# **REBuilding Task Force**

May 31, 2022

3:00-5:00pm





# Welcome, Roll Call, and Agenda Review

#### **AGENDA**

- 3:00 Welcome and Agenda Review
- 3:10 Baseline: Where the Building Sector is Today
- 3:40 National Landscape on Building Decarbonization Policies: Examples in other States
- 4:15 Task Force Discussion: What are the possible policy areas for Oregon?
- 4:55- Next Steps and Adjourn

**Actions**: No Task Force Actions Today

<u>Meeting Purpose:</u> Understand the baseline and Oregon building sector today, decarbonization policies in other states, and begin to think about possible policy areas for Oregon

#### PARTICIPATION TIPS

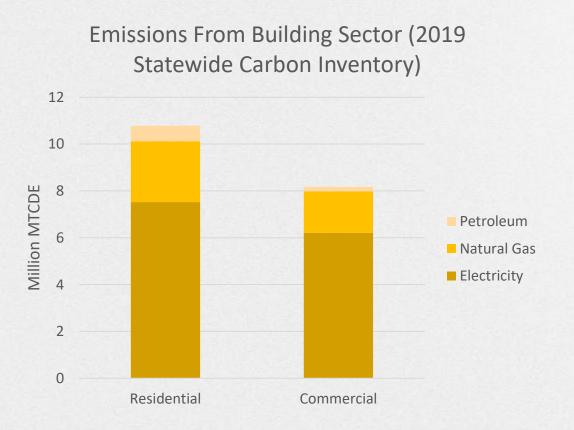
- Meeting is being livestreamed and will be posted on the Oregon State Legislature Website
- "Raise your hand" to get in the queue to speak or press \*5 on your phone
- Press \*6 to unmute on your phone.
- Take breaks as needed.
- Email host with technical issues (<u>Beth.Reiley@oregonlegislature.gov</u>)
- Provide comments verbally rather than chat
- Meeting information: <a href="https://olis.oregonlegislature.gov/liz/202111/Committees/JTFREB/Overview">https://olis.oregonlegislature.gov/liz/202111/Committees/JTFREB/Overview</a>

#### **DISCUSSION GUIDELINES**

- Honor the agenda
- Seek to hear from everyone (share the air)
- Focus on interests and values, not positions
- Assume and practice good intent
- Listen to understand
- Be hard on the issues, soft on the people
- Sit in each other's shoes and practice acknowledgement

# Baseline: the Building Sector Today

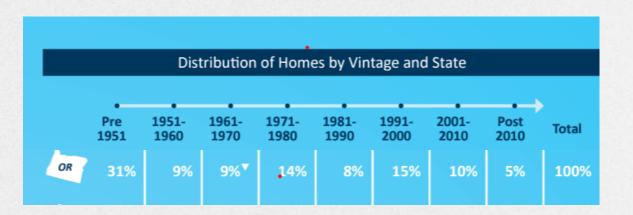
#### **Building Sector Carbon Emissions**

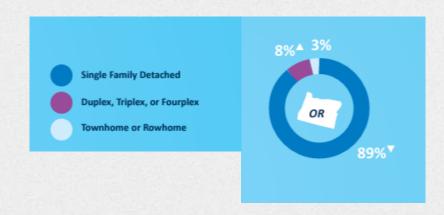


- What does this tell us?
   Provides a relative comparison of both:
  - emissions from residential and commercial buildings in Oregon
  - 2. emissions from end uses in buildings

Source: Oregon DEQ Carbon Inventory

# **Building Stock Characteristics**





Source: NEEA RBSA for Single Family Residential

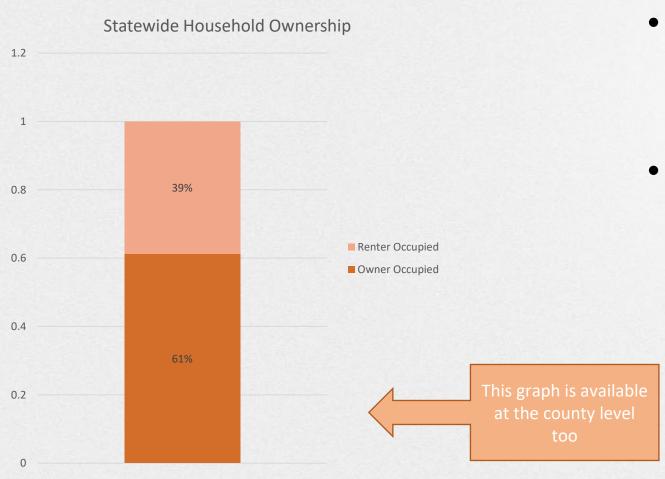
#### What does this tell us?

- Many non-multifamily residences are single family detached.
- Over 85% of Oregon's singlefamily residences were built prior to 2000 (before the prevalence of energy codes)

#### Why can this matter?

 Older buildings typically consume more energy than newer ones and can have significant barriers to energy upgrades.

