

Building Performance Standards Rulemaking Advisory Committee Meeting February 21, 2024



OREGON
DEPARTMENT OF
ENERGY

Today's Agenda

- I. **Introductions / Kickoff**
- II. **Bill / BPS Overview**
- III. **Draft Charter**
- IV. **ASHRAE Standard 100 and Rule Structure**
- V. **RAC Meeting Schedule, Order, Frequency**
- VI. **RAC Meeting Procedures**
- VII. **Wrap Up and Next Steps**

HOUSE BILL 3409

82nd OREGON LEGISLATIVE ASSEMBLY--2023 Regular Session

Enrolled House Bill 3409

Sponsored by Representatives RAYFIELD, MARSH, PHAM K, Senators DEMBROW, LIEBER; Representatives ANDERSEN, BOWMAN, CHAICHI, DEXTER, GAMBA, GRAYBER, HARTMAN, HOLVEY, HUDSON, KROPP, LEVY E, MCLAIN, NELSON, NERON, NGUYEN H, NOSSE, REYNOLDS, SOSA, TRAN, WALTERS, Senators CAMPOS, MANNING JR, PATTERSON, SOLLMAN

CHAPTER

AN ACT

Relating to climate; creating new provisions; amending ORS 352.823, 468A.210, 468A.215, 468A.220, 468A.225, 468A.230, 468A.235, 468A.240, 468A.245, 468A.250, 468A.255, 468A.260, 469.754, 469.756 and 530.050 and sections 1 and 5, chapter 655, Oregon Laws 2019, and sections 2, 10, 14, 17, 21, 23, 24 and 29, chapter 86, Oregon Laws 2022; and declaring an emergency.

Be It Enacted by the People of the State of Oregon:

DESIGNATED STATE AGENCY PROGRAMS FOR ENERGY EFFICIENCY IN BUILDINGS

SECTION 1. (1) The Legislative Assembly finds that:

(a) Energy consumption in residential and commercial buildings accounted for 34 percent of annual greenhouse gas emissions in this state in 2021, according to the Department of Environmental Quality;

(b) Space and water heating account for 64 percent of an average residential building's energy use;

(c) Heat pumps provide both heating and cooling benefits that keep people safe during extreme weather events that are becoming more frequent and more intense as a consequence of climate change;

(d) Electric heat pumps can provide up to three times more heat energy than the electrical energy the heat pumps consume, which makes heat pumps the most energy efficient space heating option available in the market;

(e) Upgrading space and water heating appliances with contemporary heat pump technologies can help people to save money on household energy bills;

(f) Existing and forthcoming state and federal incentive programs will assist in energy efficiency improvements in homes and buildings, including adoption of energy efficient heating and cooling appliances;

