### Built Environment Efficiency Working Group
**State of Oregon**
Implementing Executive Order No. 17-20*

<table>
<thead>
<tr>
<th>EO Directive</th>
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<th>Progress/Milestones Reached</th>
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<tbody>
<tr>
<td>3A</td>
<td>ODOE and DAS to establish energy use intensity (EUI) targets for all state owned existing buildings, and for remodels after the date of the executive order. State agencies not meeting targets will work with ODOE and DAS to undertake retrofits.</td>
<td>ODOE, DAS</td>
<td>Ongoing</td>
</tr>
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<td></td>
<td>ODOE to report and track energy use in state owned buildings.</td>
<td>ODOE</td>
<td>Ongoing</td>
</tr>
<tr>
<td></td>
<td>ODOE and all agencies benchmark and identify buildings for retrofits.</td>
<td>ODOE</td>
<td>Ongoing</td>
</tr>
<tr>
<td></td>
<td>ODOE to develop database of eligible state-owned buildings.</td>
<td>ODOE</td>
<td>6/1/2018</td>
</tr>
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*View the [Executive Order](#) for complete directives and additional information. More about the BEEWG: [www.oregon.gov/energy/Get-Involved/Pages/BEEWG.aspx](http://www.oregon.gov/energy/Get-Involved/Pages/BEEWG.aspx)  
Updated: February 2020
### 3B
ODOE and DAS work with agencies to make state-owned new office and commercial space buildings able to operate as carbon-neutral.

<table>
<thead>
<tr>
<th>Agency(s)</th>
<th>Requirement</th>
<th>Deadline</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>DAS, ODOE</td>
<td>Applies to buildings permitted after 1/1/2022</td>
<td></td>
<td>This item does not have a near term deadline, but this will be incorporated into existing SEED program for new state construction. The DAS 2018 Sustainability Plan and new Energy Management Policy both identify the need to develop guidance for designing carbon neutral-ready buildings.</td>
</tr>
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### 3C
ODOE and DAS analyze feasible options with DEQ for embodied carbon consideration in building materials.

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<tr>
<td>ODOE, DAS, DEQ</td>
<td>Ongoing</td>
<td></td>
<td>DAS and the Oregon Sustainability Board have engaged DEQ to evaluate embodied carbon in concrete. Collaboration will continue.</td>
</tr>
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### 3D
ODOE and DAS develop plug load strategy.

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<tbody>
<tr>
<td>ODOE, DAS</td>
<td>1/1/2019</td>
<td></td>
<td>December 2018: <a href="#">Statewide Plug Load Strategy document</a> completed and posted to BEEWG website.</td>
</tr>
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</table>

*Recent activities include October 2019 plug load workshop for state agencies to implement strategy.|

Updated DAS policies for behavior-based efficiency.

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<td>DAS</td>
<td>1/1/2020</td>
<td></td>
<td><strong>Completed</strong></td>
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ODOE and DAS to develop procurement requirements for equipment, including water and energy efficiency.

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<tr>
<td>ODOE, DAS</td>
<td>FY 2018-19</td>
<td><strong>Completed/Continuing</strong></td>
<td>June 2019: Procurement requirements developed. <a href="#">Summary report</a> for state energy efficient procurement uploaded to BEEWG website.</td>
</tr>
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*View the [Executive Order](#) for complete directives and additional information.*

More about the BEEWG: [www.oregon.gov/energy/Get-Involved/Pages/BEEWG.aspx](#)  
**Updated:** February 2020
| 3E | ODOE to analyze state building costs, including lifecycle energy or water use costs or savings, upon facility energy and water upgrades. | ODOE, state agencies | Ongoing | • An interagency sub-group was formed to implement this directive, and included DAS procurement, ODOE, DEQ and DAS Sustainability. Agencies conducted research, conducted stakeholder outreach, and developed specifications for procurement.  
• Upcoming activities include integration into DAS Sustainable Procurement Program, employee trainings, and policy updates.  
• Incorporated into existing SEED process for new state construction.  
• DAS, ODOE conducted research into existing water lifecycle cost tools that are available.  
• ODOE incorporating lifecycle cost analysis of water reduction measures into SEED lifecycle cost analysis calculator, which is already used to analyze state building lifecycle energy savings when considering energy upgrades for state buildings.  
• Completed  
• December 2018: Summary document on work, analysis tools, and directive completion uploaded to BEEWG website.  
• Agency benchmarking through ENERGY STAR Portfolio Manager. |

