# City of West Hollywood Green Building Program Update

Final Stakeholder Working Group Meeting February 26<sup>th</sup>, 2019





City of West Hollywood California 1984



# Tonight's Agenda

- 1. Meeting Objectives
- 2. Recap & Report Out:
  - a. Review initial project goals and process to date
  - b. New ordinance format
  - c. New code recommendations
  - d. Concurrent & Related Initiatives
  - e. Implementation & Administration
- 3. Next Steps

# 3

# **Meeting Objectives**

- 1. Confirm overarching project goals are being achieved
- 2. Confirm proposed green building recommendations are in line with feedback received and industry best practices
- 3. Discuss related concurrent & related initiatives
- 4. Review timeline and next steps



# **Project Goals & Key Questions**

Maintain a "**best-in-class**" green building program, recognizing the evolution of green building industry and responding to WeHo's unique built environment

## **Key Questions:**

- 1. What are the city's current green building priorities?
- 2. Do we pursue a new iteration of a local point-based system?
- 3. Do we simply defer to LEED?
- 4. Do we align with and build upon the State's requirements?
- 5. Do we still offer incentives for high-achieving projects?

# **Existing Green Building Standards Comparison**

Green Building Category	West Hollywood Green Building Code (2007)	CALGreen	LEED
Site Planning & Design	<ul> <li>Alternative Transportation</li> <li>Transportation Demand Management</li> <li>Construction Debris Control</li> <li>Stormwater diversion / Storm drains</li> <li>Parking lot landscaping for surface lots</li> <li>Permeable surfaces</li> </ul>	<ul> <li>Short-term bicycle parking</li> <li>Long-term bicycle parking</li> <li>{Voluntary] Stormwater Design</li> <li>EV Charging Readiness</li> </ul>	<ul> <li>SS Prereq: Construction Activity Pollution Prevention</li> <li>LT Credit: Surrounding Density &amp; Diverse Uses</li> <li>LT Credit: Access to Quality Transit</li> <li>LT Credit: Sensitive Land Protection</li> </ul>
Energy Efficiency	<ul> <li>Future photovoltaic</li> <li>ENERGY STAR appliances</li> <li>Energy efficient outdoor lighting</li> <li>Energy efficiency</li> </ul>	<ul> <li>Reference to CA Title 24, Pt 6: 2016 Building Energy Efficiency Standards</li> <li>Solar readiness</li> <li>[Voluntary] Outdoor Lighting Power Trade</li> <li>Backlight-Uplight-Glare (BUG) standards</li> </ul>	<ul> <li>EA Credit: Renewable Energy Production</li> <li>EA Credit Optimize Energy Efficiency</li> <li>EA Credit: Advanced Energy Metering</li> <li>EA Credit: Demand Energy Response</li> <li>EA Credit: Green Power and Carbon Offsets</li> <li>SS Credit: BUG Method</li> </ul>
Water Efficiency	<ul><li>Water conserving fixtures</li><li>Water conserving landscaping</li></ul>	<ul> <li>MWELO</li> <li>Grading &amp; paving</li> <li>Indoor submetering</li> <li>[Voluntary Non-Res] Low-Impact Development</li> </ul>	<ul> <li>WE Prereq: Outdoor Water Use Reduction</li> <li>WE Prereq &amp; Credit: Indoor Water Use Reduction</li> <li>WE Credit: Water Metering</li> <li>SS Credit: Rainwater Management</li> <li>Residential – Energy Star dishwashers and clothes washers</li> </ul>
Materials Conservation	<ul> <li>Environmental protection, pollution, and solid waste / Recycling materials storage</li> <li>Construction &amp; Demolition Waste – 80% diversion</li> </ul>	<ul> <li>Solid waste and recyclable materials storage space required</li> <li>Projects shall divert a minimum of 65%, or meet stricter local ordinance</li> </ul>	<ul> <li>MR Prereq: Storage and Collection of Recyclables</li> <li>MR Credit: Construction &amp; Demolition Waste Management</li> </ul>
Environmental Quality	<ul> <li>Construction Indoor Air Quality (IAQ) Management Plan</li> <li>Interior Paints &amp; Wood Finishes</li> </ul>	<ul> <li>Ventilation</li> <li>Low VOC materials</li> <li>Indoor Pollutant Control</li> </ul>	<ul> <li>EQ Credit: Construction Indoor Air Quality Management Plan</li> <li>EQ Credit: Construction Indoor Air Quality Management Plan</li> <li>EQ Credit: Low Emitting Materials</li> </ul>

