Workshop on Renewable Energy
AEGB Commercial Program
Green Building

The First Green Building Program in the U.S. (1991)

Goals

- Help delay need for new power plants
- Contribute to energy security
- Improve air quality
- Safeguard the environment
- Make green building the industry standard

Meeting our goals

- Promote the design, construction, purchase and operation of green homes and buildings through method, education and marketing
- Administer the Energy Code for the CoA
Green Building Ratings

Locally developed rating tools to measure sustainability in these areas:

- Sustainable Sites
- Energy Efficiency
- Water Quality and Conservation
- Materials and Resources
- Indoor Environmental Quality
- Innovation
- Community Benefits

Ratings evaluate buildings on a five-star scale: 5 is highest
Green Building Education

• Building Professionals
  Monthly seminars
  Networking
  Conferences

• General Public
  Green by Design
    4 per year
    Over 3000 attendees
  Tradeshows

• Consulting
  Manage It Green
  Other utilities + cities
Green Building Results

Single-Family
Over 7,500 homes rated
Last 2 years: over 1,000 per year

Commercial
Over 2.5 million sf rated
Currently 116 projects, 13.5 million sf

Multi-Family
52 projects rated, 44 in process

FY 2006-2007 Energy Savings
Peak-demand reduction: 15 megawatts
Energy savings: 23,733 megawatt hours
Green Building Required

Where is Green Building Required?

Mueller
CBD/DMU
UNO
SMART HOUSING
PUD’s:
  • Lakeshore
  • Pioneer Crossing
  • Wildhorse
  • East Avenue
  • Domain
  • Lakeshore
  and more...
Commercial Green Building Rating

TAKE A LOOK AT THE RATING
Commercial Green Building

• Schematics/Programming
  Team Meeting
  Introduce the Rating Tool
  Set Goals
  Establish Owner Design Intent

• Design Development
  Begin Basis of Design Narratives
  50% DD Review
  Update Rating Tool
  100% DD Review
  Update Rating Tool
Commercial Green Building

• Construction Documents
  50% CD Review
  Update Rating Tool
  100% CD / Basis of Design Review
  Update Rating Tool
  Energy Modeling
  Conditional Approval for Building Permit

• Pre-Construction
  Construction Waste Management Plan
  Commissioning Plan
  Update Rating Tool
Commercial Green Building

• Construction
  Building Materials Information Tracking
  Construction Waste Management Tracking
  Site Visits
  Update Rating Tool

• Substantial Completion
  Draft Commissioning Report
  Update Rating Tool
  Final Approval for CO
Commercial Green Building

• Post Construction

Finalized Rating Tool with Calculators
Final Commissioning Report
Meeting to Generate a Case Study
Final Rating
Green Building

Quality of Life in Austin

How high can we get the number?

The New Yorker
Green Building

Quality of Life in Austin

How high can we get the number?

The New Yorker
Green Building

Quality of Life in Austin

How high can we get the number?

The New Yorker

80%