

The Arizona Experience: 2012 IECC



Water & Power



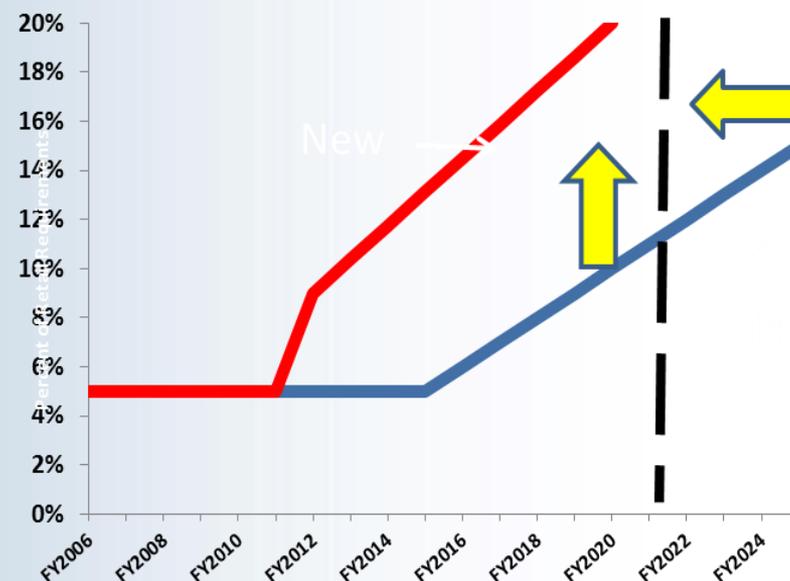




Rick Delaney July 2012

EE Program Objectives: Updated Sustainable Portfolio Plan

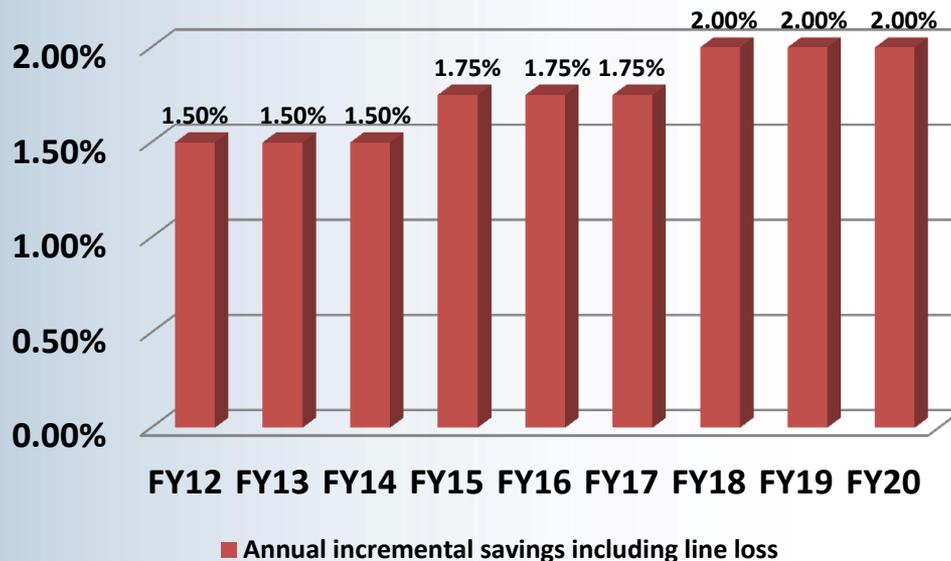
- Goal is to meet 20% of retail requirements with sustainable resources by 2020 -Renewable energy, hydro power, conservation, efficiency, pricing measures, codes and standards, behavioral programs, and renewable energy credits
- Energy Efficiency – ‘goal within a goal’
- Building Energy Codes Adoptions
- 2012 IECC



