



VQA Institute
Linking to Energy Efficiency
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Energy Outreach Colorado

- Statewide Fuel Fund
- Founded in 1989
- Will raise close to \$15 million in 2007-08
- Since 1989, raised over \$100 Million
- Built \$24 Million in reserves
- Programs: bill payment assistance, energy efficiency projects, energy education and advocacy

EOC Efficiency Program Overview

- **Nonprofit Energy Efficiency Program**
 - Nonprofit organizations/master meters
- **Energy Efficiency**
 - Energy Solution Grants (affordable housing)
 - Solar Program in 2008-09
 - Energy Saving Partners/State Energy Office
- **Energy Education**
 - Energy Hog Traveling Road Show
 - Resident education

EOC Program Overview (cont.)

- **Energy Saving Kits – client education**
- **Advocacy**
 - State Legislature
 - Public Utilities Commission
 - Utility Demand Side Management Programs
 - Community Collaborations
 - Youth Core's
 - Municipal projects

EOC Program Priorities

- **Collaboration** – EOC relies on lots of partnerships – public, private and nonprofit
- **Integration** of efficiency and conservation into all programs, including cash assistance
- **Focus on energy affordability** and speaking for the low-income energy consumer
- **Process** improvement internally
- **Outcomes and evaluation** – measuring success

Challenges

- New Energy Economy - few are thinking about its affect on low-income consumers
- EOC's capacity to be at all the tables where the discussion is occurring
- Bridging the gap between:
 - Energy industry – focus on bottom line
 - Environmentalists – focus on carbon reduction
 - Consumers – focus on paying bills
- Balance between short and long term solutions

Opportunities

- EOC's statewide reach
- EOC's Programs and staff
- Relationship with energy industry – utilities, oil and gas, mining, other corporate
- Relationship with communities – agencies, advocates, state and local, regulators
- EOC's role as the voice of the low-income energy consumer
- No shortage of need for EOC's programs

NEEP Beginnings

- Need for efficiency in nonprofit organizations
- Pilot conducted in 2006
- \$160,000 raised through various foundations
- Held workshops with Xcel Energy and GEO
- Projects: Boulder County Aids Project (BCAP), Gateway Battered Women's Shelter, Safehouse Denver, Urban

NEEP Achieved

- Dramatically reduced utility bills for organizations
- Improved health and safety for clients
- In transitional housing units, installed new appliances
- Nominated by Family Tree for “Community Partner of the Year”
- Actual energy savings being calculated in next few months – estimated savings of \$20.000 annually

