



Enhancing Consistent Compliance within New York State:

25 Years of Energy Codes

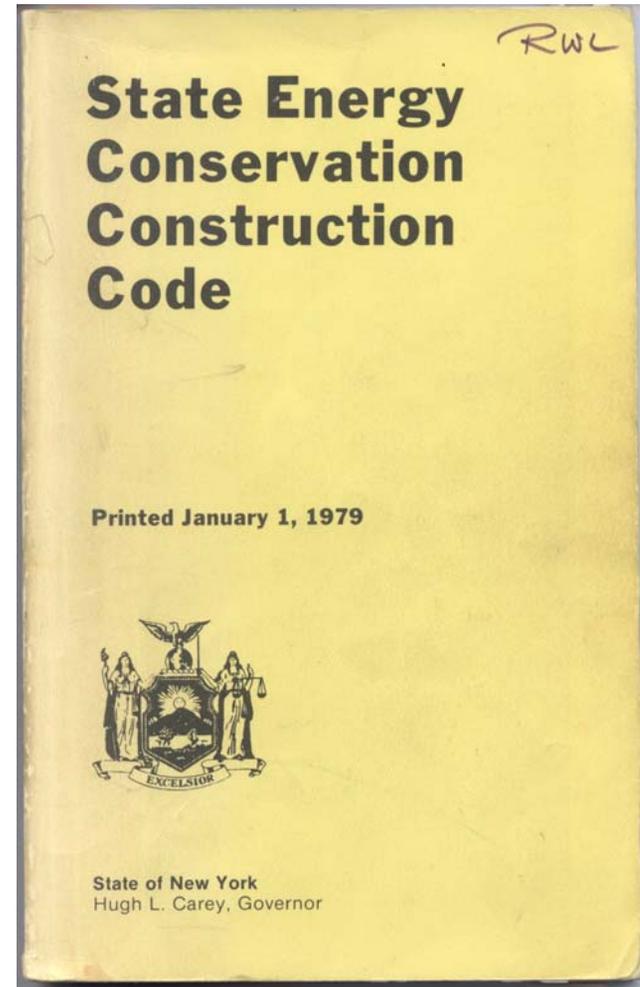


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- Mandatory State-wide, January 1, 1979.
- Prescriptive one- & two-family:
 - Roof $u = .05$
 - Exterior wall $u = .08$
 - Glazing $u = .69$
 - Doors $u = .40$
 - Floors $u = .08$

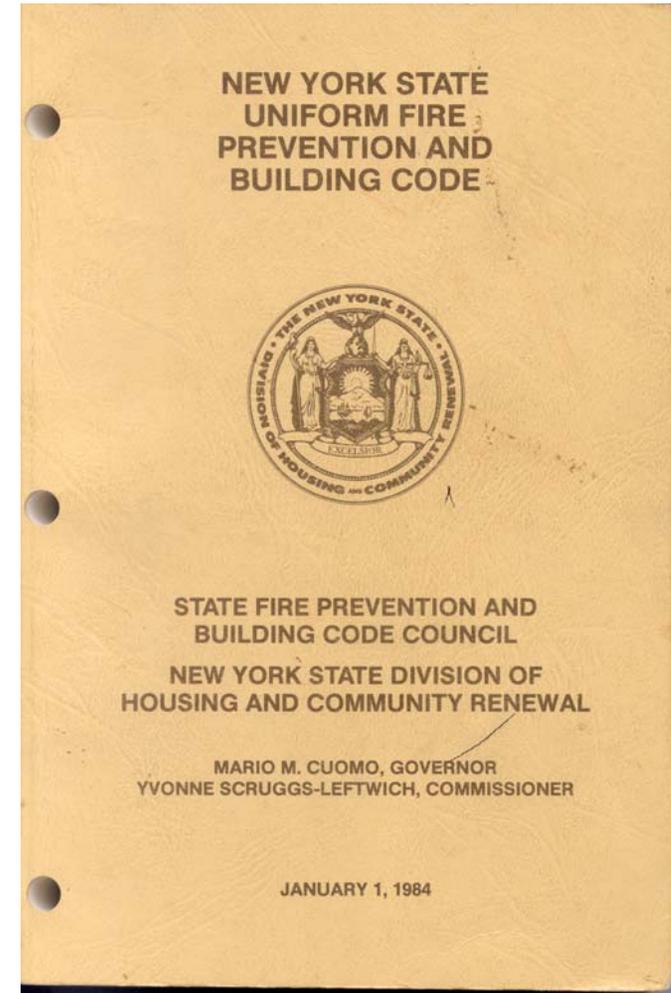


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- Mandatory state-wide, January 1, 1984.
- New York City retained own building & fire codes.
- Applicable to all buildings, public and private.



