ENERGY EFFICIENCY IN ARIZONA

MAKING CHANGES THOUGH NEW CONSTRUCTION AND ENERGY STAR
18 Years with SRP

Bachelor in Business & Psychology from A.S.U.

HERS Rater and Certified Energy Manager

Background
- Senior Program Mgr - EE
- 12 years as Builder Account Manager with SRP

Rebecca Smout
SRP Program Manager
IT STARTED WITH A NEED FOR WATER...

- 1865 – 1890’s – Early Settlement in the Salt River Valley
June 17, 1902: National Reclamation Act

SRP today - over 1,000,000 customers
SRP’S SUSTAINABLE PORTFOLIO

20% of Retail Sales by 2020 from Sustainable Sources & Demand Reduction Programs

- Hydro
- Wind
- Landfill Gas
- Solar
- Biomass
- Geothermal

Fiscal Year 2017 Year End Results

- Energy Efficiency 56%
- Hydro 15%
- Renewable 24%
- Banked Credits 5%
ENERGY EFFICIENCY OF THE PAST

Block Homes
○ Evaporative Cooling

Wood Framed Homes
○ Poorly Insulated
ENERGY EFFICIENT FEATURES

In the 90’s change was upon us…

DRY LAND IS A MYTH!
ENERGY EFFICIENT FEATURES

In the early 2000’s some major changes...

- Testing and HERS ratings
- 10% better than code
- Low-E Windows w/lower U-Values
- Ducts sealed with mastic
- 12 SEER minimum
- Grade1 Installed Insulation
  - No Gaps/Voids/Compressions
From 2008 to 2012 it got serious! The EPA's ENERGY STAR program began to focus on sealing the home—conditioned space sealed off from unconditioned space... ES Version 2.5 to 3.0

Mechanical ventilation!

Right sizing the HVAC units with Manual J

At least 20% better than code

14 SEER minimum

Spray Foam...
70% of new homes in our territory participate in the SRP ENERGY STAR Homes program.

- Spray Foam and ducts in conditioned space
- * 16 SEER (*not required) but many builders have moved to this level to improve their HERS score
- * Instant Gas Water Heaters
- HERS range 65 to 50!
- Wi-Fi Thermostats
- * Indoor Air Plus
- And more…

[Image: Energy Star certified new homes: superior energy efficiency. An energy star certified new home delivers energy savings up to 30% compared to typical new homes. Learn more at energystar.gov/newhomes]
ENERGY EFFICIENCY OF THE FUTURE

Controls – Home Automation
Demand Management
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Questions/Comments??

[Logos for SRP, ENERGY STAR HOMES, and ENERGY STAR PARTNER]