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# Setting and Tracking Energy Efficiency Targets

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to make buildings better for people and the environment



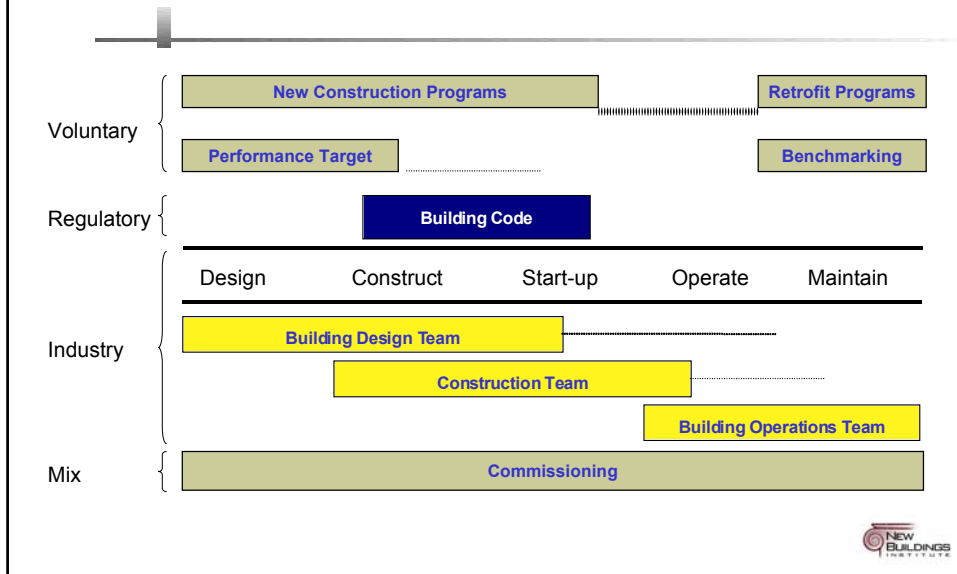
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## Introduction

- ◆ Simple Building Goals (in no particular order)
  - Low-energy building
  - Satisfied occupants
  - Meets organizational goals
  - Asset to the community
  - Performing asset for building owner



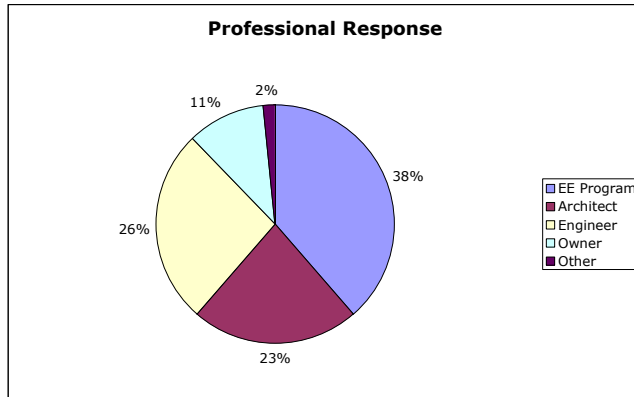
# Programmatic Path



# What do Players Think?

- ◆ Telephone Survey
  - Meant to inform study as to practices
  - Not statistically significant
- ◆ Three distinct groups:
  - EE Program Designer/Manager
  - Architects, Engineers
  - Owners, Operators and Developers
- ◆ Ask about practices related to setting design targets and benchmarking

# Who Responded?

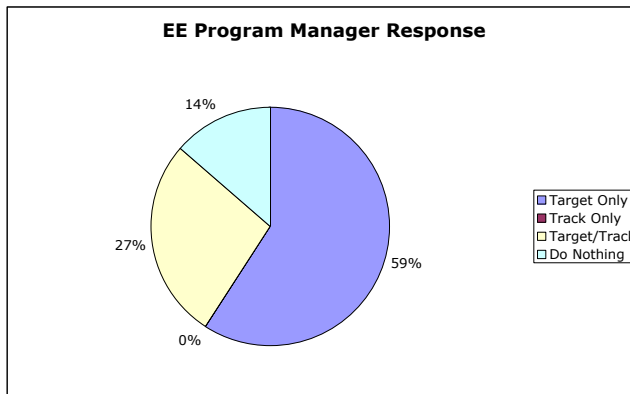


Q1. Would you define your profession as:

