File No	160965	Committee Item N Board Item No					
COMMITTEE/BOARD OF SUPERVISORS AGENDA PACKET CONTENTS LIST							
Committee: Land Use and Transportation Date October 17, 2016							
Board of Su	Board of Supervisors Meeting Date <u>0 ctober 25, 2016</u>						
Cmte Boa	rd	·					
	Motion Resolution Ordinance Legislative Digest Budget and Legislative A Youth Commission Repol Introduction Form Department/Agency Cov Memorandum of Unders Grant Information Form Grant Budget Subcontract Budget Contract/Agreement Form 126 - Ethics Comm Award Letter Application Form 700 Vacancy Notice Information Sheet Public Correspondence	ort er Letter and/or Re tanding (MOU)	port				
OTHER (Use back side if additional space is needed)							
	Planning Commission Res CERA Determination Building Inspection Con Commission on the Environment	mission Recommend					

Completed by:Alisa SomeraDateOctober 20, 2016Completed by:Δliso \$0 meraDate0 chober 21,20%

[Planning, Green Building Codes - Better Roof Requirements, Including Living Roofs]

NOTE:

2

3 4

5

6

7 8

9

10

11

12

13 14

15

16

17

18

19

20 21

22

23

24

25

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code Section 101.1.

> **Unchanged Code text and uncodified text** are in plain Arial font. Additions to Codes are in single-underline italics Times New Roman font. Deletions to Codes are in strikethrough italies Times New Roman font. Board amendment additions are in double-underlined Arial font. Board amendment deletions are in strikethrough Arial font. Asterisks (* * * *) indicate the omission of unchanged Code subsections or parts of tables.

Be it ordained by the People of the City and County of San Francisco:

Section 1. CEQA Findings and General Plan Consistency Findings.

- (a) The Planning Department has determined that the actions contemplated in this ordinance comply with the California Environmental Quality Act (California Public Resources Code Sections 21000 et seq.). Said determination is on file with the Clerk of the Board of Supervisors in File No. 160965 and is incorporated herein by reference. The Board affirms this determination.
- (b) On September 15, 2016, the Planning Commission, in Resolution No. 19734, adopted findings that the actions contemplated in this ordinance are consistent, on balance, with the City's General Plan and eight priority policies of Planning Code Section 101.1. The

Board adopts these findings as its own. A copy of said Resolution is on file with the Clerk of the Board of Supervisors in File No. 160965, and is incorporated herein by reference.

(c) Pursuant to Planning Code Section 302, this Board finds that this Planning Code Amendment will serve the public necessity, convenience, and welfare for the reasons set forth in Planning Commission Resolution No. 19734 and the Board incorporates such reasons herein by reference.

Section 2. General Findings.

- (a) The California Building Standards Code is contained in Title 24 of the California Code of Regulations, and consists of several parts that are based upon model codes with amendments made by various State agencies. The California Green Building Standards Code, also known as the CALGreen Code, is Part 11 of Title 24 of the California Code of Regulations, and San Francisco has enacted the San Francisco Green Building Code as amendments to the California Green Building Standards Code.
- (b) Local jurisdictions are required to enforce the California Green Building Standards Code, but they may also enact more stringent standards when reasonably necessary because of local conditions caused by climate, geology, or topography.
- (c) The Building Inspection Commission considered the applicable sections of this ordinance at a duly noticed public hearing on September 21, 2016. The Commission on the Environment considered the applicable sections of this ordinance at a duly noticed public hearing on

Section 3. Findings Regarding Local Conditions Required by the California Health and Safety Code.

- (a) California Health & Safety Code Section 17958.7 provides that before making any changes or modifications to the California Green Building Standards Code and any other applicable provisions published by the State Building Standards Commission, the governing body must make an express finding that each such change or modification is reasonably necessary because of specified local conditions, and the findings must be filed with the State Building Standards Commission before the local changes or modifications go into effect.
- (b) The Board of Supervisors expressly declares that the following amendments to the San Francisco Green Building Code are reasonably necessary because of local climatic, topological, and geological conditions as listed below.
- (1) As a coastal city located on the tip of a peninsula, San Francisco is vulnerable to sea level rise, and human activities releasing greenhouse gases into the atmosphere cause increases in worldwide average temperature, which contribute to melting of glaciers and thermal expansion of ocean water resulting in rising sea levels.
- (2) San Francisco is already experiencing the repercussions of excessive CO₂ emissions as rising sea levels threaten the City's shoreline and infrastructure, have caused significant erosion, increased impacts to infrastructure during extreme tides, and have caused the City to expend funds to modify the sewer system.
- (3) Some people in San Francisco, such as the elderly, may be particularly vulnerable to higher temperatures resulting from climate changes.
- (4) Installing solar photovoltaic and thermal facilities will help San Francisco meet its goals under Board of Supervisors Ordinance No. 81-08 to have a greenhouse gas-free electric system by 2030 and to reduce greenhouse gas emissions Citywide to 40% below 1990 levels by 2025 and 80% below 1990 levels below by 2050.
- (5) Living roofs mitigate urban heat islands, improve building insulation, and moderate temperature near ventilation intake vents, each result contributing to reductions in

24.

building energy use and corresponding greenhouse gas emissions. Living roofs also reduce stormwater entering the sewer system, provide habitat supporting ecological systems, and enhance urban connections between humans and nature.

- (6) Living roofs and solar energy systems are compatible uses that can be combined on the same rooftop; the combination of the two systems can be complementary, improving the environmental benefits of each.
- (7) It is reasonably necessary to require building owners to take steps to reduce the energy consumed by inefficient building operations and produce renewable, low-carbon electricity, capture solar heat, or develop living roofs in order to reduce pollution, benefit biodiversity, improve resilience to climate change by reducing localized heat islands, and reduce the global warming effects of energy consumption.
- (6) Installing solar heating or solar energy systems benefits the health, welfare, and resiliency of San Francisco and its residents.
- (c) Requiring solar water heating, solar photovoltaics, and living roofs at the time of new construction is more cost-effective than installing the equipment after construction because workers are already on-site, permitting and administrative costs are lower, and it is more cost-effective to include such systems in existing construction financing. Based upon the findings of a cost-effectiveness study performed on the more stringent local standards contained in Board of Supervisors Ordinance No. 71-16, which established rooftop renewable energy requirements for certain new buildings, the Board of Supervisors determined that installing on-site renewable energy systems is cost-effective based on the analysis contained in Board of Supervisors File No. 160154, and saves more energy than the standards contained in the 2016 California Green Building Standards (CALGreen) Code (CCR Title 24, Part 11) and the 2016 California Energy Standards (CCR Title 24, Part 6). The proposed amendments to the 2016 San Francisco Green Building Code in this ordinance provide for