# **Stakeholder Working Group Meetings**



<u>Meeting #1: Introduction</u> West Hollywood Green Building Code v. CALGreen & LEED

#### Meeting Themes:

- Water Management
- Solid Waste Management
- Open Space & Public Realm

Energy Usage Intensity is a performance metric to evaluate building energy performance, often expressed in annual energy usage per square feet.				
EUI = Annual Energy Usage [kBtu]				
	Area [sq	uare fe	et]	
	n Rating (EDR) is f a home using a s			s energy
		core of 1		s energy

<u>Meeting #2: Energy Modeling</u> The limits of solar and ZNE; areas for innovation

#### Meeting Themes:

- Energy
- Local Characteristics

#### Green Building Program Updated Framework Options

Approach	Code Change	Internal Checklist	3 <sup>rd</sup> Party Program
Green Building Standard	Zoning Code (Solar access, ventilation, daylight) Building Code (Battery-ready, microgrid, green roof, dual-plumbing, energy performance, lighting efficiency, air filters, water efficiency)	WeHo-specific checklist LEED GreenPoint Rated Enterprise Green Communities	LEED GreenPoint Rated Enterprise Green Communities
Applicability	All Buildings – New Construction and Major Remodels	All Buildings – New Construction and Major Remodels	All New Residential New Commercial and Major Remodel >25,000 sf
Administration	City Staff	City Staff or Consultant	3rd Party (GBCI, BIG, EGC)
Incentives	Code Flexibility Case-By-Case Consideration for Innovation Fee Walver Reduction	Code Flexibility Case-By-Case Consideration for Innovation Fee Walver Reduction	Code Flexibility Case-By-Case Consideration for Innovation Fee Walver Reduction Recognition
Estimated Cost	None	Registration (\$0) Certification (\$0.25/sf) Consultant (\$10,000)	Registration (\$1200-\$6000) Certification (\$0.50/sf) Consultant (\$25,000+)

<u>Meeting #3: Draft Framework Options</u> Code change, Internal Checklist, 3<sup>rd</sup> Party Program

#### Meeting Themes:

- Administration & Implementation
- Program Metrics
- Education & Awareness

# Feedback: Planning Commission & City Council

## **Planning Commission**

- Supportive of preliminary framework: CALGreen + local amendments
- Focus on green space, public realm, water management
- Cost/benefit of green building alternatives – inform opportunities and incentives
- Courtyard building designs fostering vegetated space, daylighting, ventilation

### **City Council**

- Supportive of preliminary framework: CALGreen + local amendments
- Focus on green space, local characteristics, water management, daylighting, sustainable roof elements
- Strengthen administration and verification processes
- Parking reduction as an incentive for increased green space

## **Green Building Program Framework**

## **New Format**

- Utilize existing state building code as basis for green building blocks
- Categorically align WeHo requirements with CALGreen
- Strikeout duplicate language in municipal code
- Keep existing green building measures that are locally specific and/or more stringent than state code
- Introduce new local green building requirements

Baseline	WEHO Mandatory Provisions	Mandatory Provisions
CALGREEN	CALGREEN	CALGREEN
Mandatory Provisions	Mandatory Provisions	Mandatory Provisions

WeHo High-Achieving

Measures

(Voluntary)

