

San Francisco Green Building Code - Energy

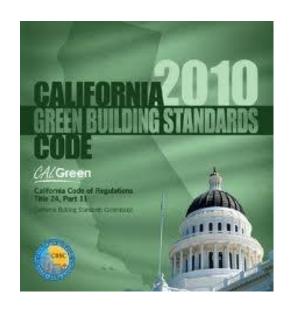
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Policy for New Construction and Alterations









California Green Building Standards

California Energy
Efficiency Standards

City Code LeveragesGreen BuildingLeadership Labels

Incentive: Priority Permit Processing



Priority awarded to projects that commit to:

- LEED Platinum
- Net Zero Energy
- Living Building Challenge
- Passive House

Standard Timeframe 0 6-9 months Extremely Green Projects 0 1 month

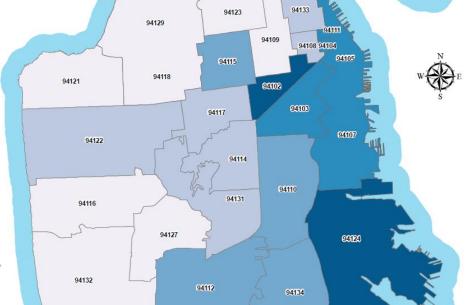


City and County of San Francisco
Planning Department











Zero Net Energy

Action Plan: Commercial Building Sector 2010-2012

Developed by ZNE Stakeholders

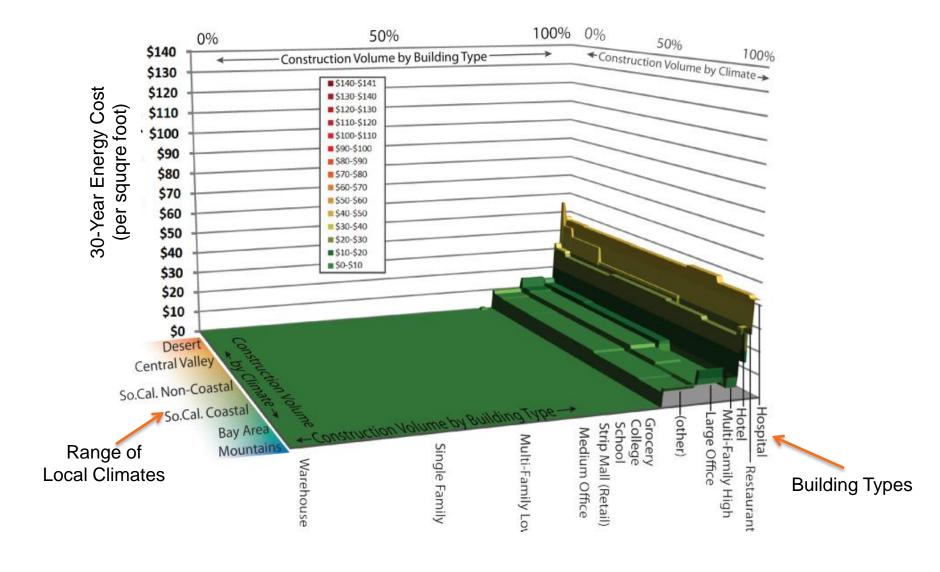
CA Goals: Zero Net Energy for

- All new residential by 2020
- All new commercial by 2030
- 50% of existing commercial by 2030

For more info: tinyurl.com/CAZNEPlan

Zero Net Energy is Feasible in California





Green Building Requirements



	2008	2009	2010	2011	Thru Dec 31, 2013	Jan 1, 2014
New Comm						
Large ≥ 25k ft	LEED Certified	LEED Silver			LEED Gold	LEED Gold (v2009)
Other	LEED checklist	LEED checklist + Local Priority Measures CalGreen +15% Beyond Title 24 2008				
Renovations						
First Time Tenant >25k sq ft	LEED Certified	LEED Silver		LEED Gold	LEED Gold (v2009)	
Major Alteration >25k sq ft	LEED Certified	LEED Silver		LEED Gold	LEED Gold (v2009)	
New Reside						
High Rise ≥ 4 occupied floors	LEED Certified) Certified LEED Silver		or GreenPoint Rated		LEED Silver or GreenPoint Rated
All Other Residential 1+ units	GreenPoints Checklist	25 GreenPoints	GreenPoint Rated			GreenPoint Rated or LEED Silver

SF Energy Requirements



	Thru Dec 31, 2013	Jan 1, 2014 – June 30, 2014	July 1, 2014
New Commercial			
Large ≥ 25k ft	+15% Beyond Title 24 2008	~Meet T24 (2008)	Meet T24 2013
Other	+15% Beyond Title 24 2008	~Meet T24 (2008)	Meet T24 2013
Renovations			
First Time Tenant >25k sq ft	+15% Beyond Title 24 2008	~Meet T24 2008	Meet T24 2013
Major Alteration >25k sq ft	~Meet T24 2008	~Meet T24 2008	Meet T24 2013

