Collecting and Using Data To Improve the Program
May 20, 2011
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Residential Overview

• Energize Phoenix Corridor
  – 14,970 Residential Housing Units
• Upgrade 2000 residential units
• Create Green Jobs
• Provide Education, Outreach, Marketing
• Establish Sustained Investment
• Transform Consumer Behavior
  – Energy Dashboard Devices (T.E.D.)
Partnering & Leveraging

• City of Phoenix
  – Public Works
  – Neighborhood Services
  – Community Economic Development

• Arizona State University

• Arizona Public Service
Utility Partnership

- Cultivated partnership before grant application process
- Buy-in from Utility during the crafting of grant application
- Coordinated with Utility throughout program development
  - Integrated Utility rebate program process
  - Incorporated data transfer to University
Data Collection Process

• Contractor submits to Utility:
  – HPwES Audit (CSG Software)
  – Consent to Release APS Customer Information (completed by Program Participant)

• Contractor submits to City:
  – Historic Preservation approvals (if applicable)
  – Contractor Total Job Hours Worked Form
  – Waste Management Plan and Report Form
Data Collection Process

• Program Participant completes the following and either Program Participant or Contractor submits to City staff:
  – Residential Rebate Match Form (Application)
  – W-9 Cover Sheet and Form
  – *Optional* ASU Survey
  – Conflict of Interest Disclosure
  – Marketing Survey
Data Collection Process

• Project is completed and Utility makes documentation available to City staff

• City staff consolidates documentation, verifies accuracy, and inputs data

• NSD Project Manager reports data as needed for evaluation component
University Partnership

- Energy Analysis of Data
- ASU will conduct a parallel, independent evaluation of property and corridor-level energy savings
- ASU Summative Impact Report
  - Compile monitored and observed data
  - Annual and Final Reports
- Assist with DOE Quarterly Program Reporting
Data Transfer Process

• Consent to Release APS Customer Information (Data Waiver)
• APS will provide customer aggregate energy data for:
  – 12 month’s billing history prior to energy efficiency upgrades every 30 days
  – 36 months of billing history after completion of improvement project within 30 days of the end of each quarter
• Data is derived from participants who complete energy assessments as well as energy upgrades
Residential Audit Data

• Adaptable and flexible Utility program modifications
  – Customized software for DOE reporting requirements

• APS Data Sample
  – Property Information
    • Address, Construction Type, Windows, Insulation, Equipment Condition & Age, Efficiency
  – Recommended Measures
    • Equipment
    • Insulation/Repair Services
    • Modeled/Estimated Savings (kwh/yr)
    • Project Cost/Project Savings ($/yr)
Lessons Learned

• Scope of Work: Roles & Responsibilities to Memorandum of Agreement
  – City of Phoenix and Utility
  – Arizona State University and Utility

• Integrating City and Utility programs
  – Organizational Cultures

• Determining what, when and how much data needs to be collected
Questions

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