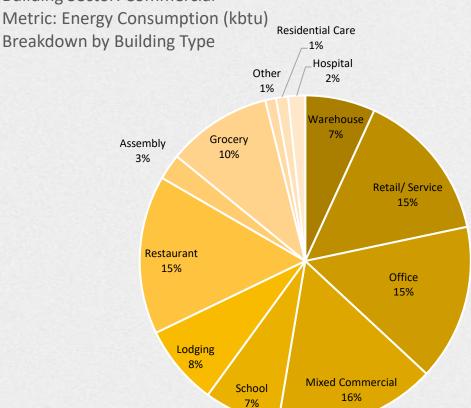
# Building Stock Characteristics (ctd.)



- What does this tell us?
  - Residential ownership status across the state (also available at the county level).
- Why can this matter?
  - Split incentives in renter occupied building make energy improvements more complicated. Jurisdictions with high proportion of rental units should consider strategies targeted at renters.

# Building Stock Characteristics (ctd.)

**Building Sector: Commercial** 



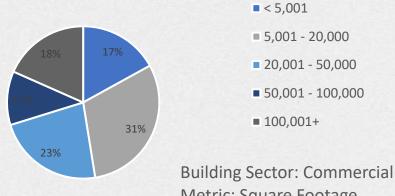
- What does this tell us?
  - Large energy consumers

     (both electric and natural gas)
     in the commercial sector are:
     office, retail, mixed comm,
     and restaurant
- Why does this matter?
  - Not all building types need to be treated the same in policies/legislation.

Source: NEEA CBSA (regional data so not Oregon specific)

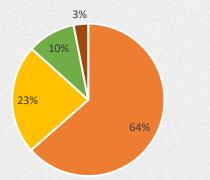
# Building Stock Characteristics (ctd.)

**Building Sector: Commercial** Metric: Square Footage Breakdown by Building Size





Metric: Square Footage Breakdown by Vintage (building age)



Pre-1990 **1990-2003** 

2004-2013 **2014-2018** 

- What does this show us?
  - Additional ways to distribute the data
- Why does this matter?
  - Policies can be targeted towards high impact segments of the commercial sector.

Source: NEEA CBSA (regional data so not Oregon specific)

#### Additional Data Points

This list provides additional thoughts on data that could provide valuable context but are either not readily available or need more analysis

- Outputs from TIGHGER analysis will be available in July to the public.
   This includes:
  - Predictions of carbon emissions from the electric sector and gas infrastructure decarbonization
  - Predictions of new construction for commercial and residential starts
  - Cost of various decarbonization scenarios (electrification, renewable natural gas, etc.)
- County (or any jurisdiction more granular than state) level data for commercial buildings
- State-owned building portfolio energy data: available but not yet accessed by this team

# Task Force Q&A: Questions and Discussion on the Baseline

# National Landscape: Examples in Other States

# National Landscape

Brief summary of recent building decarbonization legislation in New York, Maryland and Colorado, with a deeper dive in Washington State afterward.

#### As we review, consider:

- What components of this might apply to Oregon's circumstances?
- What additional information about these policies and programs would be helpful to you as you consider recommendations for Oregon?
- What other cities, states, or countries' approaches would you like to discuss with your Task Force colleagues?

EB NC ALL	New York	Maryland	Colorado
State Government	CLCPA goals, New Efficiency: New York includes ZNE/Zero Carbon targets	HB 662 (2020) sets EE requirements and energy performance contracts, state buildings are annually benchmarked	Series of EOs (most recent is <u>EO D 2019</u> <u>016</u> ) with GHG and energy reduction targets, RE targets
Financial Tools and Incentives	New York Green Bank, Green Jobs New York, many incentive programs through NYSERDA; PACE, ESPCs (through NYPA) for state- owned buildings	Utility incentive and rebate programs; PACE, EPCs for state-owned buildings	State mortgage and loan programs, utility incentive and rebate programs; PACE, EPCs for public projects
Building Energy Codes	2018 IECC (residential), 2018 IECC or ASHRAE 90.1-2016 (commercial)	2018 IECC with amendments (residential), 2018 IECC and 90.1-2016 (commercial)	Homerule, adopted at local level (see changes in <u>HB 22-1362</u> )
Stretch Codes	NYStretch	None adopted statewide	None adopted statewide
Performance-Based Standards	None	Certain buildings over 35K sf under SB 0528 (detail on further slides)	HB21-1286 directs Task Force to develop recommendations
Benchmarking and Disclosure	State-owned facilities over 25k sq ft (annual)	SB 0528 requires reporting of direct emissions (onsite combustion), beginning in 2025	Required by <u>HB21-1286</u> for buildings over 50K sf (with some exemptions for manufacturing, industrial or agricultural)
Equity/Workforce Development	Under CLCPA 40% of benefits of investments go to disadvantaged communities	Several recent laws (such as <u>SB 516</u> ) include provisions for workforce development and training	Colorado WAP is running direct install ASHP pilot, several agencies are working with utilities on workforce training
Carbon Pricing	RGGI	RGGI	None

# New York State – 2019 Legislation

Climate Leadership and Community Protection Act (<u>S6599</u>)

- Commits to 100% zero-emissions electricity by 2040
- Sets statewide GHG reduction target of at least 85% below 1990 levels by 2050
- Requires that disadvantaged communities receive minimum 35% (goal of 40%) benefits from state's clean energy investments
- Creates <u>Climate Action Council</u> (22 member committee) to develop scoping plan to achieve targets
  - Seven sector-specific <u>advisory panels</u>
  - Climate Justice working group

# New York State – 2019 Legislation Continued

Climate Leadership and Community Protection Act (S6599)

- Requires Department of Environmental Conservation (DEC) to produce annual report on statewide GHG emissions
- Requires DEC to report progress toward GHG goals with recommended modifications every four years
- Requires state government climate and equity screen for all decisions

Note: Draft <u>Climate Action Council Scoping Plan</u> was released for public comment earlier this year and remains open through June 10.