1	living roofs as an additional option for compliance, and do not constitute an additional energy
2	requirement beyond Board of Supervisors Ordinance No. 71-16.
3	
4	Section 4. The San Francisco Planning Code is hereby amended by adding
5	Section 149 and revising Section 307, to read as follows:
6	SEC. 149. BETTER ROOFS; LIVING ROOF ALTERNATIVE.
7	(a) Purpose. State law requires that certain new residential and nonresidential buildings set
8	aside a "solar ready" portion of the roof equal to 15% of the total roof area. The solar ready area
9	must be unshaded and free of obstructions, to allow that portion of the roof to be used for future
0	installation of solar energy or heating systems. The San Francisco Green Building Code requires a
1	building owner to actually use the solar ready area of the roof for solar energy or heating systems. The
2	purpose of this Section 149 is to allow the use of "living roofs" as an additional means of meeting some
3	or all of the Better Roof requirements of the Green Building Code, and thereby further promote the use
4	of rooftops to increase renewable energy resources, stormwater management, and biodiversity.
5	(b) Definitions. As used in this Section 149, the following capitalized terms shall have the
6.	following meanings:
7	Better Roof Requirements. The requirements of San Francisco Green Building Code
8	Sections 4.201.2 and 5.201.1.2, as amended.
9	Living Roof. The media for growing plants, as well as the set of related components installed
20	exterior to a facility's roofing membrane. "Living Roof" includes both "roof gardens" and
21	"landscaped roofs" as referenced in the California Building Code.
22	Living Roof Area. The area of media for growing plants installed for the purposes of
23	compliance with this Section, consistent with standards prepared and maintained by the Planning
24	Department for planning, installation, and maintenance of Living Roofs.
25	

1	Minimum Better Roof Area. An equivalent area to the Solar Ready Zone, as calculated under
2	CCR Title 24, Part 6, Section 110.10 and San Francisco Green Building Code Sections 4.201.2 and
3	5,201.1.2, as applicable.
4	Roof. All outside coverings of a building or structure, including the structural supports,
5	decking, and top layer exposed to the outside, at all levels of building, excluding roof area designated
6	for skylights, vehicle traffic, or heliport.
7	Solar Ready Zone. A section of the roof designated and reserved for the installation of a solar
8	electric or solar thermal system as required in certain new buildings by CCR Title 24, Part 6, Section
·9	110.10(b) through (e) and San Francisco Green Building Code Sections 4.201.2 and 5.201.1.2, as
10	applicable.
11	(c) Applicability. A project sponsor may use a Living Roof as an alternative means of meeting
12	some or all of the Better Roof requirements for any building that meets all four of the following
3	criteria:
14	(1) The building constitutes a Large Development Project or Small Development
15	Project under the Stormwater Management Ordinance (Public Works Code secs. 147-147.6);
16 :	(2) The building has a gross floor area of 2,000 square feet or more;
17	(3) The building has 10 or fewer occupied floors; and
18	(4) The project sponsor applies for a site permit or building permit on or after
19	January 1, 2017.
20	(d) Living Roof Requirements. Should a project sponsor use a Living Roof as a means of
21	meeting some or all of the Better Roof requirements, the sponsor shall submit to the Planning
22	Department for its review and approval a Living Roof design in which the sum of the areas of the
23	following features is equal to or greater than the Minimum Better Roof Area:
24 .	(1) Area of all solar photovoltaic collectors that meet the performance criteria of the
25	San Francisco Green Building Code (secs. 4.201.2(c)(1) and 5.201.1.2(b)(1)), as appropriate:

3	
4	
5	
6	-
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	

25

1

2

	(2) Ar	ea of all so	lar therm	al collect	ors that	meet the	perfor	mance	<u>criteria</u>	of the	San
<u>Francisco</u>	<u>Green Bui.</u>	<u>lding Code</u>	(secs. 4.2	201.2(c)(2) and 5	<u> 201.1.2(</u>	<i>b)(2)),</i> (as appr	<u>opriate;</u>	<u>and</u>	
	.				•			•			
j	(3) Ar	ea and Loc	cation of 1	Living Roc	of.						

(A) For the purpose of this Section 149, each square foot of Living Roof shall count as 0.5 square foot towards the Minimum Better Roof Area requirements; provided, however, that the actual square footage of the Living Roof shall be used to determine compliance with the Stormwater Management Ordinance. The Planning Department, after consulting with the San Francisco Public Utilities Commission and the Department of the Environment, shall adopt rules and regulations to implement these provisions and coordinate compliance with the Stormwater Management Ordinance.

(B) A Living Roof may be located within or outside of the Solar Ready Zone used for compliance with CCR Title 24, Part 6, Section 110.10. Where a Living Roof Area is located outside the Solar Ready Zone, the requirements of Section 110.10 for the solar zone shall otherwise still apply.

(e) Waiver. If the project sponsor demonstrates to the Zoning Administrator's satisfaction that it is physically infeasible to meet the Living Roof requirements as written for the project in question, the Zoning Administrator may, in his or her sole discretion and pursuant to the procedures set forth in Planning Code Section 307(h), grant partial relief from the requirements stated in subsection (d) where the design of the Better Roof is within 10% percent of any quantitative requirements. The requirements of CCR Title 24, Part 6, Section 110.10 for the solar zone shall remain applicable.

SEC. 307. OTHER POWERS AND DUTIES OF THE ZONING ADMINISTRATOR.

In addition to those specified in Sections 302 through 306, and Sections 316 through 316.6 of this Code, the Zoning Administrator shall have the following powers and duties in administration and enforcement of this Code.

section.

(h) Exceptions from Certain Specific Code Standards through Administrative Review.

The Zoning Administrator may allow complete or partial relief from certain standards specifically identified below, in Section 161, or elsewhere in this Code when modification of the standard would result in a project fulfilling the criteria set forth below and in the applicable

(1) Applicability.

- (A) Eastern Neighborhood Mixed Use Districts. For projects not subject to Section 329, relief may be provided for the following requirements: rear yard; non-residential open space; off-street loading requirements; and off-street parking limits up to the maximum quantities described in Section 151.1.
- (B) Dwelling Unit Exposure for Historic Buildings. Relief may also be provided for dwelling unit exposure requirements for buildings which are designated landmark buildings or contributory buildings within designated historic districts per Article 10 of this Code, any building designated Category I-IV per Article 11 of this Code, and/or buildings recorded with the State Historic Preservation Office as eligible for the California Register, when the following criteria are met: (i) literal enforcement of Section 140 would result in the material impairment of the historic resource; and (ii) the project complies with the Secretary of the Interior's Standards, (36 C.F.R. § 67.7 (2001)) and/or Section 1006 and any related Article 10 appendices of this Code. This administrative exception does not apply to new additions to historic buildings.
- (C) Residential Open Space for Historic Buildings. For a landmark building designated per Article 10 of this Code, a contributing building located within a designated historic district per Article 10, or any building designated Category I-IV per Article 11 of this Code, the provision of off-site publicly accessible open space, meeting the

requirements of Section 135(h), may be credited toward the residential usable open space requirement.

