



PPL Electric Utilities

Stakeholder Meeting Low-Income Customer Sector

PPL Electric Utilities

February 9, 2012

Harrisburg, PA

PPL Electric Utilities Low-Income Forum



- Welcome and introductions.
- Safety first.
- Thank you for joining us.

Meeting Objectives



- Provide overview of PPL Electric Utilities current Act 129 programs.
- Provide overview of PPL Electric Utilities current Act 129 programs that serve **low-income customers**.
- Obtain low-income service providers input on measures, programs, and low-income customer sector targets for the next Energy Efficiency and Conservation (EE&C) plan.
- Discuss next steps.

Act 129 Requirements for Addressing the Low-Income Sector



“The Plan shall include specific energy efficiency measures for households at or below 150% of the federal poverty income guidelines.

The number of measures shall be proportionate to those households’ share of the total energy usage in the service territory.

The EDC shall coordinate measures under this clause with other programs administered by the commission or another federal or state agency.” ¹

1. HB No. 2200 Session 2008

PPL Electric Utilities Focus on Low-Income Customers



- There are 102 measures available to the low-income customer sector, comprising 50% of the total measures offered. That percentage significantly exceeds the requirement of 8.6%.
- The E-PowerWise program is solely for low-income customers.
- Low-income WRAP (LI WRAP) increases PPL Electric Utilities' existing Winter Relief Assistance Program (WRAP).
- Low-income customers are eligible for all residential programs.

Relative to Low-Income Sector



- LI WRAP pays 100% of the measures installed.
- Low-income customer sector program budget is \$36.5 million or 15% of the total EE&C Plan.
- PPL Electric Utilities' Plan expects approximately 19,755 MWh/yr saved or 1.4% of total savings target.
- Program cost at completion is estimated to be between \$1.50 and \$1.70 kWh/yr.
- Compares to \$0.18 for the entire EE&C plan and \$0.13 for the residential sector.

E-PowerWise Program



- Energy education and self installed energy efficiency measures provided at no cost to low-income customers.
- Administered through Community Based Organizations.
- Customers attend an education session or receive one-to-one coaching about energy efficiency.
- Customers receive a take-home kit of energy efficiency measures.

E-PowerWise Program



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| Measure | | kWh/yr |
|-------------------------|-------------------------|------------|
| Energy Education | Classroom or one-to-one | 146 |
| Kitchen faucet aerator | 1 | 42 |
| Bathroom faucet aerator | 1 | 42 |
| Showerhead | 1 | 94 |
| 14 W CFL | 1 | 42 |
| 19 W CFL | 1 | 52 |
| Nightlight | 1 | 16 |
| TOTAL | | 434 |

E-PowerWise Program Network



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| Agency Name | City |
|---|-----------------|
| Casa Guadalupe Center | Allentown, PA |
| CCCS of Northeastern Pennsylvania | Pittston, PA |
| Central Susquehanna | Shamokin, PA |
| Child Development, Inc. | Minersville, PA |
| Columbia Child Development - HeadStart | Bloomsburg, PA |
| Community Action Commission | Enola, PA |
| Hispanic Center of Lehigh Valley | Bethlehem, PA |
| Juniata County Head Start - Tuscarora Intermediate Unit #11 | Mifflintown, PA |
| Pocono Alliance | Stroudsburg, PA |
| Schuylkill Community Action | Pottsville, PA |
| SCOLA Volunteers for Literacy | Scranton, PA |
| Scranton/Lackawanna Human Development Agency | Scranton, PA |
| The Literacy Center | Allentown, PA |
| Union-Snyder Community Action Agency | Selinsgrove, PA |

E-PowerWise Program Results



- Program budget -- \$680,000.
- EE&C Plan -- 1,080 MWh/yr.
- As of December 2011, expended \$422K and achieved 2,502 MWh/yr in savings (232% of EE&C Plan goal).
- \$0.17 per kWh/yr saved.

E-PowerWise Program Results con't



- Conducting a pilot program to mail kits directly to qualified customers.
- Will exhaust total budget by the end of 2012 (end plan at about 4,000 MWh/yr).
- 82% of recipients surveyed were 'very satisfied' with the program.

Low-income WRAP



- Act 129 funds approximately doubled existing LIURP WRAP.
- Program is managed in conjunction with contractors that perform WRAP work.
- LI WRAP is categorized into three job types.
 - Base Load - 1,248 kWh/yr
 - Low Cost - 1,619 kWh/yr
 - Full Cost - 2,414 kWh/yr

Note: Savings are determined by bill analysis.

Baseload WRAP



Baseload WRAP – Usually refers to “lighting and appliances,” offered to customers who have the potential to receive and benefit from energy saving measures. Measures include:

- Energy Education
- Installation of Compact Fluorescent Lights (CFLs)
- Refrigerator replacement
- Air Conditioner replacement
- Dehumidifier replacement
- Waterbed replacement with a foam mattress
- Changing or cleaning of heating/cooling filters
- Dryer venting (electric dryer)
- Power Strip/Smart Plug

Low Cost WRAP



For customers that have an electric water heater and there is the potential to install water-heating measures. Measures include:

- Energy education and baseload measures
- The installation of a heat pump water heater or water heater replacement (if HPWH is not suitable)
- The installation of a Gravity Film Exchange (GFX)
- Repair of water leaks
- Installation of kitchen and bathroom aerators
- Installation of an energy-efficient showerhead
- Water pipe insulation

Full Cost WRAP



For customers with electric heat and use electric heat as the primary heating source or customers that have high seasonal (heating/cooling) use that can save energy from the installation of seasonal measures.