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- Fall, 2003 survey of code officials, conducted by students at Hamilton College, under the direction of Paul G. Wyckoff, Professor of Government.
- DOS Codes staff Ray Andrews and John Addario served as project advisors.
- Purposes:
 - Analyze statewide trends in code enforcement
 - Evaluate successes in implementation & enforcement



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- Survey e-mailed to approximately 200 code official offices.
- Hard copies sent to DOS regional offices.
- Estimated 230 – 250 code officials notified.
- 174 responses received; 70 -75 percent response rate.



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Background & Experience

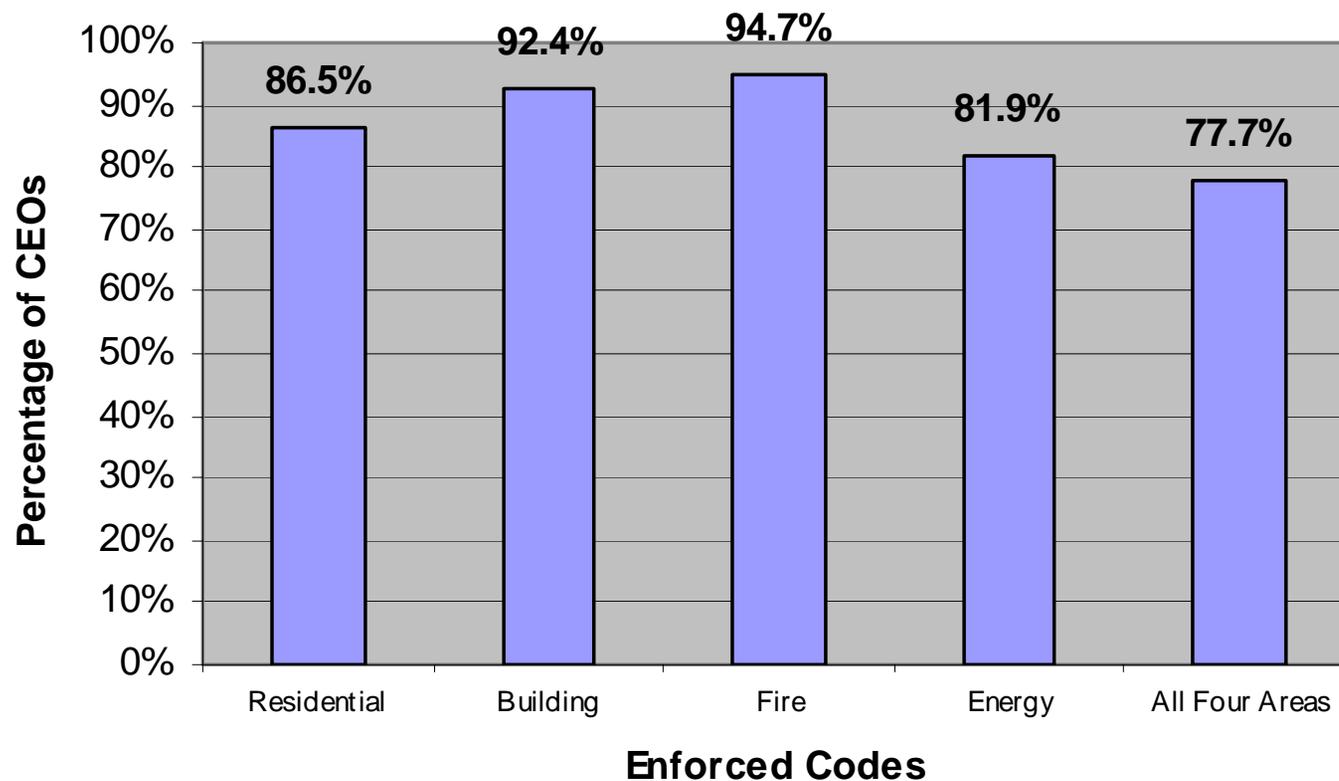


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Figure 1: Area of Code Expertise

