ENERGY UPGRADE CALIFORNIA in Los Angeles County

THE FLEX PATH PROGRAM

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The Challenge in California

The Statewide Goals

Energy consumption in existing homes is to be reduced by 20% by 2015 and... **40% by 2020** through universal demand for highly efficient homes and products.*

*California Long Term Energy Efficiency Strategic Plan (CPUC)
A Real Challenge!

- Of the 11.5 million residential units served by investor owned utilities (IOUs), about 5 million meet whole-house upgrade program eligibility requirements.
- Requires more than 5,000 contractors statewide, averaging 10 projects a month for 8 years...Lots of new jobs.
- And many more for the other 6.5 million homes.
Overview: Basic and Advanced Upgrade Packages

**Basic Path Upgrade**
(Prescriptive Bundle of Measures)
- Air sealing
- Attic insulation
- HVAC duct sealing
- Insulate water heater pipes
- Thermostatic shower valve
- Low-flow shower head
- Combustion safety test and installation of a CO detector

**Advanced Path Upgrade**
(Modeled Approach)
ALL Basic Measures PLUS any of the following:
- Wall insulation
- Floor insulation
- Heating and Cooling equipment
- High performance dual-pane windows
- Domestic Hot Water Heaters
- and more.....
The Issue of Scale

Need: A New Basic Path

- DOE investment in a strong sustainable infrastructure
- Driving homeowners to IOU programs that are still evolving
- The failed Basic Path was to provide most of the EUC projects
- Advanced Path is a modeled, whole house approach...not for everyone
- Result: A program that most ratepayers cannot afford

Moving from $2 CFLs to a $15,000 whole house upgrade is too big a step for most homeowners!
One Solution: The Flex Path Pilot Program

A New Option in Los Angeles County

• Designed to replace the Basic Path option
• Launched January 16, 2012
• Extensive menu of building shell and mechanical improvement measures with prescriptive point values
  - Includes all of Basic and Advanced Path measures
• $1,500 homeowner incentive
• Administered by Los Angeles County, including application processing, QA/QC and incentive processing
One Solution: The Flex Path Pilot Program

Flex Path Requirements

- Two or more Qualifying Measures totaling 100+ points
- Pre-retrofit conditions and post-retrofit conditions apply
- Test-in/ Test-out for some measures/ Combustion Safety Test
- Single family detached home in LA County
- EUC Participating Contractor

NOT Required...

- No EnergyPro Modeling
- No Job Reporting Template (JRT): Uses a simple online Application Form and Project Completion Form
- No Pre-Installation inspections: Follows Home Performance with ENERGY STAR post-installation inspection guidelines
Program Successes

- Met goal of 500 projects in **four months**
- Surpassed LA County Advanced and Basic Path applications
- 46 contractors active in Flex Path
- Projects focused on building shell and mechanical upgrades that lead to a whole house energy retrofit
- Penetration of middle-income homeowner market = volume
### Breakdown of EUC Projects in LA County
**Thru July 1, 2012**

<table>
<thead>
<tr>
<th>Retrofit Project Type</th>
<th>Percent of Total LA County Projects</th>
<th>Number of LA County Projects</th>
<th>Average Savings</th>
<th>Average Cost</th>
<th>Rebate Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Path</td>
<td>42%</td>
<td>551</td>
<td>27%</td>
<td>$12,882</td>
<td>$5,110</td>
</tr>
<tr>
<td>Flex Path</td>
<td>57%</td>
<td>744</td>
<td>16%</td>
<td>$5,173</td>
<td>$1,500</td>
</tr>
<tr>
<td>Basic Path</td>
<td>1%</td>
<td>17</td>
<td>10%</td>
<td>$4,198</td>
<td>$2,000</td>
</tr>
</tbody>
</table>
Frequency of Installed Measures
Through July 6, 2012

- Duct insulation & sealing OR Duct replacement (95 points)
- ENERGY STAR or Energy Aware programmable thermostat (5 points)
- Attic insulation & sealing (45 points)
- Pipe wrap for domestic hot water heating (5 points)
- Replace existing furnace with new ENERGY STAR furnace (90 points)
- Replace existing central AC with new central AC (90 points)
- Crawlspace insulation (55 points)
- Low-flow showerhead with thermostatic shut-off valve & faucet aerators (5 points)
- ENERGY STAR lighting fixtures (5 points)
- Wall insulation (90 points)
- Attic radiant barrier (50 points)
- Other
A Stronger Future for EUC

- **Continue Advanced Path program** for homes where a full assessment and energy modeling approach is preferred
- **Add a flexible, simpler approach** that targets middle-income homeowners and engages more contractors
  - Increased homeowner participation and project volume
  - **Rapid expansion of the home performance industry, creating more jobs**
  - **Much faster progress toward State goals.**