

7th Annual Statewide Energy Efficiency Forum Beyond the Energy Code: Exploring the Value of Forging Ahead

City of Los Angeles June 16, 2016



What does a reach code mean for Los Angeles?

Cool Roofs

- As of October 1, 2014, the LA Green Building Code requires roofing material in residential buildings meet certain values for the "aged solar reflectance" and "thermal remittance" or for "SRI"
- Exceptions:
 - Roof repair
 - Roof replacement when the roof area being replaced is equal to or less than 50% of the total roof area
 - Where building integrated photovoltaic (BIPV) are installed
 - Permits issued prior to January 1, 2015 for the replacement of an existing roof with asphalt roof shingles or asphalt composition roll roofing



	Min. 3-yr Aged Solar Reflectance	Min. Thermal Emittance	SRI
Low-slope ≤ 2:12	0.63	0.75	75
Steep-slope > 2:12	0.20	0.75	16



What does a reach code mean for Los Angeles?

Water code changes

As of June 6, 2016 the LA Green Building Code requires:

- commercial and residential buildings to install plumbing fixtures and fittings to ensure a 20% reduction of water use;
- a water budget for landscape irrigation consistent with the statewide Model Water Efficient Landscape Ordinance;
- sub-metering in new multi-family dwellings and commercial buildings over 50,000 square feet; and
- additional water conservation measures to reduce water use and maximize the use of recycled water and graywater.



What does a reach code mean for Los Angeles?

Existing Buildings!!!

- LADWP adopted a target to achieve 15% of their energy supply mix through efficiency efforts by 2020; 50% more aggressive and three years earlier than required by the state.
- Mayor Garcetti signed an Executive Directive to reduce per capita potable water use by 20% by 2017 and reduce DWP's purchase of imported potable water by 50% by 2024.
- Statewide program in progress through AB 758 to reduce energy use in all existing buildings statewide and Governor Brown's water mandates.

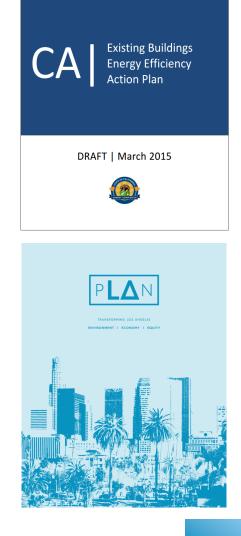
December 3rd, 2014: City Council Motion 14-1478 initiated an effort to:

" convene a stakeholder process to develop a program to improve the energy and water efficiency of existing buildings."



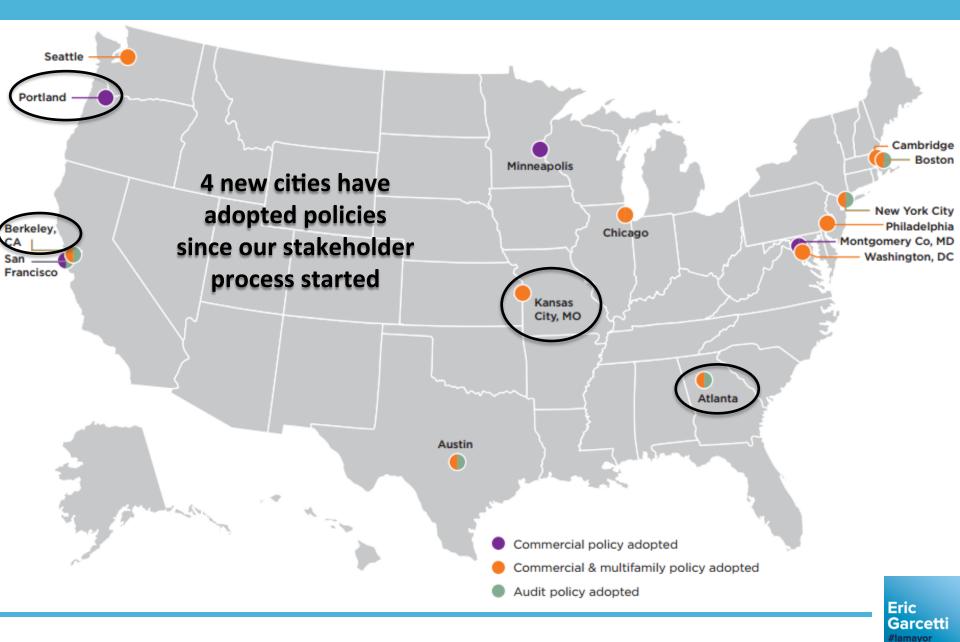
Consistent with State and City Efforts

- SB 350, the Clean Energy and Pollution Reduction Act of 2015 ("Golden State Standards") adopted
 - Double energy efficiency
 - 50% of electricity from renewable resources
- AB 758 Action Plan adopted
- LA's Sustainable City pLAn released
 - 30% reduction in energy use per square foot by 2035
 - 25% reduction in water use per capita by 2035
 - 80% reduction in GHG emissions by 2050