# **Green Building Program Recommendations**

Green Building Categories	Recommendation	Justification	Benefits
Site Planning & Design	<ul> <li>Flexibility in development standards for open space/green space</li> <li>Sustainable roof treatments</li> </ul>	<ul> <li>Flexibility in provision of open space, green space, and roof treatments allows for creativity in building and site design</li> </ul>	<ul> <li>Urban cooling, stormwater management</li> <li>GHG emissions reductions/air quality</li> <li>Promotes clean energy</li> </ul>
Energy Efficiency	<ul> <li>Defer to 2019 Title 24</li> <li>Energy Benchmarking readiness</li> <li>Strengthen commissioning &amp; inspection processes</li> </ul>	<ul> <li>Improves building performance</li> <li>Facilitates sustainable management of building operations</li> </ul>	<ul><li>GHG emissions reductions</li><li>Forward-looking</li><li>Builds resiliency</li></ul>
Water Efficiency	<ul> <li>High efficiency fixtures &amp; fittings</li> <li>Indoor &amp; outdoor submetering</li> <li>MWELO</li> </ul>	<ul> <li>Influences fixture selections</li> <li>Facilitates behavior change</li> <li>Requires climate-appropriate landscapes</li> </ul>	<ul> <li>Water use &amp; GHG emissions reductions</li> <li>Provides info on inefficiencies, use, leaks</li> <li>Urban cooling</li> </ul>
Materials Conservation	<ul> <li>Revised solid waste, recycling, organics collection requirements</li> </ul>	<ul> <li>Prepares new construction for upcoming state requirements on organics collection</li> </ul>	<ul><li>Increases waste diversion</li><li>Reduces GHG emissions</li></ul>
Environmental Quality	Follow existing State requirements	<ul> <li>State requirements are consistent with industry trends</li> </ul>	Public health, better indoor air quality
Other	<ul><li>Public Green Buildings (LEED Gold)</li><li>Update of WHMC Definition section</li></ul>	<ul> <li>Consistent w/other municipalities</li> <li>Precursor to City's ZNE facilities plan</li> <li>City leads by example</li> </ul>	<ul> <li>Reduced municipal GHG emissions</li> <li>Improved building operations &amp; performance</li> </ul>
High-Achieving Measures (Voluntary)	<ul> <li>Use of 3<sup>rd</sup> party certification</li> <li>NZE/Near Net Zero Energy or Passive House (PHI) Certification</li> <li>Greywater collection/piping systems (indoor/outdoor)</li> </ul>	<ul> <li>3<sup>rd</sup>-Party certs go above and beyond typical code requirements</li> <li>Premiums associated with NZE buildings and renewable energy</li> <li>Can be used to negotiate terms of development agreements</li> </ul>	<ul> <li>Promotes very high standards in green building within city</li> <li>Promotes use of alternative water sources &amp; GHG emissions reductions</li> <li>Allows flexible options for marketplace</li> <li>Builds resiliency</li> </ul>
Incentives	<ul><li>% Parking reduction</li><li>Additional unit</li><li>0.1 FAR</li></ul>	<ul> <li>Attractive high-value incentives provide significant cost savings or value to developer</li> </ul>	<ul> <li>Supports pursuit and achievement of higher environmental building standards</li> </ul>

# Site Planning & Design

Green Building Topic	Recommendation	Applicability	Relative to Earlier Feedback Received
Topics Remaining Unchanged	<ul> <li>Alternative Transportation</li> <li>Transportation Demand Management</li> <li>Construction Debris Control</li> <li>Stormwater diversion / Storm drains</li> <li>Parking lot landscaping for surface lots</li> <li>Permeable surfaces</li> </ul>	As stated in local code	<ul> <li>N/A: Continuation of best practices</li> </ul>
EV Charging Readiness	Add reference to existing language in GBO	<ul><li>New residential projects of 10+ units</li><li>All new nonresidential projects</li></ul>	<ul> <li>Readies the market for new technologies and industry trends</li> </ul>
Flexibility in Development Standards for Open Space & Green Space	<ul> <li>Allow for the transfer of private open space to common open space and vice versa (existing GB incentive)</li> <li>Allow 1:1 replacement of parking spaces with vegetated space at grade with minimum soil depth of three feet</li> <li>Allow all common/private open space on rooftop allowable if 30% of roof is vegetative</li> </ul>	<ul> <li>New Multi-family residential</li> <li>New Multi-family residential</li> <li>New Multi-family residential</li> </ul>	<ul> <li>Takes advantage of/Responds to WeHo's local characteristics</li> <li>Promotes flexibility in design of open space &amp; location of vegetated areas</li> </ul>
Sustainable Roof Treatments	<ul> <li>Projects shall install one of the following sustainable roof treatments:</li> <li>✓ PV (15% min roof area),</li> <li>✓ solar thermal (10% min roof area)</li> <li>✓ Vegetated roof (30% min roof area)</li> <li>✓ A combination of sustainable roof treatments may be proposed</li> </ul>	<ul> <li>All new projects with a gross floor area of 10,000 square feet or greater (or major remodels resulting in a gross floor area of 10,000 square feet or greater) [effective 1.1.2020]</li> </ul>	<ul> <li>Takes advantage of/Responds to WeHo's local characteristics</li> <li>Multiple benefits per each measure</li> <li>Promotes increased energy efficiency, clean energy sourcing, vegetation, stormwater management</li> </ul>