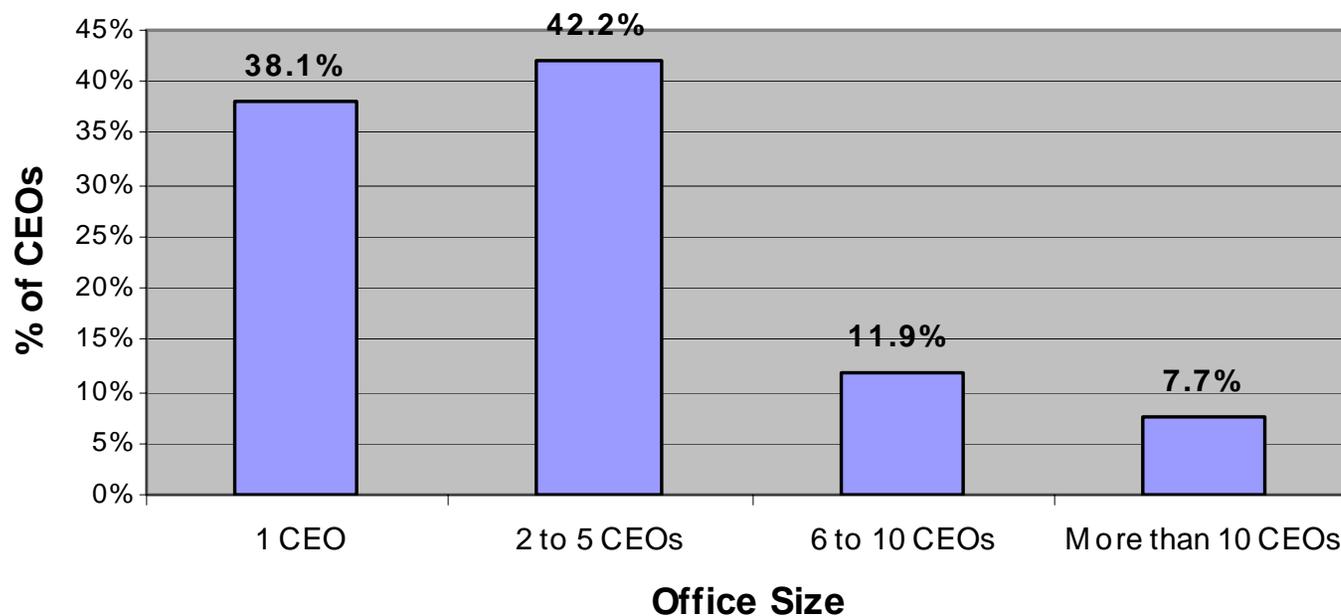


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Figure 3: Respondent Office Size

