

Let Oregon Lead
Proposal for Alternative Compliance Path
Within the Reach Code

Proposed Amendments for Oregon Reach Code Let Oregon Lead Committee

Our specific proposed edit of the draft code language (attached below) is intended to add Passive House as a compliance path for all types of buildings. The first section of text below shows what we add (**bold and underlined**) and delete (~~struck through~~), and the second section of text shows the ORC text as it would appear after changes (with all the same font).

102.4.12 Residential occupancies. **Residential, residential mixed-use, and high-rise buildings shall comply with the provisions of this code, or ICC700, or the Passive House Building Energy Standard , at the election of the building owner or design professional. Should the ICC 700 compliance path be elected, then** The provisions of ICC 700 are incorporated by reference and shall apply to the design and construction of buildings or portions thereof of Group R, including the building site. Such occupancies shall achieve the minimum environmental performance level as indicated in Table 302.1 in accordance with Section 303 of ICC 700 and as noted in Table 102.4.12. The minimum energy efficiency requirements shall be based on the performance path requirements of Table 102.4.12. ~~Buildings of mixed use, one of which is Group R, shall comply with Section 102.4.12.1.~~

~~Exception: High rise buildings as defined by the International Building Code shall comply with the provisions of this code or ICC 700.~~

TABLE 102.4.12 Residential Performance Requirements

Residential coverage issue	ICC 700 Requirement
Environmental Performance Level	Bronze, Silver, Gold or Emerald in accordance with Table 303 _a
Minimum energy efficiency requirements – Performance Path	Mandatory requirements of Section 701. Performance path requirements in accordance with Section 701.1.1 that exceed the baseline minimum performance required by the 2006 IECC by 30 percent in accordance with 702.2 (2) and a minimum of two practices from Section 704.

a. The environmental performance level in accordance with Table 303 of ICC 700 is to be determined by the *jurisdiction*.

~~102.4.12.1 Residential mixed use occupancies. The design and construction of residential portions of mixed use buildings shall comply with Section 102.4.12. The remainder of the building and the site on which the building is located shall comply with the provisions of this code. Where there are specific provisions provided in ICC 700 that regulate the design and construction of residential portions of the mixed occupancy, the provisions of ICC 700 shall apply.~~

~~Exception: High rise buildings as defined by the International Building Code shall comply with the provisions of this code or ICC 700.~~

Residential, residential mixed-use, and high-rise buildings which meet the Passive House Building Energy Standard shall be deemed to comply with the Reach Code if and only if verified by a nationally-accredited verification entity.

SECTION 302 JURISDICTIONAL REQUIREMENTS

302.1 Requirements determined by the jurisdiction. The jurisdiction shall indicate the following information in Table 302.1 for inclusion in its code adopting ordinance:

1. In accordance with Section 102.4.12, the jurisdiction shall indicate Bronze, Silver, Gold or Emerald as the minimum ICC 700 Environmental Performance Level for residential occupancies not regulated by this code by checking the corresponding box in Table 302.1. The minimum energy efficiency requirements shall be in accordance with Section 102.14.2. For residential mixed use occupancies, see Section 102.4.12.1.

2. The jurisdiction shall indicate whether ASHRAE 189.1 is applicable by selecting “Yes” or “No” in the optional compliance path in Table 302.1. Where “Yes” is selected, **Buildings shall comply with the provisions of this code or the provisions of ASHRAE 189.1, or the Passive House Building Energy Standard, at the election of the building owner or design professional. Should the ASHRAE 189.1 compliance path be elected** the administrative provisions of Chapter 1 of this code and the provisions of ASHRAE 189.1 listed in Chapter 12 shall apply and the remainder of this code shall not apply. ~~Residential buildings not with the scope of ASHRAE 189.1 shall comply with ICC 700 and the jurisdiction shall indicate in Table 302.1 the environmental performance level for such residential buildings.~~

Buildings which meet the Passive House Building Energy Standard shall be deemed to comply with the Reach Code if and only if verified by nationally-accredited verification entity.

Language after changes:

102.4.12 Residential occupancies. Residential, residential mixed-use, and high-rise buildings shall comply with the provisions of this code, or ICC700, or the Passive House Building Energy Standard, at the election of the building owner or design professional. Should the ICC 700 compliance path be elected, then the provisions of ICC 700 are incorporated by reference and shall apply to the design and construction of buildings or portions thereof of Group R, including the building site. Such occupancies shall achieve the minimum environmental performance level as indicated in Table 302.1 in accordance with Section 303 of ICC 700 and as noted in Table 102.4.12. The minimum energy efficiency requirements shall be based on the performance path requirements of Table 102.4.12.

Residential, residential mixed-use, and high-rise buildings which meet the Passive House Building Energy Standard shall be deemed to comply with the Reach Code if and only if verified by a nationally-accredited verification entity.

TABLE 102.4.12 Residential Performance Requirements

Residential coverage issue	ICC 700 Requirement
Environmental Performance Level	Bronze, Silver, Gold or Emerald in accordance with Table 303a
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SECTION 302 JURISDICTIONAL REQUIREMENTS

302.1 Requirements determined by the jurisdiction. The jurisdiction shall indicate the following information in Table 302.1 for inclusion in its code adopting ordinance: Buildings shall comply with the provisions of this code, the provisions of ASHRAE 189.1, or the Passive House Building Energy Standard, at the election of the building owner or design professional. Should the ASHRAE 189.1 compliance path be elected, the administrative provisions of Chapter 1 of this code and the provisions of ASHRAE 189.1 listed in Chapter 12 shall apply and the remainder of this code shall not apply.