# **Energy Efficiency**

Green Building Topic	Recommendation	Applicability	<b>Relative to Earlier Feedback Received</b>
Topics Remaining Unchanged	<ul> <li>Energy Efficient Outdoor Lighting</li> <li>Defer to 2019 Title 24</li> <li>Energy Star qualified appliances</li> <li>Strengthen commissioning &amp; inspection processes</li> </ul>	<ul> <li>Nonresidential projects (as defined by Energy Code)</li> <li>Residential projects (as defined by Energy Code)</li> <li>All projects, as appropriate</li> </ul>	<ul> <li>2019 California Energy Code addresses daylighting, ventilation, lighting sensors, solar mandates on low-rise residential</li> </ul>
Energy Benchmarking Readiness	<ul> <li>Register to EnergySTAR Portfolio Manager</li> </ul>	<ul> <li>All new projects ≥ 20,000SF</li> </ul>	<ul> <li>Readies the market for new technologies and industry trends</li> </ul>

# Water Efficiency

Green Building Topic	Recommendation	Applicability	Relative to Earlier Feedback Received
Water-efficient Landscaping	<ul> <li>Follow requirements of State's Model Water Efficient Landscaping Ordinance</li> </ul>	<ul> <li>New landscapes of 500SF or more</li> <li>Existing landscapes of 2,500SF or more</li> </ul>	<ul> <li>Addresses outdoor water use management</li> <li>Responsive to drought conditions</li> <li>Promotes urban cooling</li> </ul>
Water Conserving Plumbing Fixtures	<ul> <li>Lower fixture maximums for kitchen faucets (1.5gpm), water closets (1.1gpf), metering faucets (0.2 gpc), showerheads (1.5gpm)</li> </ul>	<ul> <li>Nonresidential &amp; Residential projects (as defined by State Code)</li> </ul>	<ul><li>Promotes water efficiency</li><li>Responsive to drought conditions</li></ul>
Water Submetering	<ul> <li>Follow state requirements on indoor water submetering for rentals</li> <li>Require <u>outdoor</u> water submetering (based on CALGreen voluntary measures)</li> </ul>	<ul> <li>All new multifamily rental bldgs (indoor)</li> <li>New residential landscapes between 500SF - 5,000SF</li> <li>New nonresidential landscapes between 500SF - 1,000SF</li> </ul>	<ul> <li>Influences behavior by bringing awareness of individual water usage (indoor) or specific water used for landscaping (outdoor)</li> <li>Promotes water conservation</li> </ul>

## Materials Conservation & Green Public Buildings

Green Building Topic	Recommendation	Applicability	Relative to Earlier Feedback Received
Topics Remaining Unchanged	<ul> <li>Environmental protection, pollution, and solid waste</li> <li>Construction &amp; Demolition waste – 80% diversion</li> </ul>	As stated in local code	<ul> <li>N/A: Continuation of best practices</li> </ul>
Recycled Materials Storage Organics Collection Readiness	<ul> <li>Revised collection and storage requirements for solid waste, recycling, and organics</li> </ul>	<ul> <li>All residential types</li> <li>Nonresidential structures and uses within all zoning districts</li> </ul>	<ul> <li>City Council supportive of organics collection &amp; diverting more waste from landfill</li> </ul>
Green Public Buildings	<ul> <li>Minimum achievement of LEED Gold</li> <li>Use of an equivalent comprehensive green building program is permissible</li> </ul>	<ul> <li>All new public buildings or additions to public buildings of 10,000 square feet or more, or public building tenant improvement and major remodel projects of 10,000 square feet or more</li> <li>All other buildings receiving public funding from the City of West Hollywood encouraged to meet requirements</li> </ul>	City should lead by example

# **High-Achieving Measures**

Green Building Topic	Recommendation	Applicability	Relative to Earlier Feedback Received
Third-Party Rating System	<ul> <li>Use of Third-Party Green Building Rating System. Project must achieve one of the following:</li> <li>✓ LEED Gold or Platinum Certification</li> <li>✓ GreenPoint Rated Gold or Platinum Certification</li> <li>✓ Living Building Challenge Certification</li> </ul>	<ul> <li>All project types</li> </ul>	<ul> <li>General support for higher green building standards &amp; verifiable certification processes</li> </ul>
Highly Energy Efficient / Net Zero Energy Buildings	<ul> <li>Achieve CALGreen Tier 2 (mixed fuel or all-electric) for energy performance, or;</li> <li>Meet Passive House Certification</li> </ul>	<ul> <li>Nonresidential &amp; Residential projects (as defined by State Code)</li> <li>Nonresidential &amp; Residential projects</li> </ul>	<ul> <li>General support for higher green building standards</li> <li>City Council supportive of net zero energy/highly energy efficient buildings</li> <li>Encourages use of new technologies and industry trends</li> </ul>
Greywater reuse systems (indoor/outdoor)	<ul> <li>Install graywater collection system for onsite subsurface irrigation that entirely meets the site's landscape water requirements (Outdoor)</li> <li>Install a treated graywater system to supply water closets, urinals, and other allowed uses and demonstrate a minimum of 25-percent reduction in indoor water use (Indoor)</li> </ul>	<ul> <li>Projects w/new landscapes of at least 1,000SF</li> <li>Nonresidential &amp; Residential projects (as defined by State Code)</li> </ul>	<ul> <li>General support for higher green building standards</li> <li>Broad support for use of alternative water sources</li> <li>Encourages use of new technologies and industry trends</li> </ul>