Measures include:

- Energy Education and Baseload Measures
- Low cost measures, if the customer has an electric water heater
- Attic, wall, and floor insulation
- Blower door testing and associated air sealing
- Sealing of attic bypasses
- Attic vents and hatches
- Crawl space and header insulation
- Electric heating equipment repair and replacement
- Central cooling system repair and replacement
- Duct insulation and repair
- Caulking and weather-stripping

LI WRAP Results



- EE&C Plan WRAP budget is \$28.6 million to achieve 18,695 MWh/yr in savings.
- As of December 2011, expended \$17.3 million and achieved 10,092 MWh/yr in savings (54% of goal).
- Cost – currently \$1.71 per kWh saved.
- The EE&C Plan is being revised to increase savings within budget.

LI WRAP Results con't



- Inspection of jobs and uploads into PPL Electric Utilities tracking system are lagging but when caught up, will reduce the cost per kWh/yr to about \$1.50. This is below budget.
- Planning to exhaust total budget and achieve the savings goal by early 2013.

Compliance Realities of Act 129



- Limited budget.
- Programs and measures must be 'equitable' and 'meaningful.'
- Portfolio must be cost effective (benefit to cost >1).
- Average cost per reported kWh saved is about \$0.16.

Anticipated Parameters of Next Act 129 EE&C Plan

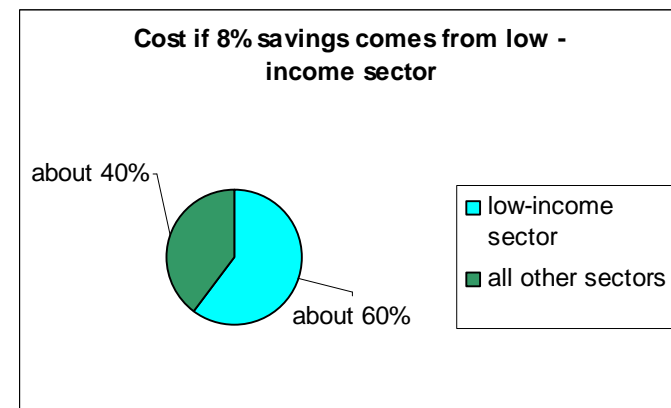
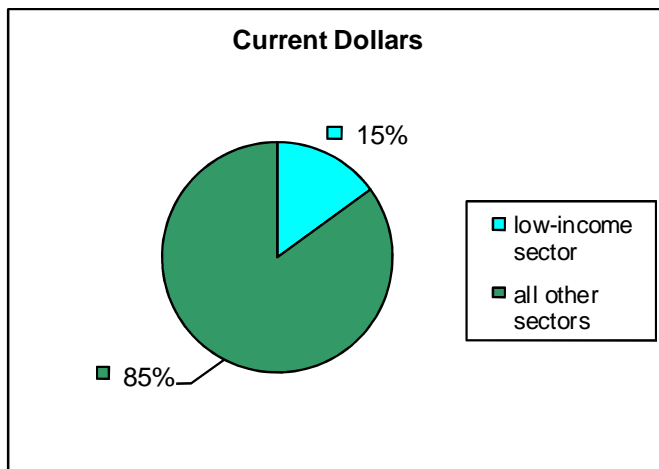
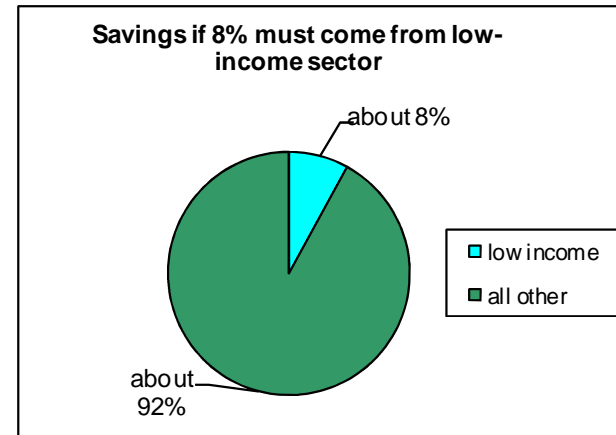
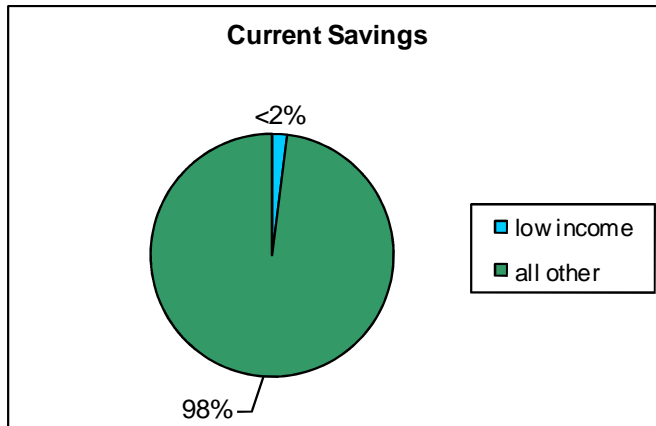


- Budget is not increased above current levels.
- Total energy savings targets TBD.
- Programs and measures must be 'equitable' and 'meaningful.'
- 10% of total savings must come from institutional customers.
- Portfolio must be cost effective (benefit to cost >1).
- Cost per kWh saved will increase.

Funding Challenges



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Questions?

