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# Green Roofs

City Council  
October 29<sup>th</sup>, 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.”

## Council Members

Jolon Clark

Mary Beth Susman

## City Staff

Katrina Managan

Scott Prisco

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Jon Novick

## Green Roof

### Proponents

Brandon Rietheimer

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### Real Estate

Tami Door

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Grant Nelson

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Jeannie Renne-Malone

## Additional Experts

Austin Krcmarik

Chris Parr

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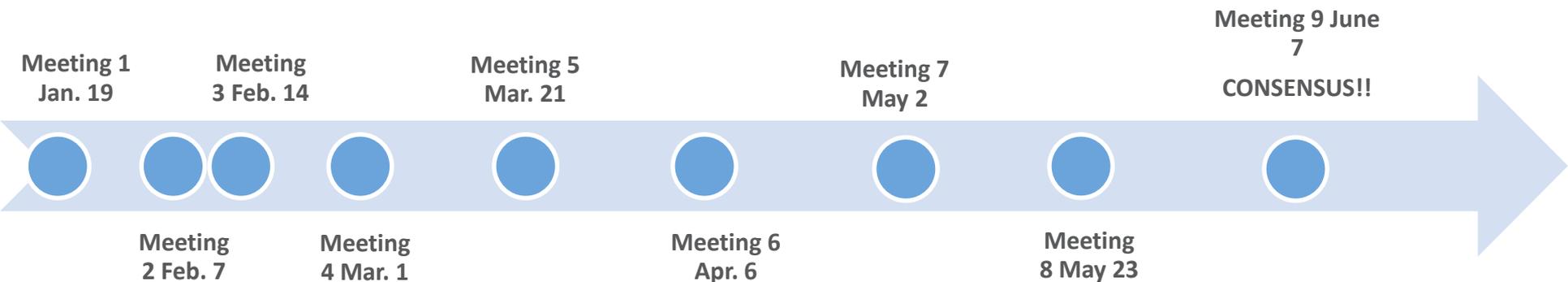
John Bringenberg

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 efficiency above code

### OR

Minimum 12% energy cost savings from energy 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