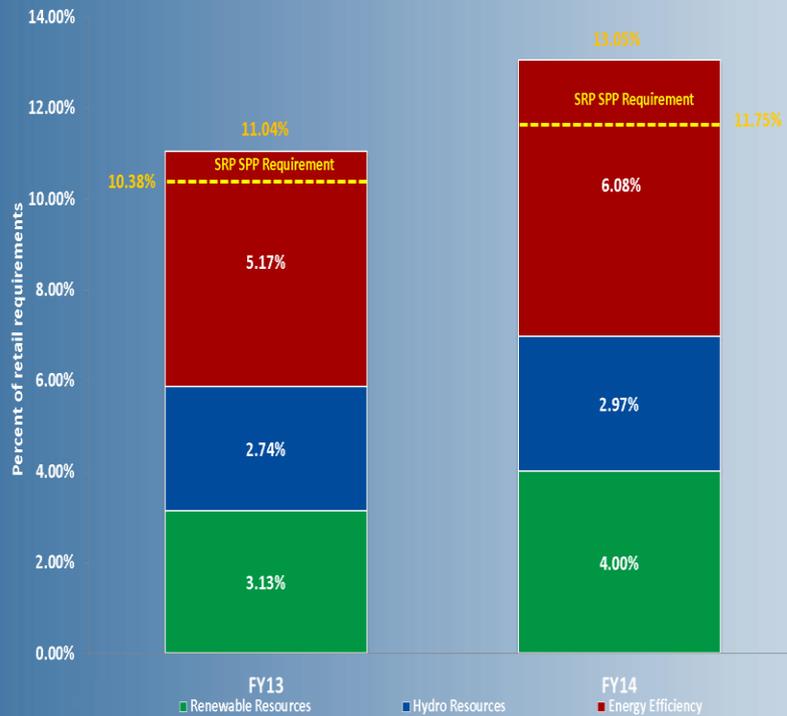
Energy Efficiency Targets

- SRP's annual incremental objective grows over next decade
- All energy efficiency and pricing initiatives
- Include 50% credit for codes and standards
- Energy conservation and behavioral programs

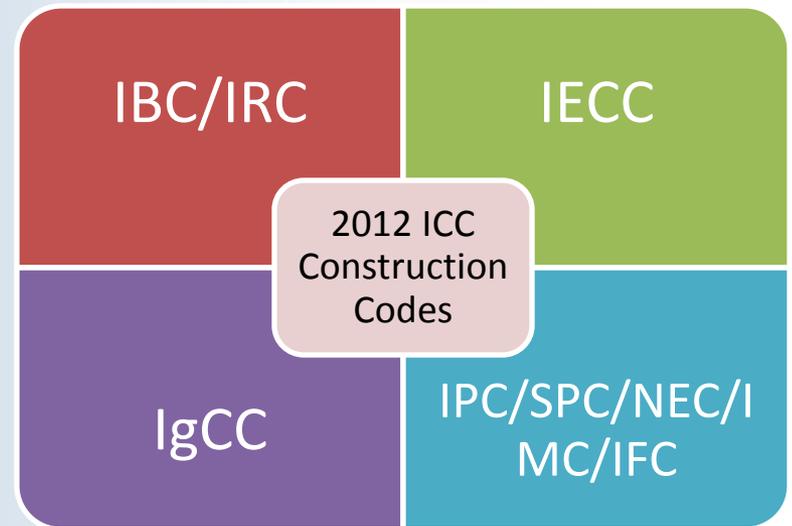
Percentage of Annual Retail Requirements



FY13 Actuals & FY14 Projected



Opportunities for Energy Savings Within all of the 2012 Codes...



Savings Attribution

- SRP Board voted to allow up to 50% of the code-related savings to be captured and included in our Sustainable Portfolio Plan
 - SRP utilizes a checklist for each jurisdiction that tracks interaction prior to adoption.
 - SRP applies a discount factor to approximate the ramp up period between the new code's effective date and full implementation/compliance.

Code Adoption Process in a Home Rule State

Building Energy Codes are one of the most cost effective means to improve energy efficiency

Raise awareness of the building energy codes within the existing structure

IECC– International Energy Conservation Code

IgCC- International Green Construction Code

Become their resource for information already available online

ICC's Code adoption resources

DOE's Building Technologies Program State Specific Savings

Educating building officials, advisory board members, elected officials

Architects, Contractors and Sub-Contractors

one by one by one.....



Join us in Scottsdale for the
 20th Annual AZBO Fall Education Institute
 October 28 – November 1, 2013
 Scottsdale Cottonwoods Resort
 6160 N. Scottsdale Rd., Scottsdale AZ 85253
 (480) 389-3447
www.scottsdalecottonwoods.com

Coordinate with your local ICC Code Officials

Tracts	Monday October 28	Tuesday October 29	Wednesday October 30	Thursday October 31	Friday November 1
Code Updates	Session 101 2012 IBC Overview	Session 201 2012 IBC Means of Egress	Session 301 2012 IBC Building Areas, Fire Areas, and Mixed Occupancies	Session 401 2012 IRC Overview	Session 501 ADA Update
General Interest	Session 102/202 The Complete Permit Technician <i>Two Day class</i>		Session 302 Code Enforcement Basics	Session 402 Hoarding Issues & Code Enforcement	Session 502 Improving the Reputation of your Building Department
Electrical Field Inspection	Session 103/203 2012 IRC Electrical Inspections <i>Two Day class</i>		Session 303 Grounding and Bonding 2011 NEC	Session 403/503 Commercial Electrical Inspections <i>Two Day class</i>	
Engineering Principles	Session 104 2012 IRC Structural Changes	Session 204 Post Tension Foundation Design and Construction	Session 304 Manufactured Housing Installers Training	Session 404 ASHRAE 90.1	Session 504 IPMC and Identifying Dangerous Structures
Energy Conservation and Green Building	Session 105 Sustainable Concrete Masonry Design	Session 205 HERS/RESNET/IECC Alternative Compliance Paths	Session 305 Energy Efficient Lighting Design and Science – IECC 2012 Compliance	Session 405 IgCC/IECC/Best Practices	Session 505A Manual J - 101 ½ Day class Session 505B PV Inspections - 101 ½ Day Class
Commercial Inspection	Session 106 Street Smart – Personal Protection	Session 206 Special Inspection of Masonry Construction	Session 306 2012 IRC Plumbing, Mechanical, and Fuel Gas Update	Session 406 2012 International Mechanical Code	Session 506 2012 International Plumbing Code

