

## Energy 101: Oregon State Climate Programs and Actions

In March 2020, Governor Kate Brown issued Executive Order 20-04 directing Oregon state agencies to take a series of significant actions to reduce emissions of greenhouse gases and help prepare for the effects of climate change in Oregon. EO 20-04 further advanced the State’s GHG reduction goals by setting targets of at least 45 percent below 1990 levels by 2035, and at least 80 percent by 2050.<sup>1</sup> While some of the directives in EO 20-04 were explicit, many were broadly defined.



To promote understanding of what work is underway and help identify gaps to advance climate policy, the Oregon Department of Energy and the Oregon Global Warming Commission took stock of major ongoing climate change-related programs and projects led by various state entities (agencies, boards, and commissions). The following tables summarize entities’ major initiatives related to four main categories:

- **Greenhouse Gas Emissions Reductions and Sequestration:** Programs or policies *directly* resulting in GHG emissions reductions or carbon sequestration (the capturing and storage of carbon dioxide).
- **Assessment of Climate Risks and Vulnerabilities:** Assessment projects and ongoing monitoring of climate change-related risks and associated vulnerabilities emerging in a variety of contexts/sectors in Oregon.
- **Preparing for Climate Change:** Policies and programs facilitating measures to increase resilience to climate change related risks, as well as policies and programs to transition to a cleaner (low-carbon) economy. This can include *indirect* efforts to reduce GHG emissions and efforts to increase the sustainable use of resources.
- **Educating Oregonians About Climate Change:** Publications, resources, and outreach directed toward educating Oregonians about climate change (including schools and the general public).

Many initiatives are collaborative among several agencies; these initiatives are cross-referenced and are colored in **orange text** below. For mitigation programs/policies, where estimated, the expected GHG emissions reductions resulting from a project/program are noted. Emissions reduction estimates for many programs in this topic will be available in the Oregon Global Warming Commission’s forthcoming Roadmap to 2035 report. Such information is helpful to monitor and advance progress toward reaching our state goals.

## Business Oregon (Oregon Business Development Department)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Rural Renewable Energy Development Zone Program</b></p> <ul style="list-style-type: none"> <li>Provides businesses tax abatement from local property taxes (for 3-5 years) for generating renewable electricity or producing, distributing, or storing biofuels<sup>2</sup></li> </ul> <p><b>Solar Development Incentive Program</b></p> <ul style="list-style-type: none"> <li>Provides businesses incentives for developing qualified solar projects (\$0.005/kWh for up to 150 MW of capacity; sunsets Jan 2023)<sup>3</sup></li> </ul>	<p><i>No activities in this category</i></p>	<p><b>Oregon Renewable Energy Siting Assessment (ORESAs)</b> – See ODOE</p> <p><b>Oregon’s Climate Change Adaptation Framework</b> – See DLCD</p> <p><b>Climate Equity Blueprint</b> – See OHA</p>	<p><i>No activities in this category</i></p>

## Department of Administrative Services

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Sustainable Procurement Services Program</b></p> <ul style="list-style-type: none"> <li>Integrates consideration of sustainability and GHG reduction in procurement<sup>4</sup></li> </ul> <p><b>Conversion of state fleet to zero-emission vehicles</b></p> <ul style="list-style-type: none"> <li>100% of new light-duty vehicles by 2025<sup>5</sup></li> <li>Installation of new electric vehicle charging infrastructure</li> </ul> <p><b>Agency Climate Action Toolkit - Lead</b></p> <ul style="list-style-type: none"> <li>Provides tool and guidance for agencies to reduce GHGs in their operations</li> </ul> <p><b>Zero Emission Vehicle Interagency Working Group - See ODOT</b></p> <p><b>Built Environment Efficiency Working Group - See ODOE</b></p>	<p><b>Assessment of climate hazards to inform leases, construction, and land purchases</b></p> <ul style="list-style-type: none"> <li>Inclusion of mid- and long-term climate risk (e.g., from floods and fires) and resilience benefits in decision-making processes<sup>6</sup></li> </ul>	<p><b>Building design/retrofit (in progress)</b></p> <ul style="list-style-type: none"> <li>Incorporates climate change projections and hazard analysis into building design and retrofit plans and statewide policy<sup>7</sup></li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p> <p><b>Climate Equity Blueprint – See OHA</b></p>	<p><i>No activities in this category</i></p>