- (D) Conversion of Non-conforming Uses to Residential Uses. The Zoning Administrator may modify or waive dwelling unit exposure requirements, rear yard requirements, open space requirements for inner courts, and the substitution of off-site publicly accessible open space for required residential open space, provided:
- (i) That the residential use, whether dwelling units group housing, or SRO units, are principally permitted in the district or districts in which the project is located;
- (ii) That the nonconforming use is eliminated by such conversion, provided further that the structure is not enlarged, extended or moved to another location; and

 (iii) That the requirements of the Building Code, the Housing Code
- and other applicable portions of the Municipal Code are met.
- (E) Better Roofs; Living Roof Alternative. For projects subject to Section 149, the Zoning Administrator may waive portions of the applicable requirements as provided in Section 149(e).
- (2) Procedures. The review of a modification requested under this Section shall be conducted as part of, and incorporated into, a related building permit application or other required project authorizations; no additional fee shall be required. Under no circumstances shall such modification provide relief from any fee, including those related to usable open space pursuant to Sections 135(j) and 135.3(d). The provisions of this Subsection (h) shall not preclude such additional conditions as may be deemed necessary by the Zoning Administrator to further the purposes of this Section or other Sections of this Code.

* * * *

Section 6. The Green Building Code is hereby amended by revising Sections 4.201.2 and 5.201.1.2, to read as follows:

SEC. 4.201.2. RENEWABLE ENERGY AND BETTER ROOFS

- (a) Newly constructed Group R occupancy buildings which are less than or equal to 10 or fewer occupied floors stories above grade and which apply for a building permit on or after January 1, 2017 shall install solar photovoltaic systems and/or solar thermal systems in the solar zone required by California Code of Regulations (CCR), Title 24, Part 6, Section 110.10.
- (b) The minimum solar zone area for the project shall be calculated under Title 24, Part 6, Section 110.10(b) through (e), as applicable, and Residential Compliance Manual Chapter 7 or Nonresidential Compliance Manual Chapter 9, as applicable, except as provided below.
- (1) For single family residences, Exceptions 3 and 5 to Title 24, Part 6, Section 110.10(b) 1A may be applied in the calculation of the minimum solar zone area. Exceptions 1, 2, 4, 6, and 7 may not be applied in the calculation. *For single family residences* subject to Planning Code Section 149, Exception 3 may be applied in the calculation of the minimum solar zone area, and Exceptions 1, 2, 4, 5, 6, and 7 may not be applied in the calculation.
- (2) For Group R Occupancy buildings other than single family residences, Exceptions 3 and 5 to Title 24, Part 6, Section 110.10(b) 1B may be applied in the calculation of the minimum solar zone area. Exceptions 1, 2, and 4 may not be applied in the calculation. For Group R Occupancy buildings other than single family residences subject to Planning Code Section 149, Exception 5 may be applied in the calculation of the minimum solar zone area, and Exceptions 1, 2, 3, and 4 may not be applied in the calculation.
- (3) Buildings with a calculated minimum solar zone area of less than 150 contiguous square feet due to limited solar access under Exception 5 to Title 24, Part 6, Section 110.10(b)1A or Exception 3 to Title 24, Part 6, Section 110.10(b)1B are exempt from

14.

the solar energy requirements in this Section 4.201.2.

- (c) The sum of the areas occupied by solar photovoltaic collectors and/or solar thermal collectors must be equal to or greater than the solar zone area. The solar zone shall be located on the roof or overhang of the building, or on the roof or overhang of another structure located within 250 feet of the building or on covered parking installed with the building project. Solar photovoltaic systems and solar thermal systems shall be installed in accord with: all applicable State code requirements, including access, pathway, smoke ventilation, and spacing requirements specified in CCR Title 24, Part 9; all applicable local code requirements; manufacturer's specifications; and the following performance requirements:
- (1) Solar photovoltaic systems: The total nameplate capacity of photovoltaic collectors shall be at least 10 Watts DC per square foot of roof area allocated to the photovoltaic collectors.
- (2) Solar thermal systems: Single family residential solar domestic water heating systems shall be OG-300 System Certified by either the Solar Rating and Certification Corporation (SRCC) or the International Association of Plumbing and Mechanical Officials (IAPMO). Solar thermal systems installed in all Group R occupancy buildings other than single family residences shall use collectors with OG-100 Collector Certification by SRCC or IAPMO, shall be designed to generate annually at least 100 kBtu per square foot of roof area allocated to the solar thermal collectors. Systems with at least 500 square feet of collector area shall include a Btu meter installed on either the collector loop or potable water side of the solar thermal system.
- (d) Approval by the Planning Department of compliance with the Better Roof requirements, including the Living Roof alternative, as provided in Planning Code Section 149, shall be accepted for compliance with San Francisco Green Building Code Section 4.201.2(a) through (c). The

SEC. 5.201.1.2. RENEWABLE ENERGY AND BETTER ROOFS.

- (a) Newly constructed buildings of nonresidential occupancy which are 2000 square feet or greater in gross floor area, are <u>of 10 or fewer occupied floors</u> less than or equal to 10 stories above grade, and apply for a building permit on or after January 1, 2017 shall install solar photovoltaic systems and/or solar thermal systems in the solar zone required by California Title 24, Part 6 Section 110.10.
- (b) The required solar zone area for the project shall be calculated under California of Regulations (CCR), Title 24, Part 6, Section 110.10(b) through (e) and Nonresidential Compliance Manual Chapter 9, <u>as provided below: as applicable; provided, however that</u>
- (1) Buildings subject to Planning Code Section 149 may apply Exception 5 Exceptions 3 and 5 to Title 24, Part 6, Section 110.10(b)1B may be applied in the calculation of the minimum solar zone area and may not apply and Exceptions 1, 2, 3, and 4 shall not be applied in the calculation.
- (2) Buildings not subject to Planning Code Section 149 may apply Exceptions 3 and 5 in the calculation of the minimum solar zone area and may not apply Exceptions 1, 2, and 4 in the calculation. Such buildings Buildings with a calculated minimum solar zone area of less than 150 contiguous square feet due to limited solar access under Exception 3 are exempt from the solar energy requirements in this Section 5.201.2.
- (c) (b) The sum of the areas occupied by solar photovoltaic collectors and/or solar thermal collectors must be equal to or greater than the solar zone area. The solar zone shall be located on the roof or overhang of the building, or on the roof or overhang of another structure located within 250 feet of the building or on covered parking installed with the building project. Solar photovoltaic systems and solar thermal systems shall be installed in

accord with all applicable state and local code requirements, manufacturer's specifications, and the following performance requirements:

- (1) Solar photovoltaic systems: The total nameplate capacity of photovoltaic collectors shall be at least 10 Watts DC per square foot of roof area allocated to the photovoltaic collectors.
- (2) Solar thermal systems: Solar thermal systems installed to serve non-residential building occupancies shall use collectors with OG-100 Collector Certification by the Solar Rating and Certification Corporation (SRCC) or the International Association of Plumbing and Mechanical Officials (IAPMO), shall be designed to generate annually at least 100 kBtu per square foot of roof area allocated to the solar thermal collectors, and, for systems with at least 500 square feet of collector area, shall include a Btu meter installed on either the collector loop or potable water side of the solar thermal system.
- (d) Approval by the Planning Department of compliance with the Better Roof requirements, including the Living Roof alternative, as provided in Planning Code Section 149, shall be accepted for compliance with San Francisco Green Building Code Section 5.201.1.2(a) through (c). The requirements of CCR Title 24, Part 6, Section 110.10 for the solar zone shall still apply.