N = 57



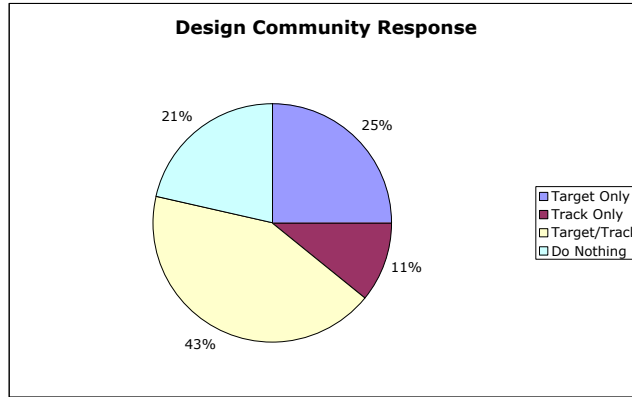
# Target Setting



EE Programs tend to focus on target setting with some tracking



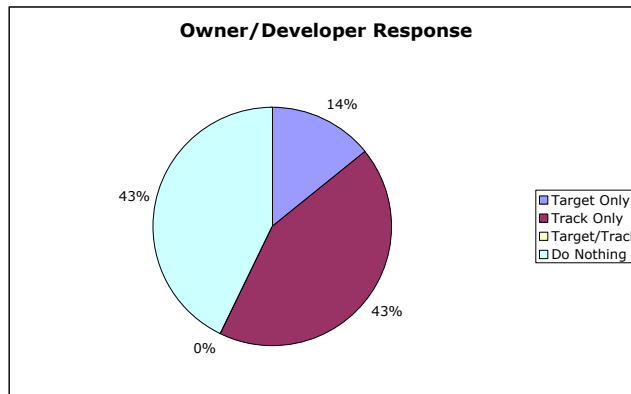
# Design Community



Designers were active in target setting and tracking



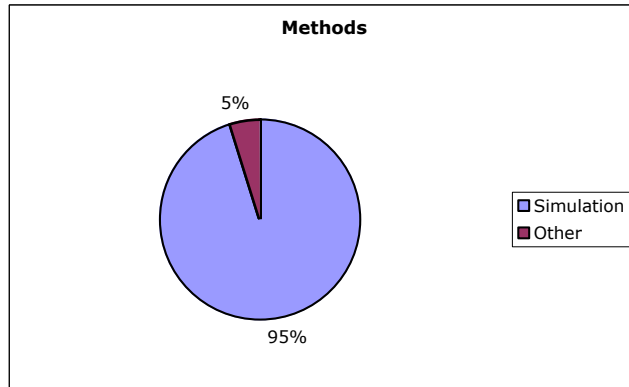
# Owner Response



Owners tend to focus on tracking or no-action



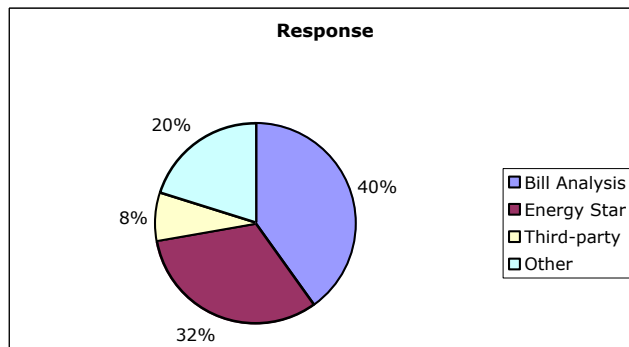
# Target Setting



DOE 2.1 Simulation favored approach amongst those who set performance targets (68% of respondents)



# Benchmarking Tools



Utility bill analysis most popular method amongst those who benchmark



# Conclusion

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- ◆ Practices goal driven
  - Utility programmatic
  - Design team client driven
  - Owner/Developer based on market realities (or not at all)
- ◆ Significant gaps exist
  - Program design doesn't account for benchmarking
  - Owners/developers lack of interest in energy issues



# Next Steps

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- ◆ Finalize survey results
- ◆ Perform Analysis
  - Predicted energy use vs. actual
  - Buildings in CA, NW, NE
  - Understand “apples and oranges”
    - Simulations vs. benchmarking
- ◆ Publish results in ACEEE Paper