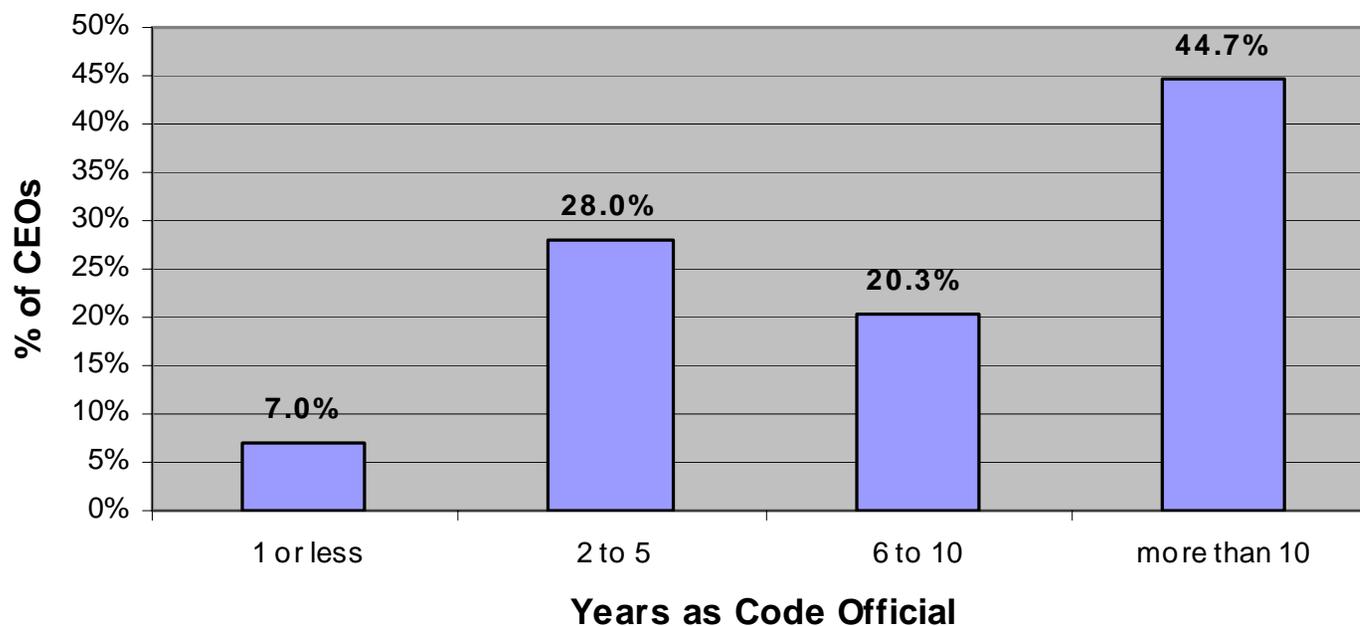


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Figure 2: Code Enforcement Experience



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- State regulations require code officials to obtain 24 hours annually of continuing education.
- DOS provides free seminars, primarily for code officials.
- State and regional code official organizations sponsor seminars.
- Industry associations and companies provide seminars.
- DOE/NYSERDA sponsored seminars in 2004.



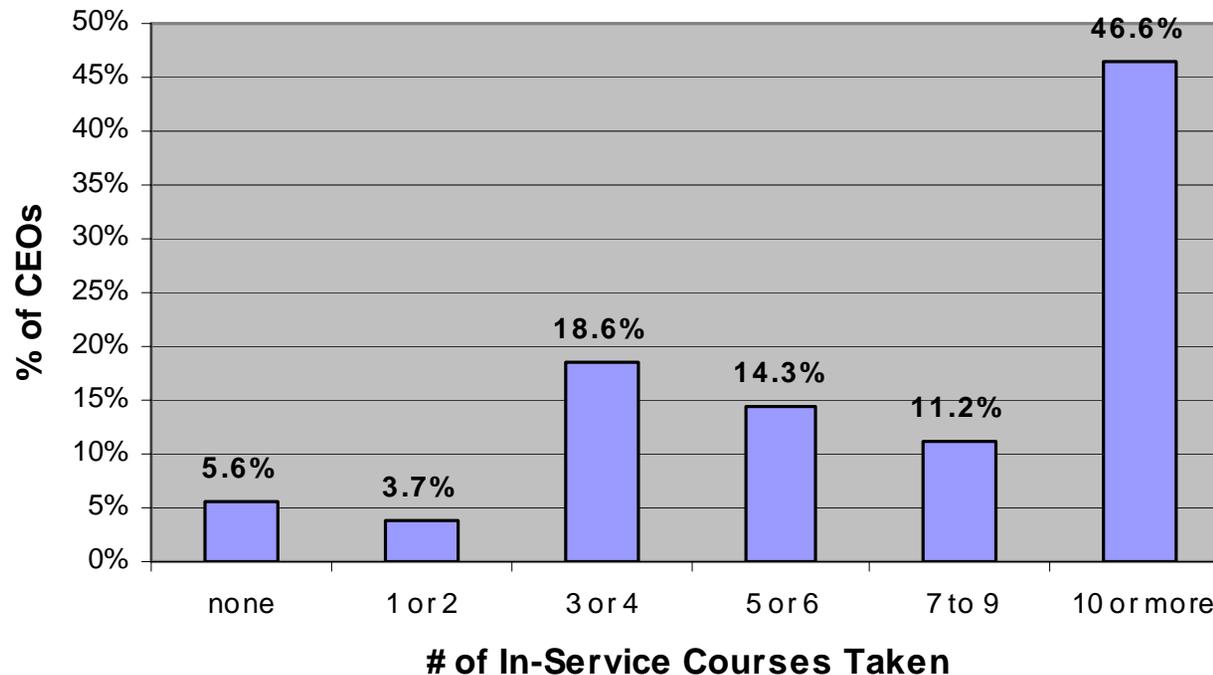
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Number of courses attended in past 3 years.