Section 7. Effective Date; Operative Date. This ordinance shall become effective 30 days after enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board of Supervisors overrides the Mayor's veto of the ordinance. This ordinance shall become operative on January 1, 2017, or upon <u>its</u> effective date, whichever is later.

Section 8. Transmittal to State Officials. The Clerk of the Board of Supervisors is hereby directed to transmit this ordinance, upon enactment, to the California Building Standards Commission for filing, pursuant to the applicable provisions of California law.

Section 9. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors intends to amend only those words, phrases, paragraphs, subsections, sections, articles, numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal Code that are explicitly shown in this ordinance as additions, deletions, Board amendment additions, and Board amendment deletions in accordance with the "Note" that appears under the official title of the ordinance.

APPROVED AS TO FORM: DENNIS J. HERRERA, City Attorney

By: THOMAS J. OVVEN

n:\legana\as2016\1700122\01143111.docx

REVISED LEGISLATIVE DIGEST

(10/17/2016, Amended in Committee)

[Planning, Green Building Codes - Better Roof Requirements, Including Living Roofs]

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code, Section 101.1.

Existing Law

State law requires that certain new residential and nonresidential buildings set aside a "solar ready" portion of the roof equal to 15% of the total roof area. The solar ready area must be unshaded and free of obstructions, to allow that portion of the roof to be used for future installation of solar energy or heating systems. Recently-adopted amendments to the San Francisco Green Building Code require a building owner to actually use the solar ready area of the roof for solar energy or heating systems ("the Better Roofs requirements").

Amendments to Current Law

The proposal is an ordinance that would amend the Planning Code and the Green Building Code to allow the use of "Living Roofs" as an additional means of meeting the Better Roofs requirements. A "Living Roof" is also referred to as a "roof garden" or "landscaped roof."

The proposed ordinance would set requirements, to be implemented by City Planning, for the planning and approval of Living Roofs for this purpose, and authorize the Zoning Administrator to grant minor modifications of the requirements where strict compliance was physically infeasible.

The proposed ordinance would apply to new buildings that: were subject to the City's Stormwater Management Ordinance; had a gross floor area of 2,000 or more square feet; had 10 or fewer occupied floors; and applied for a site permit or building permit after January 1, 2017.

n:\legana\as2016\1700122\01133528.docx



City Hall
Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

September 15, 2016

File No. 160965

Lisa Gibson Acting Environmental Review Officer Planning Department 1650 Mission Street, Ste. 400 San Francisco, CA 94103

Dear Ms. Gibson:

On September 6, 2016, Supervisor Wiener introduced the following proposed legislation:

File No. 160965

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code, Section 101.1.

This legislation is being transmitted to you for environmental review.

Angela Calvillo, Clerk of the Board

By: Alisa Somera, Legislative Deputy Director Land Use and Transportation Committee

Attachment

c: Joy Navarrete, Environmental Planning Jeanie Poling, Environmental Planning Not defined as a project under CEQA Guidelines Sections 15378 and 15060(c)(2) because it does not result in a physical change in the environment. Individual future projects under these proposed amendments would be subject to CEQA on a case-by-case basis.

Joy

Navarrete 3647

Digitally signed by Joy Navarrete
DN: cn=Joy Navarrete, o=Planning,
ou=Environmental Planning,
email=joy.navarrete@sfgov.org, c=U
Date: 2016.09.20 11:06:19-07'00'

October 7, 2016

Ms. Angela Calvillo, Clerk Honorable Supervisor Wiener Board of Supervisors City and County of San Francisco City Hall, Room 244 1 Dr. Carlton B. Goodlett Place San Francisco, CA 94102 1650 Mission St. Suite 400 San Francisco, CA 94103-2479

Reception: 415.558.6378

Fax: 415.558.6409

Planning Information: 415.558.6377

Re:

Transmittal of Planning Department Case Number 2016-010605PCA:

Better Roofs Ordinance

Board File No. 1700122 160965

Planning Commission Recommendation: Approval

Dear Ms. Calvillo and Supervisor Wiener,

On September 15, 2016, the Planning Commission conducted duly noticed public hearings at regularly scheduled meetings to consider the proposed Ordinance that would amend Planning Code Section 149, introduced by Supervisor Wiener. At the hearing the Planning Commission recommended approval.

The proposed amendments are not defined as a project under CEQA Guidelines Section 15060(c)(2) and 15378 because they do not result in a physical change in the environment.

Please find attached documents relating to the actions of the Commission. If you have any questions or require further information please do not hesitate to contact me.

Sincerely,

Aaron D. Starr

Manage of Legislative Affairs

cc:

Thomas J. Owen, Deputy City Attorney Andres Power, Aide to Supervisor Wiener Andrea Ausberry, Office of the Clerk of the Board

Attachments:

Planning Commission Resolution

Planning Department Executive Summary

www.sfplanning.org

Planning Commission Resolution No. 19734

HEARING DATE: SEPTEMBER 15, 2016

1650 Mission St. Suite 400 San Francisco; CA 94103-2479

Reception: 415.558.6378

Fax:

415.558.6409

Planning Information: 415.558.6377

Project Name:

Amendments Relating to Better Roof Requirements

Case Number:

2016-010605PCA [Board File No. 1700122]

Initiated by:

Supervisor Wiener / Introduced September 6, 2015

Staff Contact:

Anne Brask, Citywide Planning Division

anne.brask@sfgov.org, 415-575-9078

Reviewed by:

AnMarie Rodgers, Manager Legislative Affairs

anmarie.rodgers@sfgov.org, 415-558-6395

RECOMMENDING THAT THE BOARD OF SUPERVISORS ADOPT A PROPOSED ORDINANCE THAT WOULD AMEND PLANNING CODE SECTION 149 TO ESTABLISH REQUIREMENTS FOR CERTAIN NEW BUILDING CONSTRUCTION FACILITATING DEVELOPMENT OF RENEWABLE ENERGY FACILITIES AND LIVING ROOFS; SETTING AN OPERATIVE DATE OF JANUARY 1, 2017; PROVIDING FINDINGS AS LOCAL CONDITIONS PURSUANT TO THE CALIFORNIA HEALTH AND SAFETY CODE: AFFIRMING THE PLANNING DEPARTMENT'S DETERMINATION UNDER CALIFORNIA ENVIRONMENTAL QUALITY ACT: AND MAKING CONSISTENCY WITH THE GENERAL PLAN AND THE EIGHT PRIORITY POLICIES OF PLANNING CODE SECTION 101.1.

