODE STATUS INFORMATION

In order to keep the codes community up-to-date, BCAP will continue outreach activities. These will include the continuation of weekly code alert bulletins, online and social media posts as well as constant maintenance and updates to code status pages on OCEAN. These efforts will ensure that stakeholders nationwide have the materials and information they need, and can easily contact BCAP staff when they need additional support.

PARTICIPATE IN BUILDING CODE ACTIVITIES

As the Department of Energy’s Building Energy Code Program convenes events, BCAP will assist in event development as needed. This will include identifying and convening stakeholder attendees, agenda and presentation development, and highlighting specific adoption support success stories.
BCAP will form direct partnerships with state and regional organizations in order to advance the code. These partnerships will allow for cross-collaboration, the sharing of resources and information, and coordinated adoption support strategies. In order to increase effectiveness, BCAP will work to broaden local coalitions by identifying stakeholder organizations not actively pursuing code adoption in their state or region. In addition, BCAP will look to strengthen its existing relationships with partner organizations in order to develop a clear mission and actionable steps.
For local governments, the work doesn’t really start until after a new code is adopted

Effective implementation of the code by construction and inspection professionals is crucial to achieve promised energy savings, especially after a new code is adopted. In order to anticipate shortfalls, BCAP will continue to form partnerships with local building departments to review their enforcement processes and learn where code compliance resources should be targeted. To make sure new products and practices are working in the field, BCAP staff will continue to work with industry partners to build up-to-date technical know-how.

Instead of proposing additional steps for the already resource-strapped building departments, BCAP will explore ways to integrate enforcement of new energy-code requirements into existing inspection efforts. In doing so, BCAP will generate best practices that can be easily replicated by building departments nationwide and share these resources via OCEAN.
While many states have adopted more modern energy codes, it is often challenging for state and local governments to provide the requisite training, enforcement, and other support needed to fully implement them. Beginning in 2012, BCAP will work with up to six states to develop statewide “Compliance Coalitions” to assist in efforts to implement and enforce these newly adopted energy codes. Some of the services BCAP will provide include:

- Helping to identify potential coalition members and reaching out to them to gauge their interest in participation.
- Assistance organizing the coalition kick-off meetings, including developing an agenda and format and securing speakers.
- Working with the coalition for the duration of the project to help determine state needs, such as funding, training, and stakeholder outreach.

Because each state’s obligations, challenges, and opportunities are unique, BCAP will work with the state to provide other types of assistance as needed. However, BCAP’s overarching goal is for these Compliance Coalitions to be self-sustaining upon completion of the project in September 2012.

States were selected based on their likely contributions to the effort, energy savings potential, and the probability for long-term success.

**PARTICIPATING STATES**

- Colorado
- Nevada
- New Hampshire
- Pennsylvania
- Texas
Sometimes there is no substitute for BCAP’s on-location code adoption and implementation support

**Energy Code Ambassadors Program**

To boost the effectiveness of energy code enforcement among building departments, BCAP and the International Codes Council (ICC) continue to expand the Energy Code Ambassadors Program (ECAP). This program aims to create a set of energy code “mentors” in each state capable of training and supporting his or her peers on energy code enforcement issues. Within a state, the program provides 10-20 leading ICC members with a day of free training, code books and other resources, and reimbursement for certification exams.

Four states have piloted the Energy Code Ambassadors Program, and in 2012 BCAP will market the program and look for other opportunities to implement it. In addition, BCAP will release a research paper that will evaluate the program’s effectiveness and opportunities for improvement.

**Consumer Outreach**

Leveraging resources available from the 2011 Consumer Outreach Campaign, BCAP will kick off a new effort in 2012 to educate homeowners and homebuyers on the benefits of energy codes. Working with national, state, and local partners, BCAP and Consumers Union will distribute improved consumer materials to states and local jurisdictions. These materials will help with local advocacy efforts, both on the adoption and compliance fronts by engaging consumers as supporters of energy codes. In addition to leveraging BCAP’s existing networks and events to educate key audiences, outreach efforts in individual states may include articles in newsletters and newspapers, sharing links to the consumer materials on various websites, mailing activities, and earned media stories.
Delaware
Through collaboration with the Delaware Department of Natural Resources and Environmental Control, BCAP helped organize the Delaware Energy Code Coalition to promote increased collaboration among stakeholders to achieve full compliance with the 2009 IECC and beyond.

