



Green Roofs

City Council
October 29th, 2018

The Mission of the Green Roof Review Task Force

“To develop recommended modifications, clarifications, and improvements to the initiative through a collaborative, consensus-based process that will honor the vote.”

Who is on the Task Force

Council Members

Jolon Clark

Mary Beth Susman

City Staff

Katrina Managan

Scott Prisco

Adam Hernandez

Jon Novick

Green Roof

Proponents

Brandon Rietheimer

Jennifer Bousselot

Andy Creath

Real Estate

Tami Door

Kathie Barstnar

Mark Windhager

Joe Havey

Grant Nelson

Amy Mayhew

Jeannie Renne-Malone

Additional Experts

Austin Krcmarik

Chris Parr

Christine Brinker

Jamaca Berman

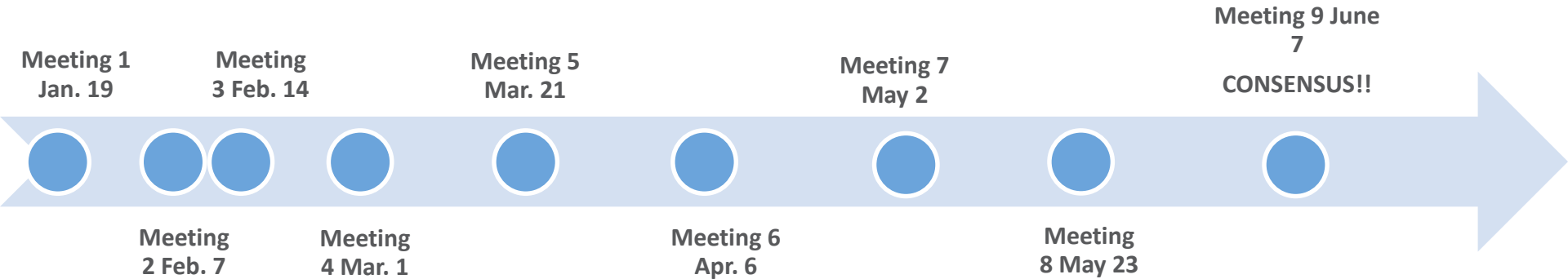
John Bringenberg

Lindsey Arell

Prem Sundharam

Tyler Smith

Task Force Meeting Timeline





Benefits

- Urban Heat Island
- Green Spaces
- Water and Storm Water Management
- Greenhouse Gas Emission Reductions



Green Building Ordinance - Compliance Options for New Buildings



Cool Roof Required* Plus ONE of the Following Options:



Green Roof / Green Space

Anywhere on building or zone lot

Green area equivalent to the lesser of:

- 10% of gross floor area of the building
- 60% of the total roof area
- Available roof space

Pay for Offsite Green

Payment to Green Building Fund of:

- \$50.00 per square foot of green space coverage required but not provided



Green Plus Solar or Energy Efficiency

Anywhere on building or zone lot, or off-site for solar

Green area equivalent to the lesser of:

- 3% gross floor area
- 18% of total roof area
- Available roof space

COMBINED WITH ONE OF THE FOLLOWING:

- 1) Onsite solar equiv. to the lesser of:
 - 7% of the floor area
 - 42% of total roof area
- 2) Offsite solar equivalent to the to onsite solar plus a minimum 2.5% energy cost savings from energy efficiency above code
- 3) 5% energy cost savings from energy efficiency above code



Solar or Energy Efficiency

Anywhere on building or zone lot, or off-site

Onsite solar or other renewable equiv. to your choice of:

- 70% of the total roof area
- 100% of annual average electricity used at the building
- Proof that the building is Net Zero

OR

Offsite solar equiv. to your choice of:

- 100% of building electricity use
- Amount equivalent to required onsite solar plus minimum 6% energy cost savings from energy

OR

Minimum 12% energy cost savings from energy efficiency above code efficiency above code



Certification

One of the following:

- LEED Certification, minimum gold
- Enterprise Green Communities certification
- National Green Building Standard ICC/ASHRAE 700
- Equivalent certification approved by the building official

* If the proposed roof is a character-defining roof, CPD may allow alternative roof materials

Green Building Ordinance - Compliance Options for Existing Buildings



At Roof Replacement: Cool Roof Required* plus ONE of the Following Options:



Green Roof / Green Space

Anywhere on building or zone lot

Green area equivalent to the least of:

- 2% of floor area of the building
- 18% of the total roof area
- Available roof space

Pay for Offsite Green

Payment to Green Building Fund of:

- \$50.00 per square foot of green space coverage required but not provided



Solar

Anywhere on building or zone lot

Onsite solar or other renewable equivalent to the least of:

- 5% of the floor area
- 42% of the total roof area
- An area equal to an amount required to provide 100% of building electricity use



Certification

One of the following:

- LEED Certification, minimum silver
- Enterprise Green Communities certification
- National Green Building Standard ICC/ASHRAE 700
- Equivalent certification approved by the building official



Energy Program

Enroll in a flexible energy program that includes various energy efficiency and renewable options designed to achieve similar greenhouse gas emission reductions as the on-site solar option.

- Comply with one of many pathways in the Energy Program within 5 years.
- Can enroll early to “bank” efficiency projects for next roof replacement

* If the roof is a character-defining roof, CPD may allow alternative roof materials