Department of Consumer and Business Services (Building Codes Division, Division of Financial Regulation, and Oregon Occupational Safety and Health)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Oregon Energy Efficiency Specialty Code</b></p> <ul style="list-style-type: none"> <li>Improves Oregon’s energy efficiency requirements for new buildings and renovations to achieve 60 percent decrease in energy use by 2030 (relative to 2006)<sup>8</sup></li> </ul> <p><b>Oregon Reach Code</b></p> <ul style="list-style-type: none"> <li>Optional energy efficiency construction standard for builders, consumers, and contractors beyond the state building code<sup>9</sup></li> </ul> <p><b>Built Environment Efficiency Working Group - See ODOE</b></p>	<p><b>Assessment of insurance &amp; climate risk</b></p> <ul style="list-style-type: none"> <li>Analysis of climate risks (e.g., damage from wildfires), insurance premiums, and mitigation costs to engage insurance industry and account for climate risks in financial risk assessment<sup>10</sup></li> </ul>	<p><b>Fire Hardening Grant Program</b></p> <ul style="list-style-type: none"> <li>Grant for fire hardening in repair or replacement of structures damaged or destroyed in 2020 wildfires<sup>11</sup></li> </ul> <p><b>New heat and smoke exposure rulemaking</b></p> <ul style="list-style-type: none"> <li>Updated existing OSHA rules to better reflect changing hazard conditions and ensure protection for vulnerable workers<sup>12</sup></li> </ul> <p><b>Building Codes:</b></p> <ul style="list-style-type: none"> <li>New residential: fire hardening for construction in high wildfire risk areas by 4-1-23<sup>13</sup></li> <li>New residential: Zero energy ready by 10-1-23</li> <li>Commercial: irrigation via water recapture by 10-1-25</li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p>	<p><b>Mandatory training for new heat and smoke exposure rules</b></p> <ul style="list-style-type: none"> <li>Oregon OSHA implementation of risk-mitigation training requirements for exposed/vulnerable workers<sup>14</sup></li> <li>Audience: employers/employees</li> </ul> <p><b>Public communication campaign about heat and smoke hazards</b></p> <ul style="list-style-type: none"> <li>Ongoing education outreach on climate-related work hazards in English and Spanish<sup>15</sup></li> <li>Audience: general</li> </ul>

## Department of Land Conservation and Development (DLCD)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Climate-Friendly and Equitable Communities</b></p> <ul style="list-style-type: none"> <li>• Program to meet climate goals through improved transportation options, more walkable neighborhoods and services in urban areas (with pop. of 50k+)<sup>16</sup></li> <li>• Requires Eugene-Springfield and Salem-Keizer to develop regional strategy to meet GHG targets</li> </ul> <p><b>Transportation and Growth Management Program</b></p> <ul style="list-style-type: none"> <li>• Coordinates land and transportation planning to improve transportation efficiency<sup>17</sup></li> <li>• Supports development of walking/biking opportunities</li> </ul> <p><b>Every Mile Counts – See ODOT</b></p>	<p><b>Natural Hazards Mitigation Planning</b></p> <ul style="list-style-type: none"> <li>• Supports state, local, and tribal governments in assessing how climate change will affect natural hazards; identifying vulnerable assets and populations; and assessing overall risk to natural hazard events<sup>18</sup></li> <li>• Develops Oregon’s Natural Hazard Mitigation Plan</li> <li>• Leads the Hazard Mitigation Team for the Office of Emergency Management</li> </ul> <p><b>Oregon Coastal Management Program</b></p> <ul style="list-style-type: none"> <li>• Supports coastal communities in assessing natural hazards and vulnerabilities specific to the coast<sup>19</sup></li> <li>• Supports coastal communities in developing and implementing actions to reduce</li> </ul>	<p><b>Coordinates implementation of FEMA’s National Flood Insurance Program in Oregon</b></p> <ul style="list-style-type: none"> <li>• Connects participants with federal program and resources<sup>21</sup></li> </ul> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities</b></p> <ul style="list-style-type: none"> <li>• Development of guidance for climate actions for impacted communities with equity focus<sup>22</sup></li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – Lead</b></p> <ul style="list-style-type: none"> <li>• Identification of adaptation needs and strategies across Oregon’s economy<sup>23</sup></li> </ul> <p><b>Climate Equity Blueprint – See OHA</b></p> <p><b>Oregon Renewable Energy Siting Assessment (ORESA) – See ODOE</b></p>	<p><b>FEMA National Flood Insurance Program (NFIP) training</b></p> <ul style="list-style-type: none"> <li>• DLCD-hosted training on a range of NFIP-related topics<sup>24</sup></li> <li>• Audience: local gov/general</li> </ul> <p><b>Resources on DLCD website</b></p> <ul style="list-style-type: none"> <li>• Information and links for program information, toolkits, local planning, reports, etc.<sup>25</sup></li> <li>• Audience: general</li> </ul>