ANNOUNCEMENTS

ATTENTION... CLASS FEES WILL BE INCREASING TO \$120 FOR THE SPRING 2014 INSTITUTE. TAKE ADVANTAGE OF MEMBERSHIP DISCOUNTS BY REGISTERING WITH YOUR LOCAL CHAPTER.



BE SURE TO STOP BY THE ICC BOOKSTORE OPEN DAILY FROM 7:00 AM – 5:00 PM FOR DISCOUNTED CODE BOOKS AND OTHER MATERIALS

VISIT OUR SPONSOR & VENDOR BOOTHS FOR LOTS OF INFORMATION AND GOODIES.

AZICC CENTRAL CHAPTER WILL HOST A DINNER AND COMEDY SHOW OCTOBER 30 AT 5:30 PM. PLEASE JOIN US FOR DINNER AS WE LISTEN TO MAYOR SCOTT P. LEMARR OF TOWN OF PARADISE VALLEY, AND VICE MAYOR SUZANNE KLAPP, OF CITY OF SCOTTSDALE. ENTERTAINMENT PROVIDED BY COMEDIAN BRIAN KOHATSU. FOR MORE INFORMATION, PLEASE SEE PAGE 9.

VISIT OUR WEBSITE WWW.AZBO.US FOR MORE INFO ON HOW AZBO IS GOING GREEN

LET US HELP YOU IN CASE OF AN EMERGENCY...PLEASE PROVIDE US WITH EMERGENCY CONTACT INFORMATION LISTED ON THE REGISTRATION PAGE.

Sponsor Training





Support your local code organizations such as ICC State and Local Chapters – We are Agua Azul Sponsors Of AZBO's Education Committee

Support with \$\$\$

**Support with your expertise And knowledge of :
Marketing
Energy Use Data**

SRP created the 2012 IECC Pocket Pal reference guide to the mandatory measures and released the master to AZBO

2012 IECC Compliance Paths

Session 205

IECC / HERS / RESNET

*Understanding the Science, and
The alternative paths available.*

(Identify issues and provide options)



*This is not just theoretical
code development!*

Training that mixes the end users creates opportunities to talk about different methods of implementation that work in the real world.

Building Officials
Inspectors
Contractors
Sub-contractors
Architects
Plans Examiners
Engineers

**You need to have people
That understand the codes,
And how they work in practice.**



2012 IECC -Stakeholder's Testing Protocol Summit

October 29, 2012 – Meeting will start promptly at 1:00 pm

PERA Club – 1 E. Continental Drive, Tempe, AZ 85281
(Desert View room - Wrap up with treats at 3:00 pm)

Sharon Bonesteel – SRP Moderator – 602-236-4498

RSVP to Moderator by 10-22-12 at:

Sharon.Bonesteel@SRPnet.com

GOAL: Develop a Testing Protocol that can be utilized throughout Arizona, providing consistency for the home builders, ease of management for the jurisdictions, and IECC 2012 compliance.

Provide Servant Leadership

Along the path you will find that your position in the community allows you to pull together Stakeholders, moderate their problem solving, And help them reach a mutually beneficial conclusion.

For the best customer service become engaged in the construction community.

SRP is Tracking the Savings Potential

- **SRP monitors new construction and new accounts on our system in the jurisdictions where we have affected change.**
- **The new accounts are segregated by residential construction type and commercial NAICS code into the 16 categories that PNNL uses to study the impact of the newer versions of the IECC.**
- **SRP then develops the potential savings of the new projects with gross savings values that our third-party verifier developed for us in relation to the 16 PNNL categories. At this time that information is proprietary.**

Summary

1. Be Real

- Anyone evaluating your program should have no doubt that your company's actions moved the market.

2. Be Realistic

- There is a delay time between when codes are adopted and when the structures are actually built.
- Energy savings numbers are related to the quality of construction.

3. Keep Records

- Clearly record a baseline assumption and document your efforts.

4. Practice Servant Leadership

- Serve your customers by helping them resolve issues and work together to implement building energy codes.

1. Be Real

2. Be Realistic

3. Keep Records

4. Practice Servant Leadership



Codes and Standards Initiative
Salt River Project

Phoenix, Arizona

Sharon Bonesteel, AIA, CBO, CP



Practice
Resource
Stewardship

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