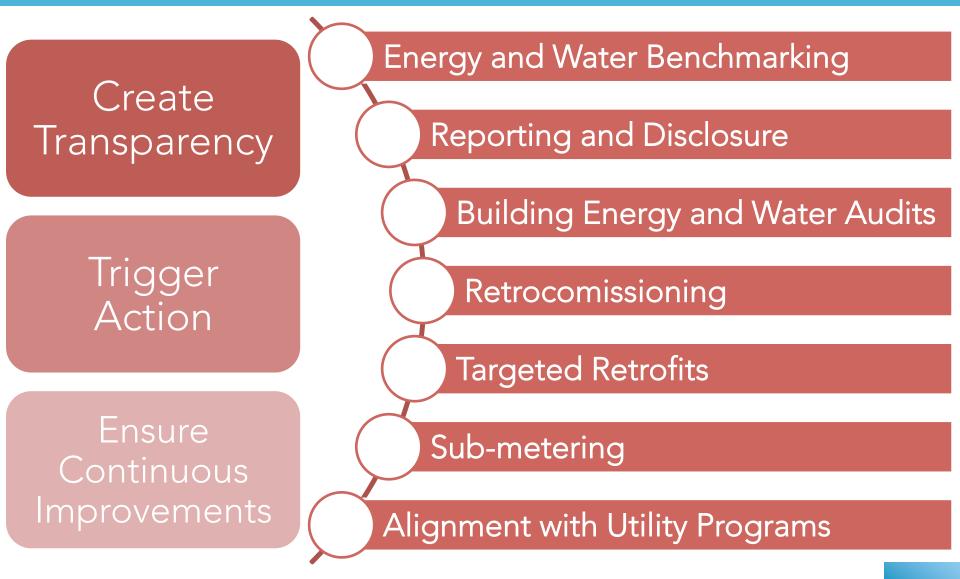




We Can Learn from Other Cities

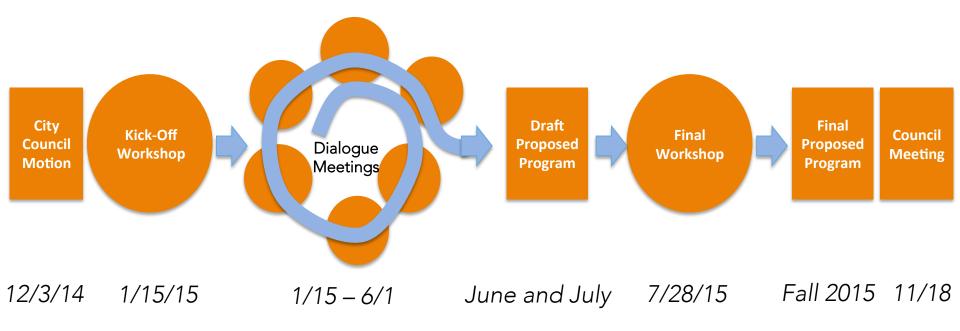


Trends and Best Practices from Other Cities





Stakeholder Process Overview





Non-traditional Code Development

- Los Angeles Chamber of Commerce
- Los Angeles Business Council (LABC)
- Los Angeles Alliance for a New Economy (LAANE)
- Strategic Concepts in Organizing & Policy Education (SCOPE)
- IBEW Local 11
- Apartment Association of Greater Los Angeles (AAGLA)
- California Apartment Association (CAA)
- Affordable housing owners
- Building Owners & Managers Association (BOMA)
- US Green Building Council (USGBC) LA Chapter Existing Building Committee, Westside Branch and SFV Branch

- Central City Association (CCA)
- California Energy Commission (2x)
- Clean Energy Coalition
- Energy Upgrade California
- Tenant group representatives
- American Institute of Architects (AIA)
- LA Better Buildings Challenge (LA-BBC)
- Southern California Gas (SoCalGas)
- Building Industry Association (BIA)
- Institute of Real Estate Managers (IREM)

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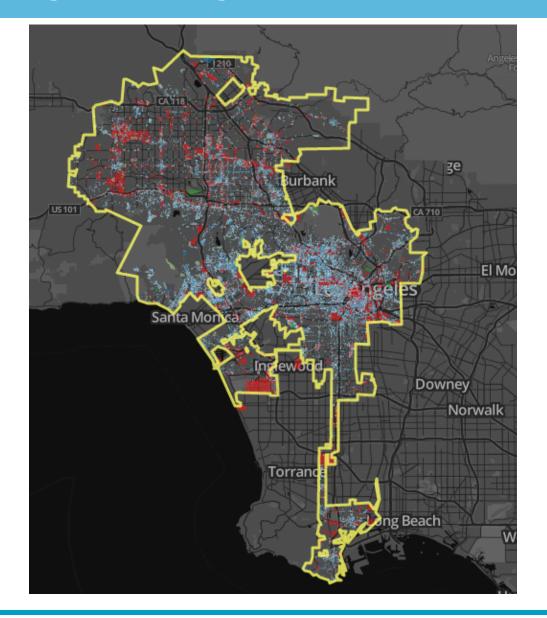
- Valley Industry and Commerce Association (VICA)
- International Facilities Managers
 Association

Where is energy being used?

