Green Building
Single Family Orientation
Mission:

*To lead the transformation of the building industry to a sustainable future*
History

- 1985 – Austin Energy Star
- 1991 – Green Building Program
- 1994 – Green Building moves under AE
- 2005 – Single family rated over 1,000 homes
- 2007 – City Council adopts Climate Protection Plan and ZECH by 2015
- 2009 – Inaugural class Green Boots graduates
- 2011 – Green Building Celebrates 20 years
- 2012 – 10,000 Home (under construction now)
About AEGB today

- Marketing and education program to promote more sustainable building
- Take a broad view of the green building is:
  - Process, teamwork, house as a system, community
- 3 programs today
  - Single Family
  - Multi-Family
  - Commercial
Why AEGB?

- Rating system tailored for hot and humid climate region in central Texas
- Local goals for community improvement
- Continuing education and outreach programs
AE & COA Coordination

AE Programs

• PowerSavers
• GreenChoice
• Distributed Energy
• Air Quality

COA Departments

• Neighborhood Planning & Zoning
• Watershed Protection Development Review
• Neighborhood Housing Community Development
• Solid Waste Services
• Austin Water Utility
• Public Works
We View a Building as a System

- Insulation
- HVAC
- Electrical (lighting)
- Building materials (sustainability and durability)
- Windows and window treatments
- All of these need to be considered in order to achieve the best result
Integrated project team:

- Owner
- Designer
- Builder
- Mechanical contractor
- Insulation contractor
- Landscape Designer
- Other major trades
Landscaping and the Rating

- Encourages native plants
- Low-water variety turfgrass
- Proper soil and compost base
- Storm water control
- Protection of trees
- Water-efficient irrigation systems
Why bother to rate a home?

- 3rd party verification
- Market recognition
- Increased value
- Having a home rated sets you apart from the completion
Education and Outreach

- Green by Design → coming up March 31st
  - Geared towards homeowners but open to all
  - Valuable sponsorship opportunities available
- Free monthly seminars at LCRA
- Cool House Tour
- Online directory
- Yard Signs
Rating Area

- 27 counties within extended area rater range

• 2 Different climate zones
Extended area raters

Increased its regional reach to:

- Respond to interest from builders operating outside our service area
- Maintain the integrity of the term “green building” in Central Texas
- Leverage broad similarities in terrain and climate
- Benefit from common interests, issues, and goals

List of extended area raters can be found: www.greenbuilding.austinenergy.com
Extend Area Ratings

Besides the rating all projects in the extended area must meet:

- Current City of Austin codes
- Current AEGSB basic requirements
Green Building Total Savings

Total Demand Savings

<table>
<thead>
<tr>
<th>Year</th>
<th>Savings (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2003</td>
<td>9,155</td>
</tr>
<tr>
<td>FY 2004</td>
<td>12,399</td>
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<tr>
<td>FY 2005</td>
<td>10,935</td>
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<td>FY 2006</td>
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<tr>
<td>FY 2009</td>
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<tr>
<td>FY 2010 GOAL</td>
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Total Energy Savings

<table>
<thead>
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<th>Savings (MWh)</th>
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<td>FY 2009</td>
<td>30,677</td>
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<td>FY 2010 GOAL</td>
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</table>

Demand Savings

Energy Savings
Green Building Total Savings

Building Water Savings

FY 2007: 2,037
FY 2008: 12,838
FY 2009: 18,794
FY 2010: 0

July Irrigation Water Savings

FY 2007: 1,195
FY 2008: 3,773
FY 2009: 6,432
FY 2010: 0

Construction Waste Savings

FY 2007: 3,327
FY 2008: 40,479
FY 2009: 27,576
FY 2010: 0
Thank you!