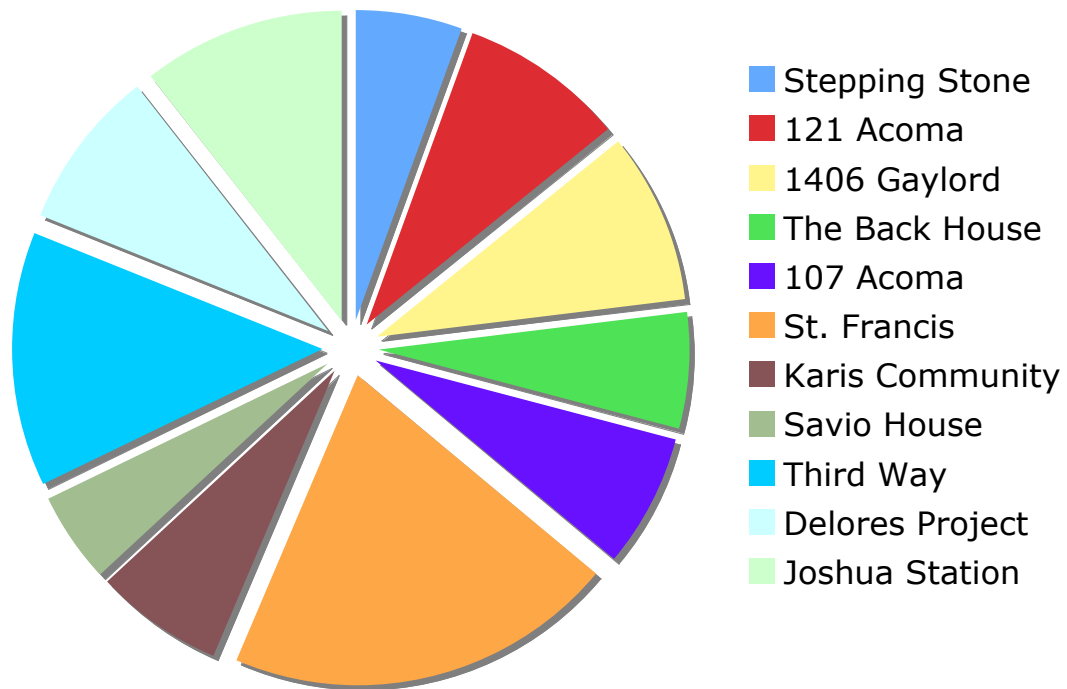
NEEP Today

- In 2007, EOC secured an \$886,000 contract with the City of Denver via new franchise agreement with Xcel Energy
- Targeted *Denver's Road Home* organizations – 24 hour shelter facilities
- Partnering with iCAST to do energy audits and evaluation
- Partnering with local weatherization agency to install measures

Current Process

- Graduate level class in the Building Science Program at the University of Colorado at Boulder via iCAST conducting energy audits
- Developed detailed DOE2 models of each buildings to generate a list of prioritized measures to be undertaken ranked in terms of their projected economic payback – goal 10 years or less
- Measures are further confirmed, revised, and added to by direct visits from iCAST staff and SunPower contractors

Currently Contracted NEEP 2007 Projects



Projected Energy Savings

- So far, \$407,072 invested in ECMs
- \$54,736 in annual energy savings (estimate)
- 7.4 years to payback investments
- GOALS being met!
- Many more projects being audited and scheduled

Sobriety House Example

- Residential treatment facility – 5 projects serving more than 100 clients
- The measures undertaken were:
 - External Doors were repaired
 - Occupancy sensors were installed for the lighting
 - Reflector panels were put behind radiators
 - Exit lights were replaced with LED exit lights
 - Light bulbs were replaced with CFLS
 - Closet in living room sealed and insulated
 - Fireplace seal was improved
 - Steam piping was wrapped
 - Freezers consolidated into three high efficiency freezers
 - Interior storm windows were replaced
 - Insulate individual attic, walls, gable end walls
 - High efficiency front loading washing machines and refrigerators
 - Blower door and caulking of ten spaces
 - Boiler is replaced with more efficient boiler with an Aquastat controller



Projected Benefits

- \$175,453 Invested
- 37,526 therms saved per year (estimate)
- 84,759 KWh saved per year (estimate)
- \$18,870 in annual savings to the organization
- 9.3 year payback
- Improved comfort and safety

