Sustainable Cities

Sept 10, 2013
Why Energy Efficiency?

• Most cost effective energy “resource”

• Proven and viable

• Has multiple returns - financial and environmental

• Effective method to manage energy cost risk

• Utility Incentives
Cities’ Energy Challenges & Opportunities

- Pressure to be a “Green”
- Rising energy costs/risk management
- Lack of knowledge on what energy improvements will do and where to start
- Lack of available dollars for capital investments
- Opportunities to showcase to business community, residents and employees
Solutions for Business Program

• Objective
  – To promote the installation of energy efficient measures in non-residential facilities

• Funding Source
  – The Solutions for Business Program is funded by APS customers and approved by the Arizona Corporation Commission.
ENERGY STAR® PARTNER

• APS is a partner of the ENERGY STAR® program

• ENERGY STAR qualifying equipment adds value to your customer’s energy-savings goals
Program Basics

• Lighting

• Motors

• Refrigeration

• HVAC

• Anything with proven energy savings
Program Success

- Rebates paid to customers since 2006: $80.9 million
- Lifetime customer bill savings: more than $1 Billion
- Environmental benefits
  - Water: Saved 3 billion gallons, equivalent to usage of nearly 23,088 Arizona homes
  - CO$_2$ emissions: Eliminated 5.5 million tons, equivalent to taking 817,805 cars off the roads
Solutions for Business and Cities

- **Before ARRA**
  - No in house resource for applications
  - Purchasing reqs
  - Lack of program knowledge
  - Lack of CM/Council buy-in of EE
  - Incentive black hole
  - Borrowing restrictions

- **During ARRA**
  - Contractor used as resource
  - Contractor purchased
  - Program familiarity
  - Buy in
  - Performance contracting/NBAZ lease loans
After ARRA ... ?

What have you learned?

• Worth the paperwork
• Have contractor do it
• Your utility will assist
Where Should I Look for Opportunities?

- Water/wastewater
- LED Traffic Signals
- T-12 lamps
- Motors with VSD opportunities
Upcoming 2013 Solutions for Business Technical Training Classes

- Energy Studies/Calculations       Sept 26
- BOMA Benchmarking                 Sept 27
- Advance Lighting Controls         Oct 17
- Energy Management Systems         Nov 20
- Certified Energy Manager          Sept (full)

2014 classes to include: Window Science/Fenestration, Whole Building, Lighting, Motors, Compressed Air Systems, Selling Energy Efficiency, Energy Simulation 101 & 201, Pumps
Program Contacts

- **Project Incentives Express Solutions**
  - aps.solutionsforbusiness@kema.com
  - 866 277 5605

- **Energy Information Services**
  - aps.solutionsforbusiness@automatedenergy.com
  - 866 421 1234 (option 3)

- **Peak Solutions**
  - aps.com/peaksolutions
  - 877 797 7443

- **Pump Test & Repair**
  - Noah Mundt
  - 602 457 5003

- **Energy Efficiency Financing**
  - Ward Hickey 602 212 6459
  - ward.hickey@nbarizona.com