# Maryland 2022 Legislation

Climate Solutions Now Act of 2022 (SB 0528):

- ALL
- Revises statewide GHG emissions goals: 60% below 2006 levels by 2031, net-zero by 2045
- EB
- Requires energy efficiency and emissions reductions for certain buildings
  - Building Performance Standards for buildings over 35,000 square feet
  - Reporting of direct emissions from heat beginning in 2025
  - Covered buildings are required to reduce direct emissions 20% below 2025 by 2030, achieve net zero direct emissions by 2040
  - Certain buildings are exempt

# Maryland 2022 Legislation - Continued

Climate Solutions Now Act of 2022 (SB 0528)

- ALL
- Requires Public Service Commission and Building Codes Administration to study and make recommendations on the electrification of buildings in the state
- NC
- Requires Maryland Green Building Council to examine and report on specific items relating to State procurement of concrete
- Non-buildings provisions of the bill include: energy reduction requirements for electric utilities, electric vehicles for state fleet, electric school bus pilot program, and environmental justice provisions

# Colorado 2022 Legislation

#### **Energy efficient building codes (HB 22-1362)**

- Requires appointment of energy code board to develop two model codes:
  - Electric and solar ready
  - Low energy and carbon
- Requires local governments and certain state agencies to adopt and enforce codes consistent with model codes
- Creates Building Electrification for Public Buildings Grant Program: local governments, school districts, state agencies, special districts eligible to receive funding for high-efficiency electric heating (space, water), or cooking
- Creates High Efficiency Electric Heating and Appliances Grant program: local governments, utilities, nonprofits, and housing developers eligible to install high efficiency electric heating equipment in multiple structures within a neighborhood
- Establishes Clean Air Building Investments Fund funding for above (\$10 million for Public Buildings Grant program, ~\$11 million for High-Efficiency Electric Heating and Appliances Grant)

### Colorado 2022 Legislation - Continued

- **INC** EV-Ready Building Codes (<u>HB22-1218</u>)
  - Requires new and renovated commercial and multifamily buildings to be EV-ready
- Heat Pumps and Building Materials (SB22-051)
  - Creates 10% tax credit and state sales tax exemption for heat pump systems
- Strong Communities and Affordable Housing (HB22-1304)
  - Invests \$40M in "Strong Communities Grant Program"
  - Invests \$178 million for affordable housing
  - Includes land use and transportation-related provisions
- All Air Quality (SB22-193)
  - Most provisions are transportation related
  - Includes \$25M in incentives for industry to go beyond EE/clean tech requirements

#### **Data Sources**

- Legislation referenced are linked throughout
- (All States) American Council for an Energy Efficient Economy (ACEEE)'s <u>State Policy Database</u>
- (All States) National Conference of State Legislatures' <u>Building Efficiency</u>
   Database
- (All States) <u>Database of State Incentives for Renewables and Efficiency</u>
  (DSIRE)
- (Colorado) Southwest Energy Efficiency Project <u>Colorado legislative</u> tracking

Task Force Q&A: Questions and Discussion on the National Landscape and Policy Examples

# Task Force Discussion: What are the possible policy areas for Oregon?

#### **DISCUSSION QUESTIONS**

Considering the baseline in Oregon and examples from other states...

What potential policy areas or solutions would you want to see explored in Oregon?

#### Consider policy areas for:

- 1. New Construction
- 2. Existing Buildings
- 3. All Buildings (this could include building-related utilities actions, appliance standards, etc.)



Provide additional ideas in the Jamboard:

tinyurl.com/2p9p96zb

#### JAMBOARD INSTRUCTIONS

Task Force members are invited to provide comment using interactive online tool

- Go to: tinyurl.com/2p9p96zb
- Use "sticky note" tool by clicking on icon on left-hand side toolbar
- Type your comment in the sticky note
- Do not select "clear frame" button. If you accidentally select it, select the "undo" arrow on the left side of the options bar and it will bring it back.
- Do not move sticky notes as they come onto the Jamboard. Staff will move the notes around.



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# Thank You, Next Steps, and Adjourn

#### **FUTURE MEETING DATES**

- June 14, 3-5pm
- July 12, 3-5pm
- August 9, 3-5pm
- August 23, 3-5pm

#### Meeting information:

https://olis.oregonlegislature.gov/liz/2021I1/Committees/JTFREB/Overview

Look for the survey from Beth to provide additional Task Force comments.