

BIG EFFICIENCY SQUEEZE

Patterns of Code Compliance in California Buildings

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California's Zero Net Energy Targets

ZNE for all new residential construction by 2020



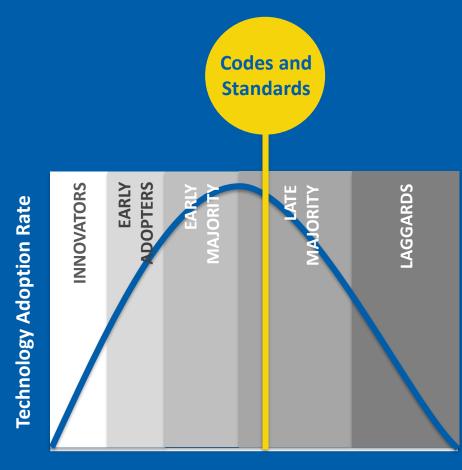
ZNE for all new commercial construction by 2030

Efficiency + Renewable Generation

Source: Energy Efficiency Strategic Plan (2008) from California Public Utilities Commission

BECC 2017

THE PAST
Codes and
standards trailed
market
transformation

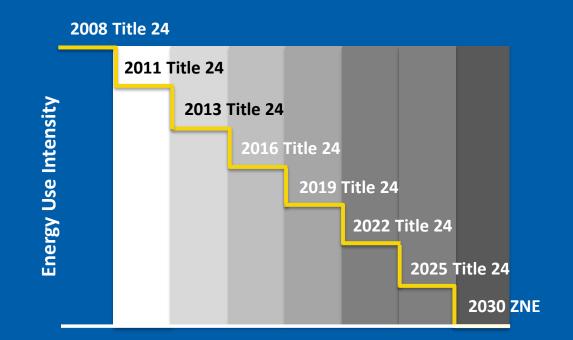


Energy Efficient Technology Commercialization Process

Source: ACEEE Market Transformation

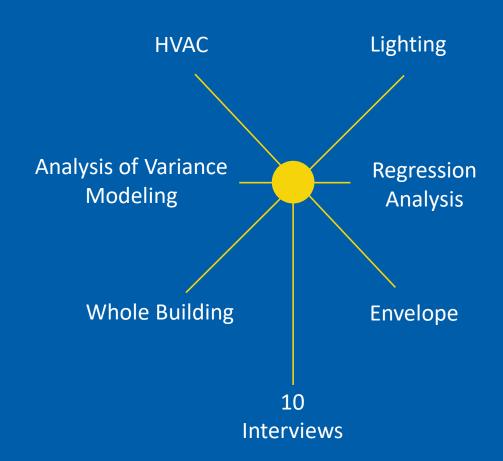
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THE PRESENT
Codes and
standards lead
market
transformation



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Patterns of 2008 Title 24 Code Compliance in 91 Buildings



Which building types are...

COMPLIANT? NONCOMPLIANT? WHY?

Funded by CPUC and the California Investor Owned Utilities

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What did restaurants and gas stations have in common?

Didn't meet envelope prescriptive requirements



Barely exceeded Title 24 2008

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Patterns of Compliance with Title 24

SITES IN OUR SAMPLE (ON AVERAGE)

Exceeded



- Title 24 (by 10%)
- Lighting prescriptive requirements (by 8%)
- HVAC prescriptive requirements (by 3%)

Barely complied with envelope requirements (by -0.6%)

Envelope is longest-lasting component of the building, yet it receives the least amount of scrutiny during design

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7 Minutes Not Enough? Contact Us



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