WHEREAS, on September 6, 2016, Supervisors Wiener introduced a proposed Ordinance under Board of Supervisors (hereinafter "Board") File Number 1700122, which would amend Sections 149 of the Planning Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs;

WHEREAS, The Planning Commission (hereinafter "Commission") conducted a duly noticed public hearing at a regularly scheduled meeting to consider the proposed Ordinance on September 15, 2016; and

WHEREAS, the proposed Ordinance has been determined to be categorically exempt from environmental review under the California Environmental Quality Act Section 15060(c); and

WHEREAS, the Planning Commission has heard and considered the testimony presented to it at the public hearing and has further considered written materials and oral testimony presented on behalf of Department staff and other interested parties; and

WHEREAS, all pertinent documents may be found in the files of the Department, as the custodian of records, at 1650 Mission Street, Suite 400, San Francisco; and

WHEREAS, the Planning Commission has reviewed the proposed Ordinance; and

MOVED, that the Planning Commission hereby recommends that the Board of Supervisors approve the proposed ordinance.

FINDINGS

Having reviewed the materials identified in the preamble above, and having heard all testimony and arguments, this Commission finds, concludes, and determines as follows:

- The proposed Ordinance will amend the Planning Code to include Better Roof Requirements for some new construction buildings.
- General Plan Compliance. The proposed amendments to the Planning Code are not addressed
 in the General Plan; the Commission finds that the proposed Ordinance is not inconsistent with
 the Objectives and Policies of the General Plan.
- 3. Planning Code Section 101 Findings. The proposed amendments to the Planning Code are consistent with the eight Priority Policies set forth in Section 101.1(b) of the Planning Code in that:
 - 1. That existing neighborhood-serving retail uses be preserved and enhanced and future opportunities for resident employment in and ownership of such businesses enhanced;
 - The proposed Ordinance would not have a negative impact on neighborhood serving retail uses and will not impact opportunities for resident employment in and ownership of neighborhood-serving retail.
 - 2. That existing housing and neighborhood character be conserved and protected in order to preserve the cultural and economic diversity of our neighborhoods;
 - The proposed Ordinance would not have a negative effect on housing or neighborhood character.
 - That the City's supply of affordable housing be preserved and enhanced;
 - The proposed Ordinance would not have an adverse effect on the City's supply of affordable housing.
 - That commuter traffic not impede MUNI transit service or overburden our streets or neighborhood parking;
 - The proposed Ordinance would not result in commuter traffic impeding MUNI transit service or overburdening the streets or neighborhood parking.
 - That a diverse economic base be maintained by protecting our industrial and service sectors from displacement due to commercial office development, and that future opportunities for resident employment and ownership in these sectors be enhanced;

The proposed Ordinance would not cause displacement of the industrial or service sectors due to office development, and future opportunities for resident employment or ownership in these sectors would not be impaired.

 That the City achieve the greatest possible preparedness to protect against injury and loss of life in an earthquake;

The proposed Ordinance would not have an impact on City's preparedness against injury and loss of life in an earthquake.

7. That the landmarks and historic buildings be preserved;

The proposed Ordinance would not have an impact on the City's Landmarks and historic buildings.

8. That our parks and open space and their access to sunlight and vistas be protected from development;

The proposed Ordinance would not have an impact on the City's parks and open space and their access to sunlight and vistas.

4. Planning Code Section 302 Findings. The Planning Commission finds from the facts presented that the public necessity, convenience and general welfare require the proposed amendments to the Planning Code as set forth in Section 302.

NOW THEREFORE BE IT RESOLVED that the Commission hereby recommends that the Board ADOPT the proposed Ordinance as described in this Resolution.

I hereby certify that the foregoing Resolution was adopted by the Commission at its meeting on September 15, 2016.

Jonas P. Jonin Commission Secretary

AYES:

Fong, Johnson, Moore, Hillis, Koppel

NOES:

None

ABSENT:

Richards

ADOPTED:

September 15, 2016

Executive Summary

Planning Code Text Amendment

HEARING DATE: SEPTEMBER 15, 2016

Project Name:

Better Roofs Ordinance

Case Number:

2016-010605PCA [Board File No. 1700122

Initiated by:

Supervisor Wiener / Introduced September 6, 2016

Staff Contact:

Anne Brask, Planner/Designer Citywide Division

anne.brask@sfgov.org, 415-575-9078

Reviewed by:

Jeff Joslin, Director of Current Planning

jeff.joslin@sfgov.org, 415-575-9117

Recommendation:

Recommend Approval

1650 Mission St. Suite 400 San Francisco, CA 94103-2479

Reception:

415.558.6378

Fax:

415.558.6409

Planning Information: 415.558.6377

PLANNING CODE AMENDMENT

The proposed Ordinance amends the Planning Code to establish standards for new building construction facilitating development of renewable energy facilities and living roofs.

The Way It Is Now:

Under existing state law, California's Title 24 Energy Standards require 15% of roof area on new small and mid-sized buildings to be "solar ready," which means the roof is unshaded by the proposed building itself, and free of obtrusions. This state law applies to all new residential and commercial buildings of 10 floors or less. In April 2016 a unanimous vote was passed by the Board of Supervisors that builds on this state law by requiring 15% of "solar ready" roof area to have solar actually installed.

The Way It Would Be:

In addition to the regulations above, the Better Roof Ordinance will include a living roof alternative to the solar requirement. With this proposal, between 15% and 30% of roof space on most new construction will incorporate solar, living (green) roofs, or a combination of both. The living roof option will allow developers to replace required solar with living roof at a rate of 2 square feet of living roof for every 1 square foot of solar.

BACKGROUND

A Brief History of California Title 24

The ordinance builds on existing California State building code which, since July 1, 2014, has required most new buildings to be design with a minimum area of roof space designated as "Solar Ready" if solar is not installed at the time of construction. The roof area designated as the Solar Ready zone must be designed to be free of obstructions and shading that could interfere with installation or performance of a future solar energy system.

The Better Roof ordinance requires the building designer to first calculate the Solar Ready area required under California Title 24 Part 6 Building Energy Standards. This area is equal to 15 percent of total roof

area for multifamily and non-residential buildings, and 250 square feet for single family homes. The ordinance requires that the Solar Ready zone be put to productive use by installing solar energy systems at time of construction.

A Brief History of San Francisco Living Roofs

Living roofs (also known as vegetated or green roofs) have been heavily researched by the Planning Department in recent history. In 2013, San Francisco hosted the National Green Roof Conference, Cities Alive. Co-sponsored by the Planning Department and the San Francisco Public Utilities Commission (SFPUC), the conference offered three days of presentations on policy, design, and technology related to living roofs. In preparation for the 2013 conference, SPUR formed the Green Roof Task Force to produce the "Greener and Better Roofs Roadmap" report recognizing that – in addition to being a prime location for renewable energy resources – roofs can host 'green' or 'living roofs' with many additional benefits such as reducing stormwater entering the sewer, reducing energy consumption, augmenting roof life, improving city views, enhancing biodiversity and habitat, sequestering carbon, capturing pollution, and connecting citizens with nature. The SPUR Roadmap provided recommended next steps for green roof progress in San Francisco, including the introduction of legislation.