Buildings which meet the Passive House Building Energy Standard shall be deemed to comply with the Reach Code if and only if verified by a nationally-accredited verification entity.

Endorsers List – Let Oregon Lead Campaign

Nonprofit organizations:

Citizens' Utility Board of Oregon
Climate Solutions
Ecobuilding Collaborative of Oregon
NW Ecobuilding Guild
NW Ecobuilding Guild Portland Chapter
NW Energy Coalition
Oregon Environmental Council
Passive House Alliance
Passive House Institute US
Passive House Northwest
Passive House Oregon
Proud Ground
Rocky Mountain Institute
VOIS Business Alliance

Businesses:

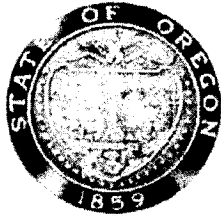
A Kitchen That Works
Alison Kwok Architect
Cityhouse Builders
Debar Architecture
DMS Architects
Drumheller Design Studios
Eagle Creek Natural Building
Eco Smart Building PC
Edmiston Design/Build
Ethan Beck Homes
Green Hammer
Green PDX
Hammer and Hand
JB Hammer Designs
Living Room Realtors
Lunabridge
Meadows Group Realtors
Nathan Good Architects
PDX Living
Root Design Build
Sarah Davis Design Services
Small Planet Workshop
Studio-E Architecture
Sustainable Solutions Unlimited
Swift Architecture
Ted Nickell Design
Tom Bender Architect
Wright On Sustainability
Year Round Comfort

Letters of support (not endorsers):

Architecture 2030
Oregon Global Warming Commission

Individual endorsers:

Heidi Byrne
Alex Boetzel
Robin Cash
Tad Everhart
Glen Haupt
Kent Hegsted
Mitzi Kugler
Robert Kugler
Dylan Lamar
Jeff Law
Devin Moeller
Andrew Morphis
Richard Nelson
Jeremy Rosenbloom
Shane Scribner
Win Swafford
Jeffrey Tufenkian
Jeffrey Ward



OREGON GLOBAL WARMING COMMISSION

Mailing Address: 625 Marion Street NE, Salem, OR, 97301

Email: Oregon.GWC@state.or.us

Toll-Free in Oregon: 1-800-221-8035

Web: <http://www.keeptoregoncool.org>

January 19, 2011

Cory Streisinger, Director
Department of Consumer and Business Affairs
Labor and Industries Building
350 Winter Street NE, Room 200
PO Box 14480
Salem, OR 97309

Dear Director Streisinger:

I understand the Reach Code Advisory Committee established by SB 79 is meeting to advise you and the Building Code Division on adoption of the Reach Building Code authorized by that legislation.

In parallel, the Oregon Global Warming Commission established by the Legislature in 2007 developed and adopted, in October of last year, its *Roadmap to 2020* as a guide for achieving Oregon's adopted 2020 greenhouse gas (GHG) emissions reduction goal of 10% below 1990 levels. That is roughly equal to 30% below estimated 2010 emissions levels.

While the Commission language does not specify the Reach Code, it clearly intends that the State should use this and other energy efficiency strategies as the foundation for reducing emissions associated with building energy consumption. One Key Recommendation and two Energy Recommendations in the adopted Roadmap speak to this point, and will be useful to you and the Committee in designing the Reach Code (language attached; the full Roadmap is accessible on the Commission's website: www.KeepOregonCool.org).

The Commission did specify (*Recommendation E-13: Incent High Performance Buildings*) that new building designs should aim for life cycle GHG emissions reductions of 80%, a level that is in line with the energy reduction expectations possible with the Passive House Building Energy standard recommended by other stakeholders as appropriate for the Reach Code. Without purporting to speak for the full Commission, I am comfortable supporting, as Chair, such a standard. I hope the Reach Code Committee and the Department act to put the State's new building stock on the pathway our Commission has charted out.

Thank you for your consideration of these recommendations, which I request be passed along to the Reach Code Committee.

Sincerely,

Angus Duncan, Chair
Oregon Global Warming Commission

Cc: Aeron Teverbaugh

Key Action-2: Energy Efficiency

Develop and implement new standards, codes and incentives to address highly effective yet hard to deliver energy efficiency measures including but not limited to: appliance and lighting codes and standards; a retrofit building energy efficiency code; commercial building commissioning; rental housing codes; utility investment in energy efficiency; and incentives for high performance buildings.

E-2: Align Building Code with GHG Goals: Oregon building and equipment energy codes should be aligned with its GHG reduction goals over a planning horizon of > 20 years to allow households and businesses to plan and budget with confidence.

E-13: Incent High Performance Buildings: Oregon should set a standard for high performance buildings that meet a goal of reducing life-cycle building related GHG emissions by 80 percent from the current baseline and provide a financial incentive (no property tax payments for 20 years?) for the first 1000 High Performance residences commissioned in the State; and the first 100 High Performance commercial structures.



January 26, 2011

City of Portland
Portland, Oregon

To Whom It May Concern:

Architecture 2030 fully supports the sections of the City of Portland and Multnomah County's Climate Action Plan 2009 that include the "2030 Objective" of achieving zero net greenhouse gas emissions in all new buildings and homes by 2030, as well as the call to "participate actively in the process to revise the Oregon building code to codify the performance targets of Architecture 2030" as its first "Action to be completed before 2012."

Sincerely,

Edward Mazria AIA
Founder and Executive Director
Architecture 2030