	<p>vulnerability and risk from natural hazards</p> <p><b>Oregon's Climate Change Vulnerability Assessment – Lead</b></p> <ul style="list-style-type: none"><li>• Assessment of how climate change is affecting the well-being, livelihoods, and cultural identity of Oregonians<sup>20</sup></li></ul>		
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## Environmental Quality Commission and Department of Environmental Quality (DEQ)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Climate Protection Program</b></p> <ul style="list-style-type: none"> <li>January 2022 program that establishes GHG emission limits on fossil fuel providers/suppliers and large industrial sources (mitigating 25.1 MMTCO<sub>2</sub>e by 2050)<sup>26</sup></li> </ul> <p><b>Clean Fuels Program</b></p> <ul style="list-style-type: none"> <li>Reduces lifecycle GHG emissions from fuels used in transportation sector by 10% by 2025, 20% by 2030, and 37% by 2035<sup>27</sup></li> <li>Resulted in 6.5 MMTCO<sub>2</sub>e emissions savings through 2020<sup>28</sup></li> </ul> <p><b>Oregon Clean Vehicle Rebate Project</b></p> <ul style="list-style-type: none"> <li>Rebate program to incentivize purchase/lease of new/used zero emission vehicles<sup>29</sup></li> <li>Charge Ahead Rebate incentive for low- and moderate-income households to acquire an EV</li> </ul>	<p><b>Assessment of environmental health cost of carbon-based fuel use</b></p> <ul style="list-style-type: none"> <li>Identified health outcomes and healthcare cost savings associated with pollution reduction<sup>32</sup></li> </ul> <p><b>Ongoing environmental monitoring</b></p> <ul style="list-style-type: none"> <li>Continued investment in monitoring capabilities, including effect of wildfire smoke on air quality<sup>33</sup></li> </ul> <p><b>Material Recovery Programs</b></p> <p><b>See:</b> Preparing for Climate Change category</p>	<p><b>Wildfire smoke hazard resilience</b></p> <ul style="list-style-type: none"> <li>Significant investment in air quality monitoring; facilitating wildfire smoke monitoring and reporting</li> <li>Support for community preparedness and response for associated public health risks<sup>34</sup></li> </ul> <p><b>Food Waste Reduction Strategy</b></p> <ul style="list-style-type: none"> <li>Identifies and funds food waste reduction and outreach<sup>35</sup></li> <li>Targets social benefits and lifecycle GHG savings<sup>36</sup></li> </ul> <p><b>Built Environment Strategic Plan</b></p> <ul style="list-style-type: none"> <li>Reduces lifecycle GHG impacts of built environment through voluntary programs, capacity building, grants and more</li> <li>Centers equity and environmental justice</li> </ul>	<p><b>Resources on DEQ website</b></p> <ul style="list-style-type: none"> <li>Information on climate change, DEQ programs, and other state programs and resources<sup>37</sup></li> <li>Audience: general</li> </ul> <p><b>GreenState Podcast</b></p> <ul style="list-style-type: none"> <li>Explores environment and environmental quality in Oregon<sup>38</sup></li> <li>Audience: general</li> </ul> <p><b>Air, Land &amp; Water Blog</b></p> <ul style="list-style-type: none"> <li>Covers environmental quality and climate change topics<sup>39</sup></li> <li>Audience: general</li> </ul> <p><b>Bad Apple Campaign</b></p> <ul style="list-style-type: none"> <li>Statewide marketing campaign educating consumers to reduce food waste and lifecycle emissions from food production</li> <li>Audience: general</li> </ul>