After the Cities Alive Conference, the Planning Department formed a Living (Green) Roof team to continue research on San Francisco specific rooftops. The team led tours of existing rooftops in the city, conducted interviews of designers, analyzed other city efforts, and researched San Francisco's environmental aspects that make living roofs unique here. Our team worked with another taskforce of interested stakeholders and city agencies to understand differing priorities, roles, and best next steps for encouraging living roofs in San Francisco. The culmination of this information was crafted into a Living Roof Manual¹, Living Roof webpage², and a Living Roof map³ of San Francisco. This ongoing work since 2013 led to the opportunity to work with San Francisco Department of the Environment on a holistic Better Roof Ordinance.

ISSUES AND CONSIDERATIONS

These Technologies Are Cost Effective.

Department of Environment has completed cost effectiveness analysis of solar photovoltaics. ARUP Engineers performed cost effectiveness analysis of living roofs on behalf of the Planning Department and Environment. Both of these cost analyzes show that solar and green roofs are indeed cost effective.

To understand the implications of solar energy as a compliance option, the cost-effectiveness of meeting the proposed Better Roof requirement entirely with photovoltaics was studied. A variety of building types and uses were modeled, from single-family homes to high-rise office. The analysis assumed the building owner paid all costs and derived all benefits from the photovoltaic system. The solar financial analysis considered costs and benefits over a 25-year period. Costs included the one-time costs to design, purchase and install the photovoltaic system, as well as the ongoing costs of financing, operation,

 $^{^1\,}http://default.sfplanning.org/publications_reports/Living_Roof_Manual_Web-102815.pdf$

² http://sf-planning.org/san-francisco-living-roofs

³ http://sfgov.maps.arcgis.com/apps/OnePane/storytelling_basic/index.html?appid=1fe7486496ec45a397dea0254b96e546

maintenance and insurance. Benefits included the ongoing value of solar electricity generated (it was assumed that the solar electricity directly reduced the electricity purchased from the utility by the owner), and the net reduction to the owner's federal and state taxes owed.

The analysis shows that installing photovoltaics to comply with the proposed Better Roof ordinance is cost-effective for all building types with today's input values. The avoided emissions resulting from the clean electricity generated by photovoltaic systems is a benefit to the broader community that was not factored into the cost-effectiveness calculation. The aggregate impact of installing photovoltaics to minimally comply with the proposed Better Roof ordinance on all 200 major new construction projects in San Francisco Planning Department's project pipeline as of third quarter 2014 would be to avoid over 26,000 metric tons of carbon dioxide emissions per year.

ARUP engineers analyzed the cost-effectiveness of meeting the Better Roofs requirement entirely with a living roof instead of solar for the alternative compliance path. The analysis was conducted with a living roof that uses 6 inches of lightweight media with native and adapted plants and two building types of similar size that are good candidates for living roofs: medium commercial and small multifamily. The costs and benefits of the living roof were compared to the costs and benefits of a baseline membrane roof with cool white coating that is a requirement for prescriptive compliance with California Title 24 for these building types. Both the living roof and baseline were modeled as part of an overall building development package required to comply with San Francisco's Stormwater Management Ordinance.

Costs and benefits of the living roof over a 25-year period are presented as those net of the costs and benefits of the baseline roof. In addition to installation costs, recurring costs of maintenance, irrigation, and reroofing were evaluated. Benefits included the avoided one-time cost of installing stormwater management equipment that would be required if not for the living roof, as well as ongoing benefits of energy savings, carbon abatement, heat island mitigation, air quality improvement, noise abatement, habitat addition, productivity increase based on biophilic effect, job creating and increased real estate value. The methodology applied by ARUP was based in large part on prior work for the US General Services Administration. Living roof data from San Francisco was used in the financial analysis, and supplemented with national data when necessary. Local data were afforded greater weight in all calculations.

The analysis found that a living roof provides net financial benefit to the building owner, while providing significant additional benefit to the tenants, and the broader community. The largest cost of a living roof – the one-time installation cost – is largely offset by the avoided one-time stormwater management equipment costs that would be incurred with the baseline roof. Both of these one-time costs and benefits accrue directly to the building owner.

The largest potential benefits is added real estate value, which also accrues to the building owner. Added real estate value may be realized in the form of faster tenant recruitment and longer retention, risk reduction, higher rent, and increased net operating income (NOI) due to operating expense savings. However, even in the absence of these benefits, which are well documented, the living roof was found to be cost-neutral.

The figures from the cost benefit analysis show the net costs and net benefits of the living roof compared to the baseline roof for the range of the stakeholders in development: owner, owner & occupier, tenant, and the community. Excluding benefits to real estate value, benefit to the owner were found to offset the costs. The net impact is greater for an owner-occupied building in which the owner benefits from energy saving and biophilic effects.

Compliance with the proposed Better Roof ordinance via either a living roof or solar photovoltaics is cost-effective. The analyses showed that for both living roofs and photovoltaics, when all costs and benefits are combined and accrue over a 25-year period, the costs to the building owner are more than offset by the benefits. Cost-effectiveness can be expected to improve over time if the industry continues to trend toward lower system costs and higher energy production per unit.

There Is Precedent For These Types Of Regulation.

Since 2013, three California cities, Lancaster, Sebastopol, and Santa Monica, have adopted requirements to install a minimum amount of solar photovoltaic's on new buildings. These cities are each considerably less dense than San Francisco. With this Better Roof Ordinance, San Francisco would be the first major US city to require solar on new buildings.

Similarly, major U.S. citiscities including Chicago, Washington D.C., and Portland require living roofs on certain new buildings. Chicago had a three-year grant program that offered a subsidy of \$5,000 per project, in an effort to cool the city during the summer for urban heat island mitigation. Portland had a similar program for municipal buildings. France has also advanced a similar regulation requiring solar and/or living roofs, however it will not take effect until later in 2017.

Roofs Are An Undervalued Opportunity.

Rooftops are 30% of San Francisco's land area, and in a dense urban city, an untapped resource. The proposed ordinance will provide provide flexibility for the building designer, owner, and developer to choose the best combination of solar photovoltaic, solar water heating and living roof systems to maximize benefit based on location and building program. With the myriad of benefits that these technologies provide, the legislation would encourage a higher and better utilization of valuable rooftop space.

The Better Roofs Ordinance cumulatively mandates solar, but allows living roofs to be provided in lieu of, or in addition to, solar. The solar requirement made use of a pre-existing statutory requirement to preserve preserve 15% of the roof for solar, requiring solar to be installed in that required area. The Better Roofs Ordinance allows 30% of the roof as a living roof to meet this requirement. A project will be able to comply by meeting one or the other, or a blend of the two.