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<td>Increasing Energy and Water Efficiency in New Construction</td>
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| 4A | BCD and Advisory Boards to amend code to require solar readiness requirements and exemptions for residential buildings. | BCD | 10/1/2020 | • Current Code: [https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx)  
• Code Change: [https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx) |
| 4B | BCD and Advisory Boards to amend code to require solar readiness requirements and exemptions for commercial buildings. | BCD | 10/1/2022 | |
| 4C | BCD and Advisory Boards to amend code to require Level 2 EV charger readiness requirements and exemptions. | BCD | 10/1/2022 | • Current Code: [https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx)  
• Code Change: [https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx) |
| 4D | BCD and Advisory Boards to amend commercial code to exceed IECC and ASHRAE 90.1 and meet or exceed measureable prescriptive energy efficiency portions of ASHRAE 189.1. | BCD | 10/1/2022 | • Current Code: [https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx)  
• Code Change: [https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx) |
| 4E | ODOE and BCD provide report to Governor on key, expanding industries with potential to realize significant cost savings and energy savings through building code amendments. | ODOE, BCD | 1/1/2019 | • Completed  
• December 2018: “Expanding Industries and Building Code Amendments” report completed, provided to Governor’s Office, and posted to BEEWG website. |

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Updated: February 2020
| 4F | ODOE and stakeholders identify and adopt appliance standards, aligning with other leading states. Report and analysis to governor. | ODOE | 11/1/2018 | • Completed  
• November 2018: [Improved State Standards for Appliances](https://www.oregon.gov/energy/Get-Involved/Pages/BEEWG.aspx) opportunities report complete, delivered to the Governor’s Office, and posted to BEEWG website.  
• 2018 work included ODOE research into available opportunities, data collection, and monthly collaborative discussions with other states.  
• Two industry stakeholder meetings held in 2018 for an appliance standards legislative concept. |
| 4G | BCD and Advisory Boards to amend code to require high-efficiency water fixtures in all new buildings. | BCD | 1/1/2020 | • Current Code: [https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx)  
• Code Change: [https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/code-adoption/Pages/index.aspx) |
| 4H | BCD and Advisory Boards to develop standards and amend code for water capture and safe reuse. | BCD | 10/1/2025 | • Current Code: [https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx](https://www.oregon.gov/bcd/codes-stand/Pages/index.aspx)  
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| 5A | PUC working with ETO on development of meter-based savings pilot programs. | PUC | 1/1/2019 | • Completed   
• December 2018: [Report](#) that documents the work associated with this directive and how the EO requirements have been met uploaded to BEEWG website.  
• In 2018, PUC worked with ETO to accomplish this directive. |
| 5B | ODOE, PUC, OHCS assess energy use in all affordable housing building stock. Develop 10-year plan to achieve maximum efficiency. Include Best Practices from ETO and BPA. OHCS expansion of multi-family, green, manufactured replacement and value assessment (NEBs). | OHCS, ODOE, PUC | 1/1/2019 | • Completed   
• Significant stakeholder involvement and outreach throughout 2018.  
• December 2018:   
  o “10 Year Plan on Reducing the Energy Burden in Oregon Affordable Housing” completed and uploaded to BEEWG website   
  o Map-based GIS Assessment Tool completed and made available to the public: [http://bit.ly/OHCS_AHA](#)   
  o “How-To Guide and Methodology” for the Oregon Affordable Housing Assessment tool completed and uploaded to the BEEWG website |
| 5C | ODOE and PUC support and assist private sector partners for data share of projected energy use reduction in the region. Data made available to public to inform energy efficiency policies, as appropriate. | ODOE, PUC | 1/1/2020 | • Completed/Continuing  
• Report published on [BEEWG site](#).  
• Interagency coordination will continue to build upon work to-date and refine this effort as needed.  
• 2019 work included PUC and ODOE scoping document completion, stakeholder survey distribution, and summary report.  
• This first phase of work included a high-level regional energy data flow with map/links to available data sources that can inform energy efficiency planning. PUC’s and ODOE’s work will not involve publication of any third-party data. |

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Updated: February 2020*
| 5D | ODOE and PUC evaluate the state’s distributed resources needed to improve Oregon’s recovery from a disaster. Report to the Governor. | ODOE, PUC | 1/1/2019 | • Completed  
• December 2018: Report complete, delivered to the Governor’s Office, and posted to BEEWG website. |

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| **Increasing Energy Efficiency Through Retrofits of Existing Buildings** | EO 6 | ODOE, BCD | 12/1/2019 | • Completed  
• Agency meeting focused on cost analysis held 4/4/18.  
• Public meeting for input on cost tool held 5/8/18.  
• BCD requested advisory boards to provide input to the division.  
• Focus item for April 16, 2019 BEEWG public meeting.  
• BEEWG development of Cost Analysis Protocol and Cost Analysis Tool completed, posted to BEEWG website. |
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