

Building Codes Division

- Executive Order No. 17-20 focused on the built environment. Reducing energy use and increasing efficiency will help lower emissions from the built environment.
- EO 20-04 requires:
 - BCD to update code to achieve 60% reduction in new building energy consumption by 2030.
 - Report progress
 - Establish and measure baseline metrics and reductions

Building Codes Division – Recent Activity

- Adopted Zero Energy Ready requirements in 2019 code update for commercial structures
 - A zero energy building is one in which energy efficiency is maximized, the capacity to meet the building's energy needs with renewable energy sources has been enabled, and site and community-based renewables are prioritized.
- Additional wildfire hazard mitigation provisions added to Oregon Residential Specialty Code in 2019
 - Addressed roofing, exterior walls and fixtures, ventilation



Step One: Optimize Efficiency	Step Two: Do No Harm	Step Three: Ensure Future Ready
Enclosure	Water Protection	Solar Ready
Equipment	Ensured Comfort	Forthcoming Codes
Appliances/Lighting	Indoor Air Quality	Resilience [Future]

Building Codes Division - Current Activity

- EO 17-20 directed an amendment of the state building code to require all newly constructed buildings be ready for installation of solar panels and related technologies by October 1, 2020, for residential structures.
- Implementing Solar Ready provision for new residential construction in 2021 code update
 - Includes the raceway but allows wiring to be installed in place of the raceway;
 - Requires that, for dwellings with 600 square feet of contiguous roof area, located on a single roof plane facing a direction other than north, the construction documents shall indicate a 300 square foot solar-ready zone.
 - Requires that there is space on the electrical service panel for a double-pole circuit breaker reserved for future solar electric installation.

Building Codes Division - Upcoming

- Electric vehicle readiness
- Zero Energy Ready on residential structures
- EO 20-04
 - Establish baselines & metrics
 - Interim September 15, 2020 report to Governor (not yet available)
 - Update Reach Code (likely Zero Energy Ready)

Building Codes Division – 2021 Changes

2021 Oregon Residential Specialty Code Energy Provisions approved in August 2020

- Requires whole-house mechanical ventilation for each dwelling unit including heat recovery ventilators.
- Requires all conditioned spaces within residential buildings comply with envelope insulation value requirements.
- Clarified glazing and air leakage requirements.
- Requires HVAC duct insulation
- Requires energy star certification for ventilation fans
- Requires the first 8 feet of pipe into and out of the water heater to be insulated.

Building Codes Division – Water Heaters

- Pending provision to add insulation requirement on first run of piping. (8')
- No preference for gas vs. electric
- Energy Trust of Oregon offers discounts on both gas and electric water heaters.

Oregon Public Utilities Commission

- Executive Order 20-04 Requirements
 - Wildfire risk mitigation
 - Incorporate GHG goals in PUC deliberations
 - Utility investment in EV infrastructure.

Oregon Public Utilities Commission - Wildfire

- Evaluate electric companies' risk-based wildfire protection plans and planned activities to protect public safety, reduce risks to utility customers, and promote energy system resilience in the face of increased wildfire frequency and severity
- On August 25 OPUC initiated the informal phase of a rulemaking to address risk-based wildfire protection plans and planned activities consistent with Executive Order 20-04.
 - Gather stakeholder input
 - Draft rules

Oregon Public Utilities Commission - Wildfire

Oregon Wildfire & Electric Cooperative

- On March 10, 2020, Governor Brown issued [Executive Order 20-04](#), which directs the Oregon Public Utility Commission (PUC) to convene workshops to assist electric companies, consumer-owned utilities, and operators of electrical distribution systems to develop and share best practices for mitigating wildfire risk.
- Upcoming Workshop - System Hardening. Thursday, October 1, 2020 from 1 - 4 p.m. (PT)

Oregon PUC - Transportation Electrification

- PacifiCorp Public Charging Pilot
 - Mill City In Progress
 - Madras Completed
 - Otis Under Construction
 - Bend Completed
 - Klamath Falls In Progress
- PGE - seven metro Portland locations
- Additional pilots scheduled for more charging stations will be installed in Bend, Coos Bay, Roseburg, Medford, East Portland, Hillsboro, Milwaukie, Portland, and Wilsonville

Oregon PUC – Selected Stakeholder Comments

- Provide incentives and remove barriers to fuel switching
- Decarbonize utilities through more flexible accounting and depreciation of existing emitter resources
- The EO isn't particularly helpful, in that it doesn't rebalance the priorities of the PUC
- Modify ETO programs to increase GHG reductions
- Prioritize actions that will achieve deepest decarbonization
- people of color and low-income customers served by crumbling infrastructure as others move toward decarbonization

Oregon Dept of Energy – Appliance Standards

- EO 20-04 directs ODOE to update energy efficiency standards for products at least to levels equivalent to the most stringent standards among West Coast jurisdictions
- High CRI fluorescent lamps, Commercial dishwashers, Computers and computer monitors, Commercial steam cookers, Faucets, Residential ventilating fans, Shower heads, Electric storage water heaters, Commercial fryers & Portable electric spas
- Rulemaking is required to be completed by September 1, 2020.
- Oregon law requires energy efficiency standards to be specified in statute. We anticipate filing the final legislative concept by December 12, 2020 for consideration in the 2021 Legislative Session.

Oregon Dept of Energy – Building Codes

- ODOE will cooperate with BCD in evaluating and reporting on Oregon's current progress towards achieving the goals in the EO, with a report due on September 15, 2020.
- November 2020 deliverable - Interim models or performance expectations for 2023 and 2026 code cycles.

Oregon DOE – Transportation Electrification

- The Oregon Department of Transportation, Department of Environmental Quality, Oregon Department of Energy, and Department of Land Conservation and Development s will deliver a two-year work plan to the Governor no later than June 30, 2020.
- “The Oregon Department of Energy is excited to do its part to implement the directives of Executive Order 20-04 to reduce GHG emissions and fight climate change in our state.”