Specific Plans & Development Agreements will be required to comply with one of the high-achieving measures

## Incentives

Green Building Topic	Recommendation	Applicability	Relative to Earlier Feedback Received
Incentive - Parking	<ul> <li>10-20% Reduction in Parking Requirements</li> </ul>	<ul> <li>New MF residential 10 units or less (20%)</li> <li>New MF residential 10+ units (10%)</li> <li>New Nonresidential structures (10%)</li> </ul>	<ul> <li>Value of incentives should be relative to cost of high thresholds</li> </ul>
Incentive - FAR	<ul> <li>Commercial projects or mixed-use projects on commercially-zoned lots may obtain a 0.1 FAR increase.</li> </ul>	<ul> <li>Commercial projects or mixed-use projects on commercially-zoned lots</li> </ul>	<ul> <li>Value of incentives should be relative to cost of high thresholds</li> </ul>
Incentive – Additional Unit	<ul> <li>Multi-family residential projects of three or more units may receive one additional residential unit; If unit is 700SF or less, no parking is required.</li> </ul>	<ul> <li>Multi-family residential projects of three or more units</li> </ul>	<ul> <li>Value of incentives should be relative to cost of high thresholds</li> </ul>

# **Concurrent & Related Initiatives**

- Citywide Green Infrastructure:
  - Urban Forestry Master Plan
  - Green Alleys
  - Permeable pavement at city facilities
  - Residential Parkway Design Requirements
- Climate Action Plan Update
- Urban Design Strategies for Building Typologies:
  - Courtyard Housing
  - Passive, Resilient, or Biophillic Design

# Implementation & Administration

- Outline and explain the overall steps for compliance with Green Building standards
  - Planning Review
  - Plan Check
  - Field Inspections
- Modify existing CALGreen checklists to include local WeHo measures
- Revise inspection card to integrate green building requirements, including standard procedures for HERs, commissioning, etc.
- Revamp and simplify green building webpage to host new program materials, procedures, required forms, and educational materials

## **Next Steps**

- Present final ordinance language to Long Range Subcommittee (March), Planning Commission (April), and City Council (May)
- Detail & refine the process for implementation and administration
- Design simple and elegant program collateral

# Explanation of Certain Applicability Terms

Term	Definition
Nonresidential projects (as defined by Energy Code)	<ul> <li>Newly constructed nonresidential buildings</li> <li>Includes additions or alterations of existing nonresidential buildings where the addition or alteration increases the building's conditioned area, volume, or size</li> </ul>
Residential projects (as defined by Energy Code)	<ul> <li>Any building that is of residential occupancy and is three stories or less in height (Low-rise)</li> <li>Any building that is of residential occupancy and is four stories or more in height (High-rise)*</li> <li>Includes additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size.</li> </ul>
Nonresidential projects (as defined by CALGreen)	<ul> <li>Newly constructed nonresidential buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission)</li> </ul>
Residential projects (as defined by CALGreen)	<ul> <li>Any building that is of residential occupancy and is three stories or less in height (Low-rise)</li> <li>Any building that is of residential occupancy and is four stories or more in height (High-rise)**</li> <li>Includes additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size.</li> </ul>
Mixed Occupancy	<ul> <li>When a building is designed and constructed for more than one type of occupancy (residential and nonresidential), the space for each occupancy shall meet the provisions of the Energy code applicable to that occupancy (certain exceptions may apply)</li> </ul>

\*High-rise residential buildings must follow the nonresidential requirements of the Energy Code, unless otherwise stated.

\*\*Newly constructed high-rise residential buildings of seven stories or greater must follow the nonresidential requirements of CALGreen, unless otherwise stated.