This presentation premiered at WaterSmart Innovations

watersmartinnovations.com
Codification of Water Ratings

Doug Pushard
The Residential Green Building Code Welcomes WERS
City of Santa Fe – THE OLD WAY

- Permitting Code (e.g. UPC, IRC) with ongoing inspections
- Green Building Code with limited inspections
  - 30+ pages, started in 2009
  - Landscape restrictions
  - Water fixture restrictions
  - Mandatory energy (HERS) rating numbers
  - Lower fee structure for buildings meeting green code
  - Multi-year process to update
- No relationship with Water Conservation efforts
Home Energy Rating System (HERS)

- Started in 1995
- Rates a home’s energy usage, so can compare one home to another
- 3rd Party verified
- Santa Fe integrated into Green Code in 2006
- Nationwide 2M+ homes have been rated
Santa Fe Green Code 2016 Update

More Energy Efficient

Less Energy Efficient

Minus 1 point for every 100 SF over 3000, or portion thereof

HERS Index

0
10
20
30
40
50
60
70
80
90
100

JANUARY 2018 SANTA FE HERS REQUIREMENT

2016 SANTA FE HERS REQUIREMENT

CURRENT SANTA FE HERS REQUIREMENT
What is the Water Efficiency Rating Score?
What does WERS do?

• Calculates ALL water of a property or multi-tenancy building
• Calculates all the different water sources and provides a way to model impact of different source water
  • Potable Water
  • Rainwater
  • Greywater
  • Blackwater
  • Stormwater
• Integrates water!
• Provides a water rating # for a home
Santa Fe Green Code 2016 Update

The new required score of 70 is very close to what you would get under the old green building code.

Allows builders to get used to the system before increasing the efficiency requirement.
City of Santa Fe – THE NEW WAY

- Integrates Land Use Code and Water Conservation
- Reduces the requirement for specialized training of city personnel
- Simplifies inspection and code updating process
- Provides builders, architects, home owners more choice
- SAVES WATER

**GREEN BUILDING CODE SCORES**

**Energy and Water Efficiency**

For the residence located at: [INSERT ADDRESS]

<table>
<thead>
<tr>
<th>This home achieved a confirmed Home Energy Rating System (HERS) Index of:</th>
<th>XX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Efficiency Rating Score (WERS) of:</td>
<td>XX</td>
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In addition to the energy and water scores, this home meets the ventilation requirements of ASHRAE 62.2 for healthy indoor air quality and was inspected for heat loss due to thermal bypass. For more information see [www.santafenn.gov/GreenCode](http://www.santafenn.gov/GreenCode)
WERS Dashboard

Alternative Water Used

Potable Water Used

On Site Stormwater Generated

On Site Stormwater Re-used

On Site Blackwater Generated

On Site Blackwater Re-used

On Site Greywater Generated

On Site Greywater Re-used

On Site Rainwater Generated

On Site Rainwater Re-used
Water Efficiency Rating Score (WERS)

- WERS is a tool and verification system from the Green Builder® Coalition, a green building non-profit since 2010
- Technical Advisory Board includes individuals from NM, FL, IL, MO, DC, and MA
- Green Builder® Coalition updates the tool, certifies 3rd party Verifiers, provides and provides on-going reports to agencies
- City of Santa Fe Land Use – Katherine Mortimer
- Green Builder® Coalition – Mike Collignon
- Santa Fe Area Home Builders Association – Kim Shanahan
- Santa Fe Water Conservation – Christine Chavez
Questions?