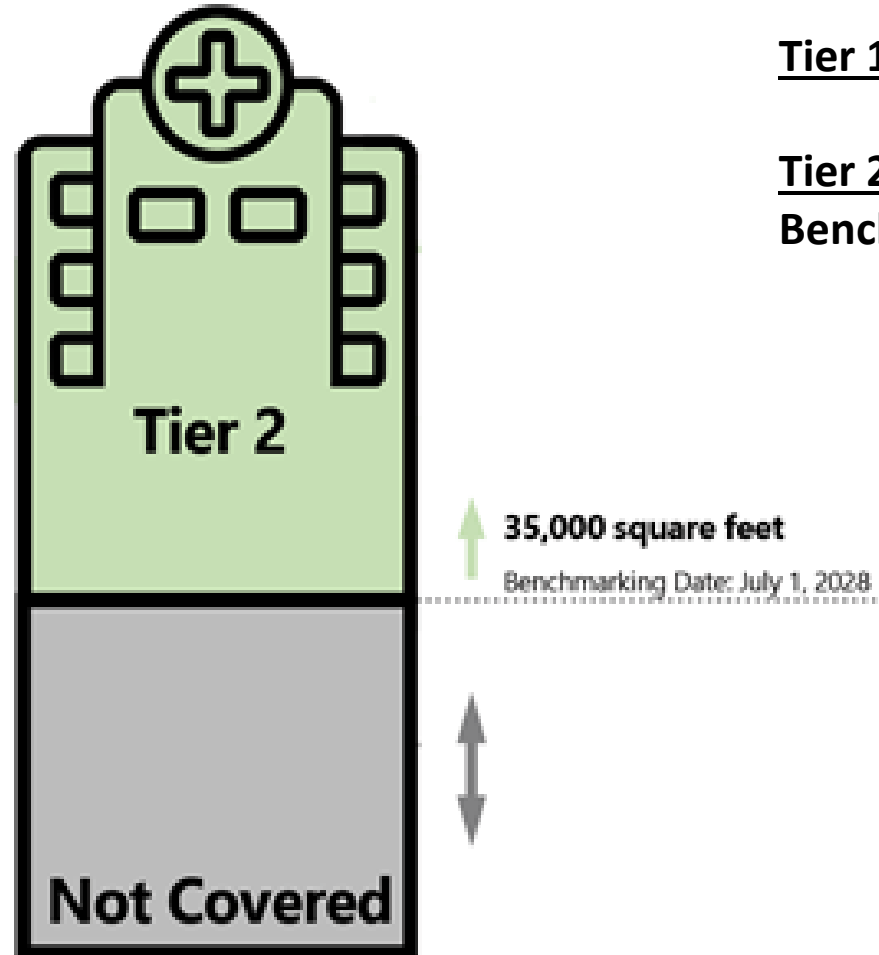
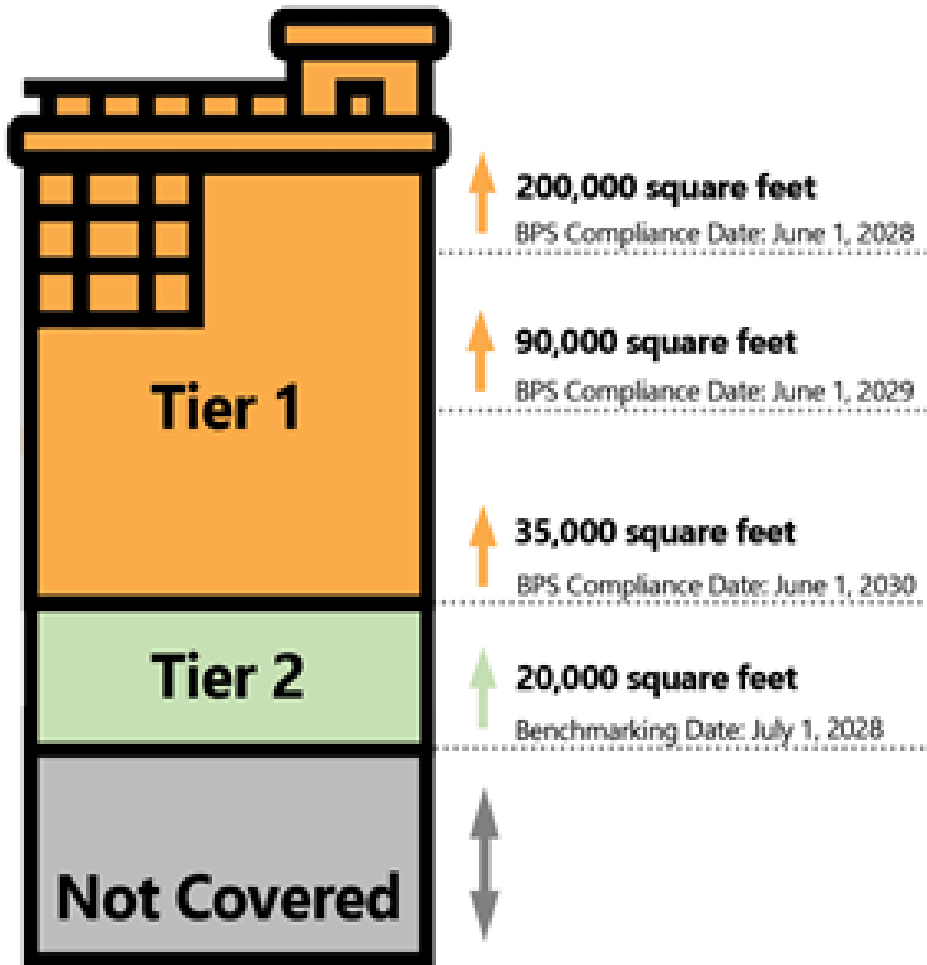
(g) Many residents of this state suffer from disproportionately high energy burdens, and environmental justice communities face greater barriers to purchasing and installing heat pumps and other energy efficient appliances; and

- BPS is part of HB 3409 from the 2023 Legislative Session
- This policy addresses energy use and emissions from existing commercial buildings, which account for nearly 20% of energy use in Oregon.
- It will require many large commercial buildings to enhance energy management practices and implement efficiency measures to meet energy use targets and will be modeled after ASHRAE Standard 100.
- Will be administered by ODOE
- Modeled after Washington state program