Future research for furthering the utilization of roofs may include

- Potential of 100% utility of rooftops
- · Requirements for alterations to existing building
- Better roof uses that include open space and urban agriculture

Uses Defined in the Planning Code.

In the Planning Code, Living Roof, Living Roof Area, and Minimum Better Roof Area are defined solely by their physical characteristics; aspects that are verifiable and have a clear and direct connection to the land use. The quality and detail of a living roof is outside of the Planning Department area of expertise. Our coordination with the San Francisco Public Utilities Commission is crucial in the success of living roofs. The Planning Department and SFPUC have created a strong foundation for continued teamwork to ensure quality review of Better Roof projects.

Working with the Stormwater Management Ordinance.

Review will remain the same for the Public Utilities Commission where responsibility and process will not change. The PUC will continue reviewing projects which are required to meet the Stromwater Management Ordinance (SMO). Living roofs are one of the Best Management Practices (BMPs) that is reviewed for compliance with the ordinance. SFPUC is not responsible for verifying the amount and location of Better Roof Area.

REQUIRED COMMISSION ACTION

The proposed Ordinance is before the Commission so that it may recommend adoption, rejection, or adoption with modifications to the Board of Supervisors.

RECOMMENDATION

The Department recommends that the Commission recommend *approval* of the proposed Ordinance and adopt the attached Draft Resolution to that effect.

BASIS FOR RECOMMENDATION

The Planning Department's strongly supports the Better Roofs requirements and Living Roof alternative as a way to enhance the utility of roofs in our city. San Francisco is known for its innovate stewardship and strong reputation for being a green, healthy, and sustainable city. The Planning Department has been at the forefront of living roof research specific to San Francisco for the past four years and we continue to update and track new technologies within this sector. By providing options for a Better Roof, the designer, developer, or owner is not forced into one use that may not be appropriate for their site or design.

As we know, in a dense urban environment, the roof becomes a valuable resource for land use opportunities and sustainable technology. The proposed Ordinance is a great place to start in thinking about how our rooftops can provide more for our neighborhoods. Future research may include the potential for urban agriculture, the inclusion of open space, and a combination of each of these uses to allow for a holistic better rooftop. Other options for the Ordinance could apply an iteration of the requirements to existing buildings undergoing alterations.

The Planning Department has worked very closely with our colleagues at the Department of the Environment and San Francisco Public Utilities Commission to ensure a successful implementation of the ordinance and will continue to look for areas to improve.

IMPLEMENTATION

The Department determined that this Ordinance will impact our current implementation procedures; however the proposed changes can be implemented without increasing permit costs or review time. The ordinance will impact our current implementation procedures in the following ways:

- The Better Roofs Ordinance will require planners to review the proposed plans for compliance with the rooftop area requirements. The applicant can choose to provide solar power on 15% of their rooftop space, living roof on 30% of their rooftop space, or a combination of the two to meet the Planning Code.
- Several SOP documents would have to be amended including additional language for PPAs.
- Planning would also take the lead in producing the Better Roof Project Guide and a ZA Bulletin for assistance with implementation.
 - o The Better Roof Project Guide will include: Living Roof Definition & Living Roof Manual reference; Review process; SMO and Non-Potable references; Roof definition; Roof design scenarios.

ENVIRONMENTAL REVIEW

The proposed amendments are not defined as a project under CEQA Guidelines Section 15060(c) and 15378 because they do not result in a physical change in the environment.

PUBLIC COMMENT

As of date of this report, the Department has received no public comment on the Better Roof legislation but has participated with a working group of interested stakeholders and city agencies, as well as outreach to building owners and developers on the legislation.

RECOMMENDATION:

Recommendation of Approval

Attachments:

Exhibit A:

Draft Planning Commission Resolution

Exhibit B:

Board of Supervisors File No. 1700122

BUILDING INSPECTION COMMISSION (BIC)

Department of Building Inspection Voice (415) 558-6164 - Fax (415) 558-6509 1660 Mission Street, San Francisco, California 94103-2414

September 23, 2016

Edwin M. Lee Mayor

Ms. Angela Calvillo Clerk of the Board

COMMISSION

Board of Supervisors, City Hall

Angus McCarthy

1 Dr. Carlton B. Goodlett Place, Room 244

President

San Francisco, CA 94102-4694

Kevin Clinch Gail Gilman John Konstin Frank Lee Debra Walker James Warshell Dear Ms. Calvillo:

Sonya Harris Secretary

RE: File No.160965

Tom C. Hui Director

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code. **Section 101.1.**

The Building Inspection Commission met and held a public hearing on September 21, 2016 regarding File No. 160965 on the proposed amendment to the San Francisco Planning Code and Green Building Code referenced above. The Commissioners voted unanimously to support this proposed amendment.

The Commissioners voted as follows:

President McCarthy

Yes

Commissioner Gilman

Yes

Commissioner Konstin

Yes

Commissioner Lee

Yes

Commissioner Walker

Yes

Should you have any questions, please do not hesitate to call me at 558-6164.

Sincerely.

Sonya Harris

Commission Secretary

1	[Support of Better Roof Requirements for Renewable Energy Facilities Ordinance File
2	Number: 160154]
3	
4	Resolution urging the Board of Supervisors and the Mayor to adopt File
5	Number 160154, an Ordinance amending the Green Building Code and the Environment
6	Code to establish requirements for certain new building construction facilitating
7	development of renewable energy facilities (Better Roofs Ordinance).
8	WHEREAS, The City and County of San Francisco has a duty to protect the natural
9	environment, the economy and the health of its citizens; and,
10	WHEREAS, Recognizing that buildings define the urban environment of San Francisco
11	and much of the community's environmental impact, San Francisco has created a
12	comprehensive set of policy initiatives to improve the performance of new and existing
13	buildings, which initiatives are regarded as among the most forward-thinking and effective
14	policies in the world; and,
15	WHEREAS, In the United States, buildings account for 70 percent of the electricity,
16	40 percent of the raw materials, and 12 percent of the potable water and in San Francisco,
17	56 percent of greenhouse-gas emissions are attributable to buildings; and,
18	WHEREAS, The City and County of San Francisco is the second most densely
19	populated City in the United States, and its rooftop space is a valuable resource that is
20	currently underutilized; and,
21	WHEREAS, The City and County of San Francisco has established a goal under Board
22	of Supervisors Ordinance No. 81-08 to have a greenhouse gas-free electric system in place
23	by the year 2030 and to reduce greenhouse gas emissions citywide to 40 percent below 1990
24	levels by the year 2025 and 80 percent by the year 2050; and,
25	

