City Energy Project Findings

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About CEP Energy Compliance Study

• Uses DOE compliance methodology
• Uses Score&Store to compute compliance rates
• Plan Review accompanied by On-Site inspection
• NOT Statistically Valid
About our Data

• Where we’ve visited for CEP
  • Colorado
  • Florida
  • Utah
  • Washington D.C.

• Other places we’ve Looked
  • Idaho
  • Nebraska

• 80 Commercial Buildings were assessed with accompanied plan review

• Compliance Rates Ranged from 9% to 100%
Overview

- Lack of documentation
- Insulation Values complied
- No NFRC Certificates on Site Built Windows
- Lack of Compliance for Daylighting Controls
- Mechanical Systems typically complied
Building Envelope

In the field, insulation generally met or exceeded requirements for prescriptive approach.

There was a lack of documentation

No NFRC Certificates for site built windows

Insulation values called out on majority of plans

Recommendations

COMcheck

Compliance Forms
Lighting

Lack of compliance with daylighting controls

Bi-level switching was mostly fulfilled with occupancy sensors

Lack of documentation

Recommendations

Education on lighting controls and light design

COMcheck
HVAC

No documentation, especially regarding heating and cooling loads

Good compliance with insulating and sealing ductwork and thermostatic controls

Recommendations

COMcheck

Enforce HVAC load calculations
Take away points

• Require documentation
  • Promote COMcheck
  • Develop prescriptive compliance form
• Provide Training for Lighting Controls and Daylighting requirements
• Provide *Consistent* resources
Questions