India
In partnership with the Alliance to Save Energy’s International Team, BCAP will help facilitate implementation of the Energy Conservation Building Code (ECBC) in the state of Tamil Nadu, and country-wide. This effort will include assisting in the development of a roadmap with recommendations for how to improve current practices. Guidelines provided for stakeholders will encourage collaboration. BCAP will also provide support in the development of a country-wide website that will act as a clearinghouse of information on all activities in the country by various organizations working to implement the ECBC in several states.

Georgia
Working with Atlanta-based Southface Energy Institute and the Southeast Energy Efficiency Alliance (SEEA), BCAP will complete a case study that analyzes two of Georgia’s leading code departments: Chatham County and its largest city, Savannah. By identifying best practices and areas for improvement for each participant, the study will provide a blueprint for improving code inspection in jurisdictions throughout Georgia and the Southeast.

International Code Council
BCAP staff will participate on the ICC’s Sustainability, Energy, and High Performance Building Code Action Committee (SEHPCAC) for the 2012 calendar year. This committee will recommend code changes and improvements for the 2013 IgCC and 2015 IECC, which will be submitted directly to the ICC at the end of the year.

BCAP’s Executive Director also holds a seat on the Governing Committee of the ICC’s Sustainability Membership Council, which provides a peer-to-peer forum on issues related to green construction.
financial information

bcap project revenue by year

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>$1,598,000</td>
</tr>
<tr>
<td>2010</td>
<td>$1,431,000</td>
</tr>
<tr>
<td>2011</td>
<td>$2,006,000</td>
</tr>
</tbody>
</table>

bcap project revenue by source

<table>
<thead>
<tr>
<th>Year</th>
<th>Source</th>
<th>Revenue</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Federal Gov.</td>
<td>$1,000,000</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td>Foundations</td>
<td>$310,000</td>
<td>22%</td>
</tr>
<tr>
<td></td>
<td>State Gov.</td>
<td>$121,000</td>
<td>8%</td>
</tr>
<tr>
<td>2011</td>
<td>Federal Gov.</td>
<td>$1,000,000</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>Foundations</td>
<td>$290,000</td>
<td>14%</td>
</tr>
<tr>
<td></td>
<td>State Gov.</td>
<td>$716,000</td>
<td>36%</td>
</tr>
</tbody>
</table>
funding sources

2010

ENERGY FOUNDATION  San Francisco, California
MARYLAND ENERGY ADMINISTRATION  Annapolis, Maryland
NATIONAL ASSOCIATION OF STATE ENERGY OFFICIALS  Alexandria, Virginia
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY  Albany, New York
UNITED STATES DEPARTMENT OF ENERGY  Washington, District of Columbia
ANONYMOUS

2011

ALABAMA DEPARTMENT OF ECONOMIC AND COMMUNITY AFFAIRS  Montgomery, Alabama
APPLE ENERGY GROUP  Austin, Texas
ENERGY FOUNDATION  San Francisco, California
ENERGY FUTURES GROUP  Hinesburg, Vermont
KENTUCKY DEPARTMENT OF HOUSING, BUILDINGS, AND CONSTRUCTION  Frankfort, Kentucky
MISSISSIPPI DEVELOPMENT AUTHORITY  Jackson, Mississippi
MISSOURI DEPARTMENT OF NATURAL RESOURCES  Jefferson City, Missouri
NATIONAL ASSOCIATION OF STATE ENERGY OFFICIALS  Alexandria, Virginia
NEBRASKA STATE OFFICE OF ENERGY  Lincoln, Nebraska
UNITED STATES DEPARTMENT OF ENERGY  Washington, District of Columbia
UNIVERSITY OF NEVADA BUSINESS ENVIRONMENTAL PROGRAM  Reno, Nevada
ANONYMOUS
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ALLIANCE TO SAVE ENERGY

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DEDICATED TO THE ADOPTION, IMPLEMENTATION, AND ADVANCEMENT OF BUILDING ENERGY CODES