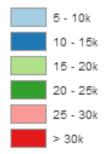
Built Square Footage	Percent BTUs	Percent of Total Parcels	Number of Parcels
>50,000sf	33.7%	0.8%	5,178
>40,000sf	35.3%	1.0%	6,746
> 30,000sf	37.8%	1.4%	9,467
> 25,000sf	39.2%	1.7%	11,621
> 20,000sf	41.4%	2.2%	14,959
> 15,000sf	43.9%	3.0%	20,048
> 10,000sf	47.3%	4.4%	29,717
> 5,000sf	54.8%	9.9%	66,614

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Large buildings are located throughout the city



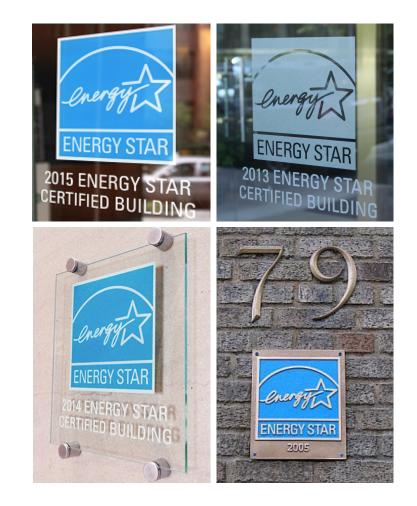
Building Size Categories (Square Feet)



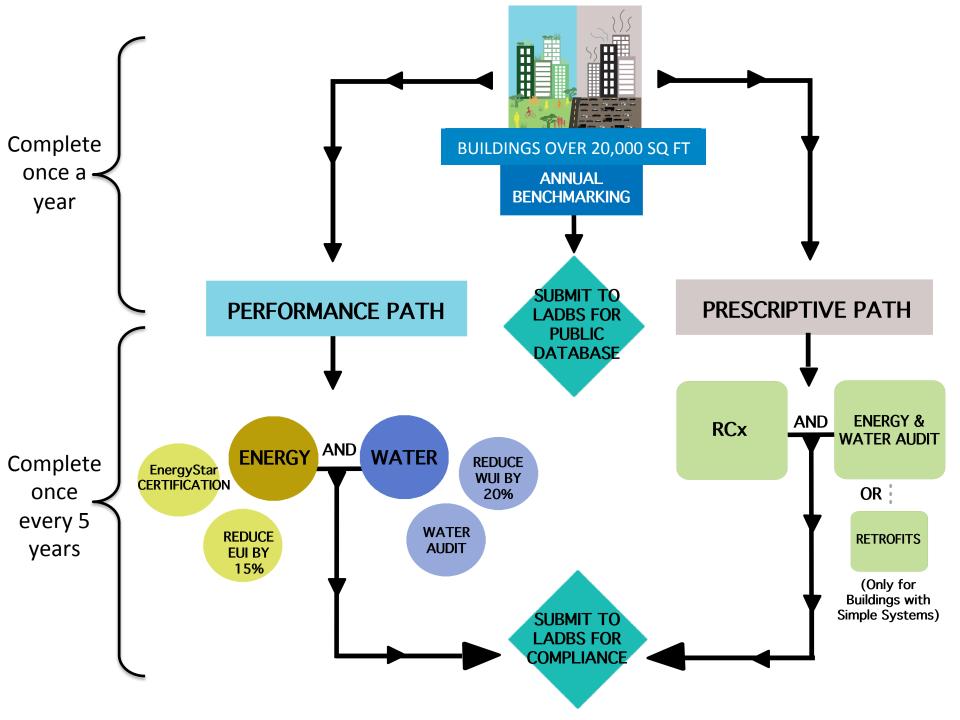


Policy Program Overview

- Buildings will be required to benchmark their energy and water use using Energy Star Portfolio Manager and submit key output to the Department of Building and Safety once a year
- Benchmarking output information will be available on a public website
- Building owners will opt into one of two pathways to reduce energy and water consumption once every five years



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Supporting Programs and Organizations



• Support building owners to take early action



• Offer various programs to assist with financing



• Conduct outreach to educate building owners and property managers



Next Steps





LAexistingbuildings.org