SF Energy Requirements



	Thru Dec 31, 2013	Jan 1, 2014 – June 30, 2014	July 1, 2014
New Residential			
High Rise ≥ 4 occupied floors	+15% Beyond Title 24 (2008)	Based on choice of rating system:	Based on choice of rating system:
		 LEED BD+C 2009 – Meet T24(2008) 	 LEED BD+C 2009 – Meet T24(2013)
		 GreenPoint Rated – 15% Beyond Title 24 (2008) 	 GreenPoint Rated – 10% Beyond Title 24 (2013)
		 LEED for Homes (including MidRise) – 15% Beyond Title 24 (2008) 	 LEED for Homes (including MidRise) – 10% Beyond Title 24 (2013)
	+15% Beyond Title 24 (2008)	Based on choice of rating system:	Based on choice of rating system:
All Other Residential		 GreenPoint Rated – 15% Beyond Title 24 (2008) 	 GreenPoint Rated – 10% Beyond Title 24 (2013)
1+ units		 LEED for Homes (including MidRise) – 15% Beyond Title 24 (2008) 	 LEED for Homes (including MidRise) – 10% Beyond Title 24 (2013)

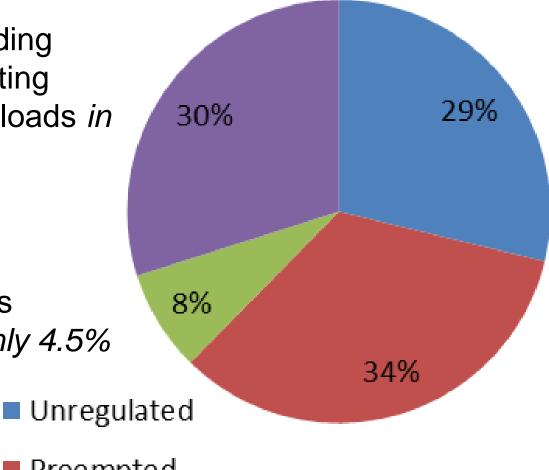
Multifamily Energy End Use, T24 2013: The End of the Line for Climate Zone 3?



 A 15% cut in whole building energy use requires cutting modeled 'Performance' loads in half

OR:

 15% cut in modeled 'Performance' loads cuts expected energy use only 4.5%

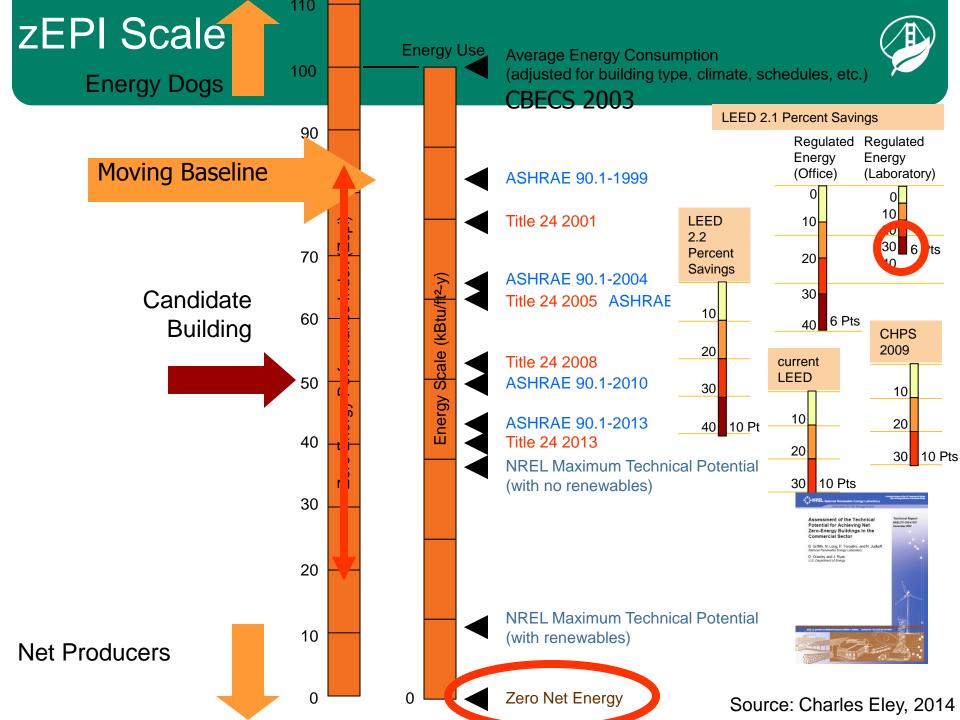


Preempted

Mandatory

Performance

Source: ARUP (2014)



Learn more



San Francisco:

Green Building Code

Priority Permitting

Existing Commercial Buildings Policy

This Slideshow

<u>www.sfdbi.org</u>
<u>http://tinyurl.com/prioritypermit</u>
<u>www.sfenvironment.org/ecb</u>
<u>http://tinyurl.com/sanfran-t24-2013</u>

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California:

CA Zero Net Energy Strategic Plan ARUP Zero Net Energy Study California Executive Order B-18-12 CA Green Building Action Plan tinyurl.com/CAZNEPlan tinyurl.com/ARUPZNEFeasibility tinyurl.com/GovGreenOrder tinyurl.com/CaGBAction