Figure 4: Code Enforcement Education



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Code Enforcement Programs

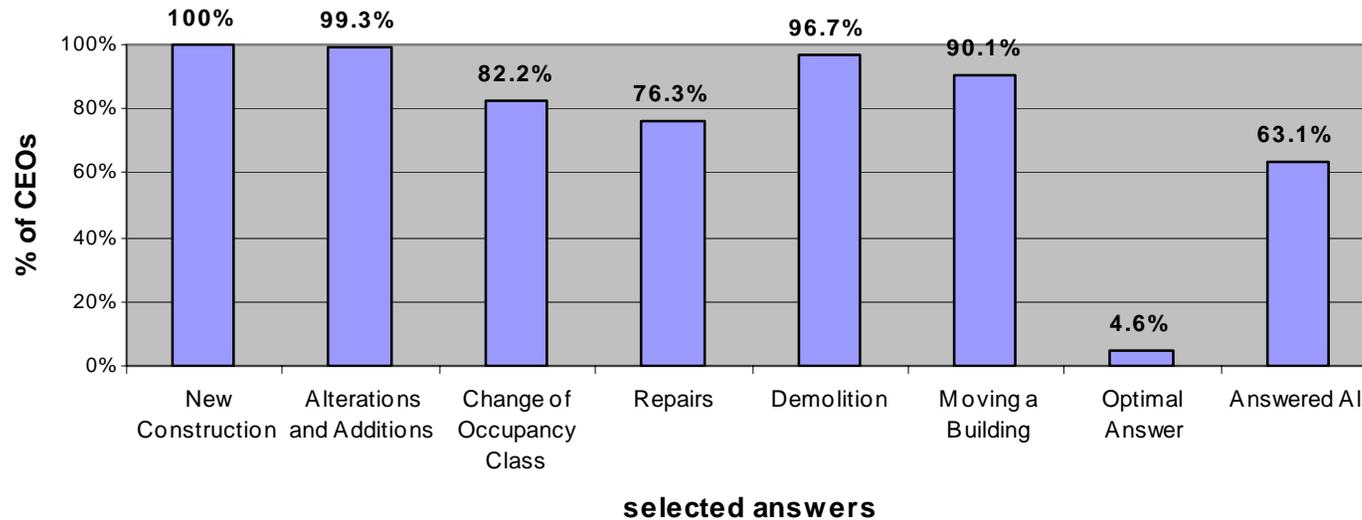


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Figure 5: Building Permits Are Required For:



- Regulations do not require permits for changes of occupancy or repairs.

