



Collecting and Using Data To Improve the Program

May 20, 2011

By: Dimitrios Laloudakis, Program Director

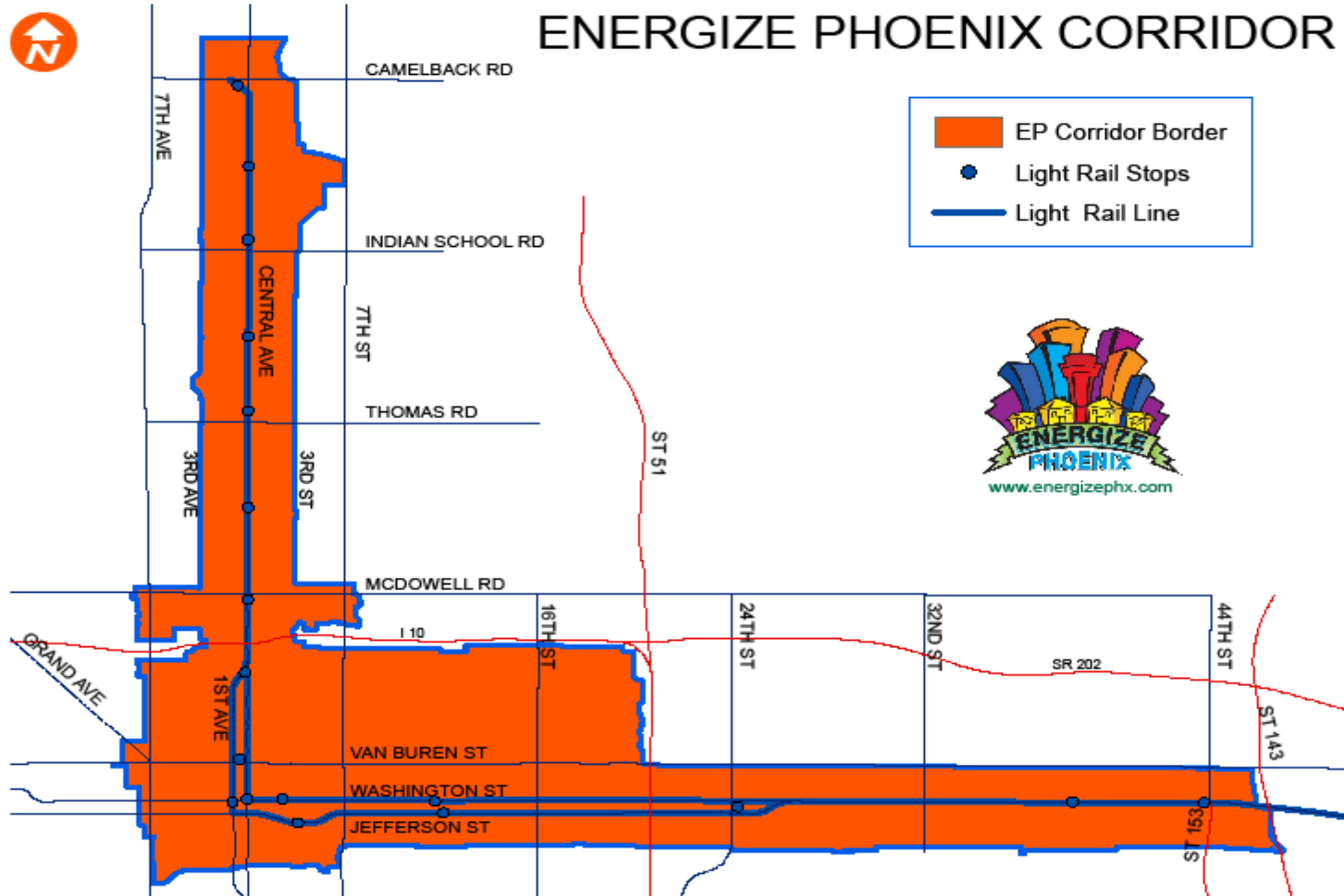


City of Phoenix

ASU GLOBAL INSTITUTE
of SUSTAINABILITY
ARIZONA STATE UNIVERSITY



Energize Phoenix Corridor



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



Website: energizephx.com

Email: energizephx@phoenix.gov

Hotline: (602) 495-5275