RESOLUTION FILE NO. 2016-04-COE

1	WHEREAS, The City and County of San Francisco has a particular interest in reducing
2	greenhouse gas emissions that contribute to global warming because the City faces imminent
3	effects of sea level rise; and,
4	WHEREAS, Installing solar electric systems to comply with the Better Roof Ordinance
5	on the 200 biggest projects in the development pipeline would avoid over 26,000 metric tons
6	of carbon dioxide emissions over 25 years of operation; and,
7	WHEREAS, The addition of solar panels to the energy portfolio in the City and County
8	of San Francisco contributes to the City's resiliency against natural disasters; and,
9	WHEREAS, Solar energy has become increasingly cost effective and economically
10	desirable since the cost to install solar electric systems has declined by 51 percent between
11 ·	2008 and 2014 and with the installation activities having supported job creation; and,
12	WHEREAS, Supervisor Scott Wiener introduced legislation that would amend the
13,	Green Building Code and the Environment Code to establish requirements for certain new
14	building construction facilitating the installation of rooftop solar electric and solar water heating
15	systems; now, therefore, be it,
16	RESOLVED, That the Commission on the Environment urges the Board of Supervisors
17	and the Mayor to adopt Supervisor Wiener's legislation to establish requirements for the
18	installation of solar energy systems on certain new building construction; and, be it,
19	FUTHER RESOLVED, That the Commission on the Environment recognizes that the
20	Better Roofs Ordinance may help the City and County of San Francisco meet its goal of a
21	greenhouse gas-free electric system by the year 2030.
22	I hereby certify that this Resolution was adopted at the Commission on the
23	Environment's Meeting on March 22, 2016.
24	

25

Anthony Valdez, Commission Affairs Manager 5-0 Approved Vote: Commissioners Omotalade, Hoyos, Stephenson, Wald and Wan Ayes: Noes: None Commissioner Bermejo Absent:

cc:

Tom C. Hui, S.E., Director Mayor Edwin M. Lee Supervisor Scott Wiener Board of Supervisors



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

MEMORANDUM

TO:

Tom Hui, Director, Department of Building Inspection Sonya Harris, Secretary, Building Inspection Commission

FROM:

Alisa Somera, Legislative Deputy Director Land Use and Transportation Committee

DATE:

September 15, 2016

SUBJECT:

LEGISLATION INTRODUCED

The Board of Supervisors' Land Use and Transportation Committee has received the following proposed legislation, introduced by Supervisor Wiener on September 6, 2016:

File No. 160965

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code, Section 101.1.

The proposed ordinance is being transmitted pursuant to Charter, Section D3.750-5, for public hearing and recommendation. It is pending before the Land Use and Transportation Committee and will be scheduled for hearing upon receipt of your response.

Please forward me the Commission's recommendation and reports at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102 or by email at: alisa.somera@sfgov.org.

c: William Strawn, Department of Building Inspection Carolyn Jayin, Department of Building Inspection



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

September 14, 2016

Planning Commission Attn: Jonas Ionin 1650 Mission Street, Ste. 400 San Francisco, CA 94103

Dear Commissioners:

On September 6, 2016, Supervisor Wiener introduced the following proposed legislation:

File No. 160965

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code, Section 101.1.

The proposed ordinance is being transmitted pursuant to Planning Code, Section 302(b), for public hearing and recommendation. The ordinance is pending before the Land Use and Transportation Committee and will be scheduled for hearing upon receipt of your response.

Angela Calvillo, Clerk of the Board

By: Alisa Somera, Legislative Deputy Director Land Use and Transportation Committee

c: John Rahaim, Director of Planning
Aaron Starr, Acting Manager of Legislative Affairs
Scott Sanchez, Zoning Administrator
Sarah Jones, Chief, Major Environmental Analysis
AnMarie Rodgers, Legislative Affairs
Jeanie Poling, Environmental Planning
Joy Navarrete, Environmental Planning



City Hall
Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

September 15, 2016

File No. 160965

Lisa Gibson Acting Environmental Review Officer Planning Department 1650 Mission Street, Ste. 400 San Francisco, CA 94103

Dear Ms. Gibson:

On September 6, 2016, Supervisor Wiener introduced the following proposed legislation:

File No. 160965

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code, Section 101.1.

This legislation is being transmitted to you for environmental review.

Angela Calvillo, Clerk of the Board

By: Alisa Somera, Legislative Deputy Director Land Use and Transportation Committee

Attachment

c: Joy Navarrete, Environmental Planning Jeanie Poling, Environmental Planning



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

MEMORANDUM

TO:

Deborah Raphael, Director, Department of the Environment

Mohammed Nuru, Director, Public Works

FROM:

Alisa Somera, Legislative Deputy Director Land Use and Transportation Committee

DATE:

September 15, 2016

SUBJECT: LEGISLATION INTRODUCED

The Board of Supervisors' Land Use and Transportation Committee has received the following proposed legislation, introduced by Supervisor Wiener on September 6, 2016:

File No. 160965

Ordinance amending the Planning Code and Green Building Code to establish requirements for certain new building construction facilitating development of renewable energy facilities and living roofs; setting an operative date of January 1, 2017; providing findings as to local conditions pursuant to the California Health and Safety Code; affirming the Planning Department's determination under the California Environmental Quality Act; and making findings of consistency with the General Plan, and the eight priority policies of Planning Code, Section 101.1.

If you have comments or reports to be included with the file, please forward them to me at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102 or by email at: alisa.somera@sfgov.org.

c: Guillermo Rodriguez, Department of the Environment Frank Lee, Public Works

Print Form

Introduction Form

Member of the Board of Supervisors or the Mayor.

All h SFP - 6 PH

Ĵ	: 53 Time stamp
1	or meeting dat

Thereby submit the following item for introduction (select only one).	
□ 1. For reference to Committee.	
An ordinance, resolution, motion, or charter amendment.	;
2. Request for next printed agenda without reference to Committee.	
☐ 3. Request for hearing on a subject matter at Committee.	•
☐ 4. Request for letter beginning "Supervisor	inquires"
☐ 5. City Attorney request.	
☐ 6. Call File No. from Committee.	•
7. Budget Analyst request (attach written motion).	
□ 8. Substitute Legislation File No.	
9. Request for Closed Session (attach written motion).	
☐ 10. Board to Sit as A Committee of the Whole.	
11. Question(s) submitted for Mayoral Appearance before the BOS on	
Please check the appropriate boxes. The proposed legislation should be forwarded to the following Small Business Commission Youth Commission Ethics Commission	
☐ Planning Commission ☐ Building Inspection Commission	
Note: For the Imperative Agenda (a resolution not on the printed agenda), use a Imperative	
Sponsor(s):	
Supervisor Wiener	
Subject:	
Planning, Green Building Codes - Better Roof Requirements, Including Living Roofs	
The text is listed below or attached:	·
Ordinance amending the Planning Code and Green Building Code to establish requirements for cer construction facilitating development of renewable energy facilities and living roofs; setting an ope January 1, 2017; providing findings as to local conditions pursuant to the California Health and Saf affirming the Planning Department's determination under the California Environmental Quality Ac findings of consistency with the General Plan and the eight priority policies of Planning Code Section	rative date of ety Code; t; and making
Signature of Sponsoring Supervisor:	
For Clerk's Use Only:	