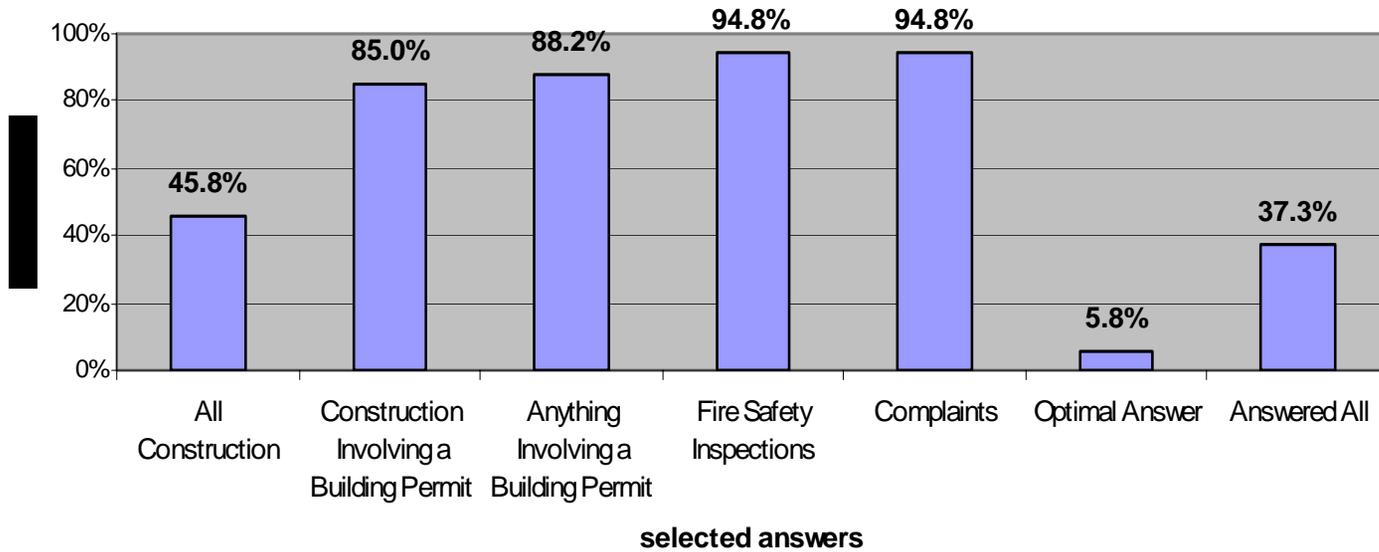


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Figure 6: Inspections Are Required For:



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Table 2: Reported Residential Site Inspections

Number of Site Inspections	% of Respondents
1	4.5%
2	1.3%
3	4.5%
4	7.0%
5	13.4%
more than 5	69.4%





Table 3: Reported Commercial or Multi-Family Inspections

Number of Site Inspections	% of Respondents
1 or less	5.6%
2 to 5	16.7%
6 to 10	42.6%
More than 10	35.2%





DOS regulations require construction inspections before enclosing or covering work & at key stages:

- Building location
- Site preparation
- Excavation
- Foundation
- Framing
- Superstructure
- Electrical
- Plumbing
- HVAC