BUILDING PERFORMANCE STANDARDS - SCOPE

**Commercial (Non-Residential),
Hotels, and Motels**

**Multifamily Residential, Hospitals, Schools,
Dormitories, and University Buildings**



Tier 1 = BPS Compliance

**Tier 2 = Energy
Benchmarking / Reporting**

DRAFT CHARTER REVIEW

*(refer to draft charter document, please review
and comment by March 1 COB)*

BPS RULE STRUCTURE

- ODOE's plan is for rules to follow the same general structure as ASHRAE Standard 100-2024
- Similar to Washington State WAC 194-50
<https://apps.leg.wa.gov/wac/default.aspx?cite=194-50>
- Some chapters and areas will be straightforward and noncontroversial, while others will be more involved and require more discussion

BPS RULE STRUCTURE

ASHRAE 100-2024 Structure:

(ASHRAE 100-2024 is on Sharepoint and available for RAC review)



ANSI/ASHRAE/IES Standard 100-2024
(Supersedes ANSI/ASHRAE/IES Standard 100-2018)
Includes ANSI/ASHRAE/IES addenda listed in Appendix P


Energy and Emissions Building Performance Standard for Existing Buildings


See Informative Appendix P for approval dates by ASHRAE, the Illuminating Engineering Society, and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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 PDF includes hyperlinks for convenient navigation. Click on a reference to a section, table, figure, or equation to jump to its location. Return to the previous page via the bookmark menu.

 Includes online access to Jurisdiction-Specific Methodologies



- ANSI/ASHRAE/IES Standard 100-2024
 - Contents
 - Foreword
 - + 1. Purpose
 - 2. Scope
 - + 3. Definitions
 - + 4. Compliance Requirements
 - + 5. Energy and Emissions Management Plan
 - + 6. Operations and Maintenance Requirements
 - + 7. Energy Use and Greenhouse Gas Emissions Analysis and Target Requirements
 - + 8. Energy Audit with Decarbonization Assessment Requirements
 - + 9. Implementation and Verification Requirements
 - + 10. Residential Buildings and Dwelling Units
 - 11. References
 - Normative Appendix A: Forms

BPS RULE STRUCTURE

WA Example:

Chapter 194-50 WAC

WASHINGTON STATE DEPARTMENT OF COMMERCE ADOPTION AND AMENDMENT OF ASHRAE STANDARD 100, 2018

WAC Sections

HTML	PDF	194-50-001	Foreword.
HTML	PDF	194-50-010	ASHRAE Standard 100, 2018—Section 1—Purpose.
HTML	PDF	194-50-020	ASHRAE Standard 100, 2018—Section 2—Scope.
HTML	PDF	194-50-030	ASHRAE Standard 100, 2018—Section 3—Definitions.
HTML	PDF	194-50-040	ASHRAE Standard 100, 2018—Section 4—Compliance requirements.
HTML	PDF	194-50-050	ASHRAE Standard 100, 2018—Section 5—Energy management plan.
HTML	PDF	194-50-060	ASHRAE Standard 100, 2018—Section 6—Operations and maintenance requirements.
HTML	PDF	194-50-070	ASHRAE Standard 100, 2018—Section 7—Energy use analysis and target requirements.
HTML	PDF	194-50-080	ASHRAE Standard 100, 2018—Section 8—Energy Audit Requirements.
HTML	PDF	194-50-090	ASHRAE Standard 100, 2018—Section 9—Implementation and verification requirements.
HTML	PDF	194-50-110	ASHRAE Standard 100, 2018—Section 11—References.
HTML	PDF	194-50-120	Normative Annex C Forms.
HTML	PDF	194-50-130	Normative Annex L—Operations and maintenance implementation.
HTML	PDF	194-50-140	Normative Annex X—Investment criteria—This is a normative annex and is part of the Tier 1 covered building requirements of this standard.
HTML	PDF	194-50-150	Normative Annex Z—Washington state Tier 1 covered buildings reporting requirements—This is a normative annex and is part of the Tier 1 covered building requirements of this standard.
HTML	PDF	194-50-160	Normative Annex Y—Washington state Tier 2 covered buildings reporting requirements—This is a normative annex and is part of the Tier 2 covered building requirements of this standard.

BPS RAC MEETING SCHEDULE

DRAFT SCHEDULE REVIEW

(refer to draft schedule chart)

RAC MEETING PROCEDURES

For Discussion:

- Primary vs Alternate representatives
- RAC-only meetings vs RAC + Public meetings
- RAC vs public meeting phasing
- Full RAC meetings vs working groups based on certain topics

WRAP UP

For Discussion:

- Questions
- Comments
- Concerns
- Additional considerations for ODOE?



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Thank You Questions / Comments?

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<https://www.oregon.gov/energy/save-energy/Pages/BPS.aspx>

BPS PROGRAM TIMELINE – KEY DATES (for reference)

