

# 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

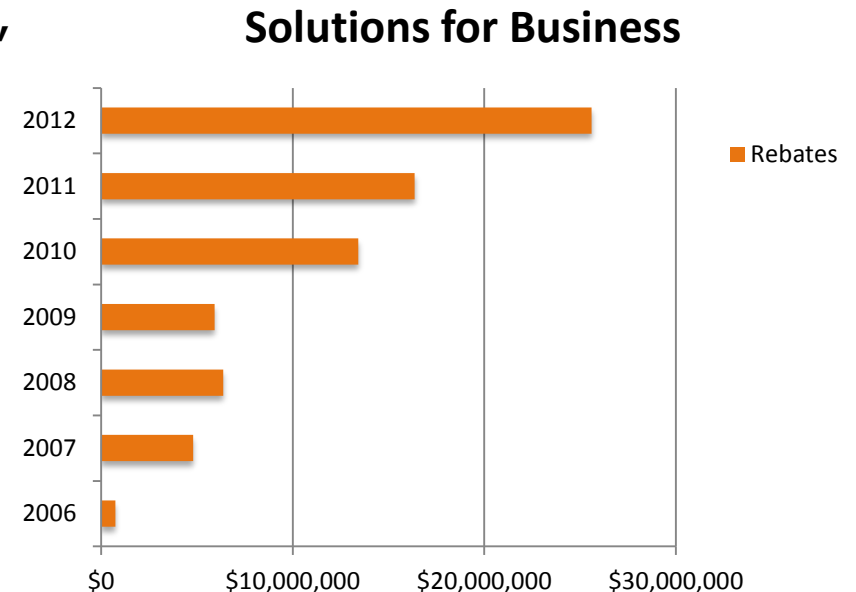


# Program Basics

- 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<sub>2</sub> 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



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# Program Contacts

## Project Incentives Express Solutions

- [aps.solutionsforbusiness@kema.com](mailto:aps.solutionsforbusiness@kema.com)
- 866 277 5605

## Energy Information Services

- [aps.solutionsforbusiness@automatedenergy.com](mailto:aps.solutionsforbusiness@automatedenergy.com)
- 866 421 1234 (option 3)

## Peak Solutions

- [aps.com/peaksolutions](http://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](mailto:ward.hickey@nbarizona.com)