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Energy Conservation Code

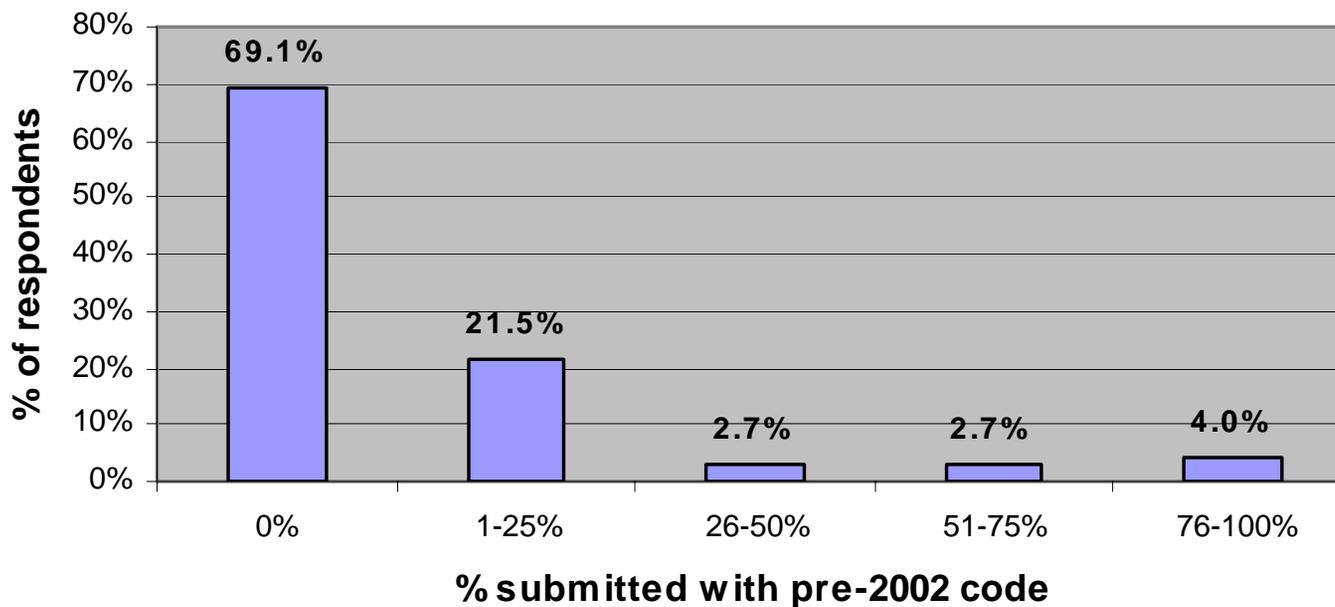


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Figure 11: Submitted Designs for Energy Code with Pre-2002 Code





43a. Do you require a specific compliance path in your jurisdiction (such as RES-check, prescriptive, etc.) ?

yes- 52.3%

no – 47.7%

43b. If YES, which compliance path do you require in your jurisdiction?



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44. If RES-check is used for compliance, do you verify that the building plans match the RES-check calculations (compliance report)?

yes – 73.4%

no – 3.9%

do not require calculations – 4.7%

yes, when calculations are submitted with plans – 18%

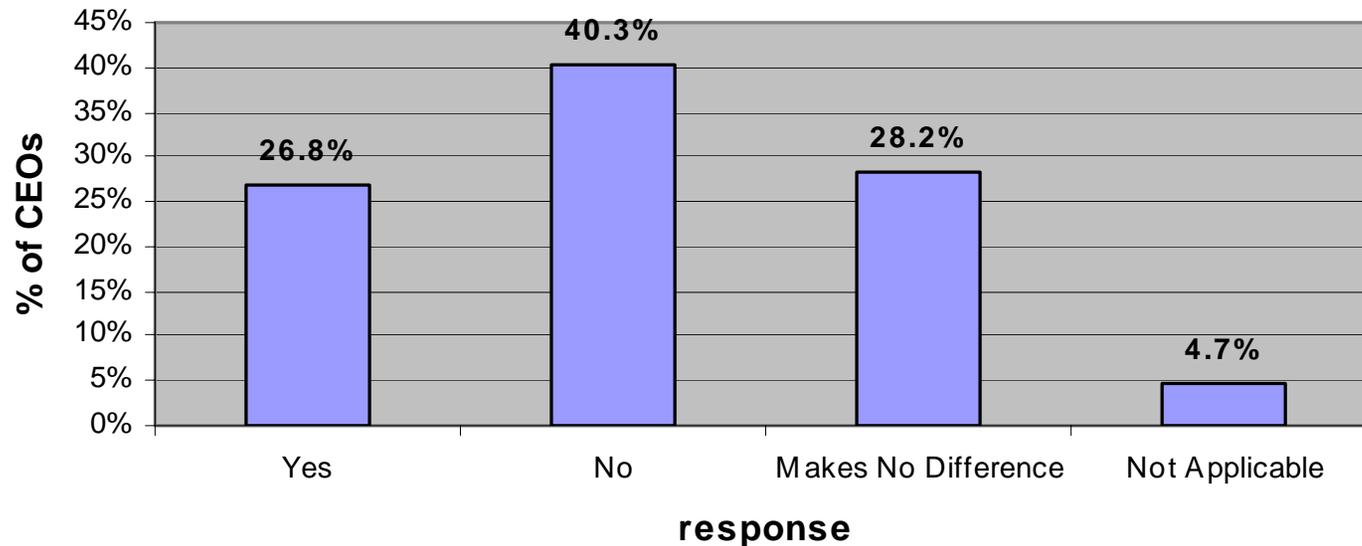


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Figure 12: Do Multiple Compliance Paths Make Enforcement More Difficult?



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Conclusions



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45. Would you be interested in a separate four hour in-depth Energy Code training each focusing on Building Science, Envelope, Mechanical or Lighting?

yes – 84.7%

no – 15.3%



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- Transition training and continuing education of code officials has resulted in good awareness and knowledge of the Energy Code.
- Registered design professionals lag code officials in awareness of new codes.
- Builders show less awareness of new codes than code officials or design professionals.
- More outreach to builders is needed to improve compliance.



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