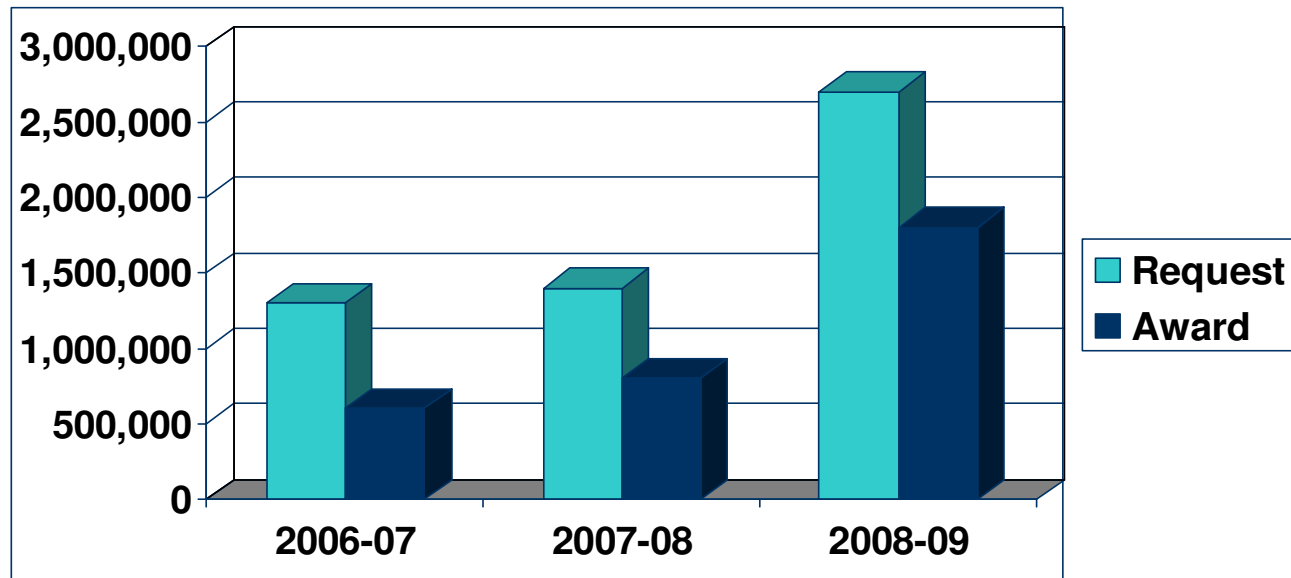
NEEP in the Future

- In 2008, goal is to contract for \$1 million with the City of Denver – open to all nonprofits
- Working with EOC partner agencies to help them reduce their utility bills
- Additional projects across the state – targeting utility DSM programs to provide funding
- Project in Greeley funded by EnCana Oil & Gas
- Currently working on identifying projects in Garfield County and Pueblo County – funding targeted

Energy Solutions Grants

- Program created in 1998 to help affordable housing providers make their units more energy efficient – fill in gap for multi-family housing where the state weatherization agency could not serve
- First partner, Habitat for Humanity
- Grown substantially in recent years

Demonstrated Need for Efficiency Funding



Energy Education Grants and Programs

- The Energy Hog Traveling Road Show reached 10,140 elementary aged students
- Home Energy Investigation Contest reached 445 student households (high school), and involved more than 500 peers, parents, and teachers in 6 communities

The Energy Hog



Education Opportunities

- Working with Habitat for Humanity to use curricula to train within the community and EOC's Autumn Awards across the state
- Integrating the Energy Kit program into the Energy Hog Traveling Road Show and Home Energy Investigation Contest
- Expanding the education program with a competitive education grant program

Program Overview – Energy Kits

- In 2006, GEO began a pilot program to distribute energy efficiency measures in Energy Kits to low-income families.
- EOC chosen to implement a Workshop Model utilizing our Charitable Agency Network
 - Ten EOC agencies selected to distribute 3,500 Energy Kits.

The Energy Kit

- Energy Kits for EOC's Workshop Model were provided by Resource Action Program (RAP).
- Each Energy Kit included:
 - (1) 13 watt CFL
 - (1) 23 watt CFL
 - (1) high efficiency showerhead
 - (1) water temperature thermometer
 - (1) refrigerator/freezer thermometer
 - Postage-paid mailer by which clients can order additional CFLs or showerheads.
 - Survey with incentive to win \$100
 - Quick Start Sticker reminders

EOC's Workshop Model

- STEP 1: Clients meet with staff member at EOC agency.
- Step 2: In this 'one-on-one' workshop, staff discuss budgeting, introduce the energy kit and explain how clients can save money.
- Step 3: Additional measures are either ordered for the client or handed out in the initial interview.
- Step 4: A survey with a self addressed envelope is sent home with the client.



Accomplishments of EOC's Kit Program

- Distributed 3,511 kits through 11 agencies in 10 counties throughout the state.
- Results from mail-in survey (15% response rate)
 - **73.8%** indicated installing all of the items in their kit
 - An additional **19.8%** indicated they installed 3 or more items from their kit
 - Over **91%** indicated they learned a lot about saving energy and money in the home.

Workshop Model Results (con't)

The following successes of the Workshop Model were also noted in APPRISE's July 2007 Process Evaluation report prepared for the Governor's Energy Office:

Workshop recipients were most likely to:

- Report that the program was very helpful in teaching them about energy use and ways to reduce energy cost.
- Report that their energy bills are lower after receipt of program services.
- Report that they made other changes in energy use behavior as a result of the program.

Benefits of EOC's Workshop Model

- Agency training
- Education focus of the program
- Receptiveness of the client
- EOC's web-based database
- Statewide agency locations
- Overwhelming enthusiasm, satisfaction and commitment from participating agencies.

Agency Response of Workshop Model

“Clients have been extremely grateful to receive the Energy Savings Kit... One client was hanging on every word of explanation. She was so excited that she could save money on her utility bill so that she would not be in a situation of needing help again.”

~ Jeffco Action Center

“On a personal level, the Energy Savings Kits are an extra tool I have to give clients when they come to me at a time of crisis.”

~ La Puente Home

Opportunities

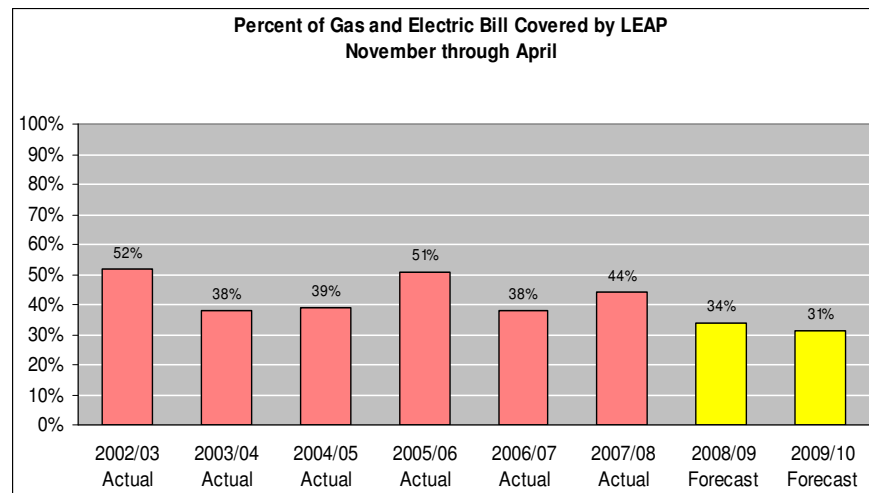
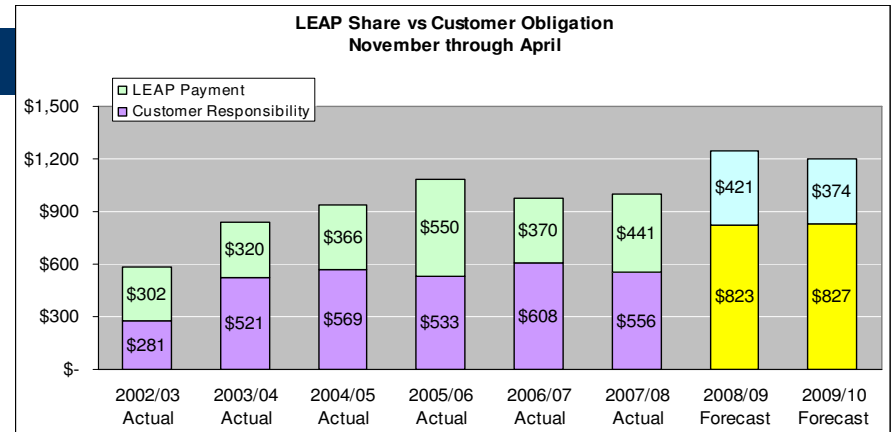
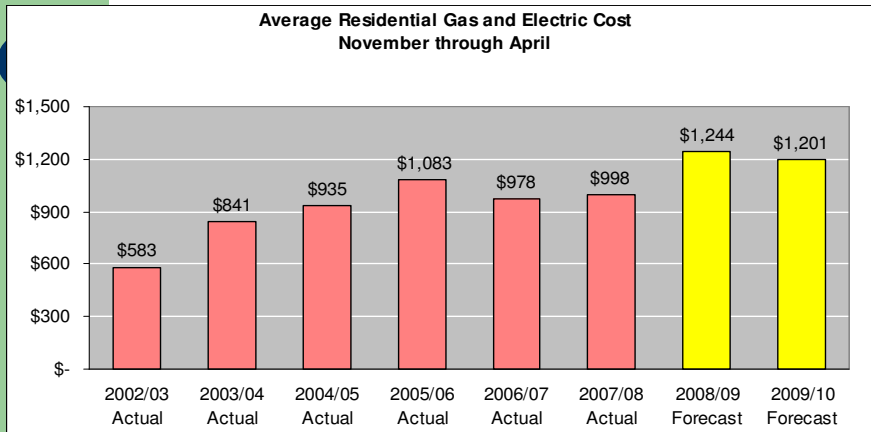
- Partnering with GEO's Energy \$aving Partners program and utility company's DSM programs
- Expanding the program to include more, if not all, the agencies in our network.
- Matching clients with other weatherization resources.
- Utilizing our partnerships with utility companies to collect client and evaluation data.
- Integrating Energy Kits into school programs and through Energy Solutions Grant recipients.



Questions?



Residential Combined Gas and Electric Bills



EOC Fundraising