### **Zero Emission Vehicle Standards<sup>iii</sup>**

- Advanced Clean Truck Regulations, which requires medium- and heavy-duty truck manufacturers to produce and deliver increasing percentages of zero-emission vehicles<sup>30</sup>
- ZEV standards for light-duty vehicles, requires manufacturers to produce and deliver increasing percentages of zero-emission vehicles and reduce GHG emissions from conventional vehicles. DEQ is in rulemaking to adopt California’s Advanced Clean Cars II rule requiring all new light-duty vehicle sales to be zero-emission by 2035<sup>31</sup>

**Zero Emission Vehicle Interagency Working Group - See ODOT**

**Every Mile Counts – See ODOT**

### **Material Recovery Programs**

- Plans, regulates, and provides assistance for local recovery programs statewide
- Incorporates lifecycle impacts of material recovery

**Oregon’s Climate Change Adaptation Framework – See DLCD**

**Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD**

**Climate Equity Blueprint – See OHA**

**Oregon Renewable Energy Siting Assessment (ORESAs) – See ODOE**

**Natural & Working Lands Proposal – See OGWC**



## Oregon Department of Agriculture (ODA)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Research into carbon sequestration through changing land use practices</b></p> <ul style="list-style-type: none"> <li>• Identifying strategies to improve soil health and carbon sequestration potential<sup>40</sup></li> <li>• Integrating expertise on soil health throughout ODA programs with new Soil Health Position</li> </ul>	<p>No activities in this category</p>	<p><b>Advancing water management practices</b></p> <ul style="list-style-type: none"> <li>• Improving the quality of groundwater management areas</li> <li>• Improving agricultural water quality rules that increase watershed resilience</li> <li>• Engaging in Place-Based Planning for water resources, focused on adapting to the impacts of changing water regimes across Oregon</li> </ul> <p><b>Advancing the resilience of native species</b></p> <ul style="list-style-type: none"> <li>• Changing climate conditions can favor invasive species, helping them to out-compete native species and expand their populations rapidly</li> <li>• Implementation of an Early Detection and Rapid Response (EDRR) strategy to protect native species habitat</li> </ul>	<p>No activities in this category</p>

**Interagency Working  
Group on Climate  
Impacts to Impacted  
Communities – See  
DLCD**

**Oregon’s Climate  
Change Adaptation  
Framework – See  
DLCD**

**Oregon Renewable  
Energy Siting  
Assessment (ORESAs)  
– See ODOE**

**Natural & Working  
Lands Proposal – See  
OGWC**

## Oregon Department of Energy (ODOE) and Energy Facility Siting Council

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Solar + Storage Rebate Program</b></p> <ul style="list-style-type: none"> <li>• Rebate program for installation of solar panels and storage capacity<sup>41</sup></li> <li>• 684 projects completed in 2021<sup>42</sup></li> </ul> <p><b>Energy Efficient Schools Program</b></p> <ul style="list-style-type: none"> <li>• Provide technical support and connect schools with resources for energy efficiency projects<sup>43</sup></li> </ul> <p><b>Energy Efficiency Appliance Standards</b></p> <ul style="list-style-type: none"> <li>• Advancement of standards from HB 2062<sup>44</sup></li> <li>• Appliance efficiency improvements could achieve 2.5 MMTCO<sub>2</sub>e in emissions savings through 2035<sup>45</sup></li> </ul> <p><b>Energy Facility Siting Council Carbon Standards</b></p> <ul style="list-style-type: none"> <li>• Monetary Offset rate for excess facility emissions raised from \$2.85 to \$4.27 per ton of CO<sub>2</sub> in 2022 (the maximum increase allowed by current statute), update emissions standards, and implement HB 2021</li> </ul>	<p><b>Energy Sector Climate Vulnerability Assessment</b></p> <ul style="list-style-type: none"> <li>• Identifies and evaluates climate change related vulnerabilities and risks facing energy infrastructure and services<sup>49</sup></li> <li>• Explores opportunities for risk mitigation and resilience, and provides a guide for others to conduct climate vulnerability studies<sup>50</sup></li> </ul> <p><b>Biennial Energy Report</b></p> <ul style="list-style-type: none"> <li>• Overview of climate change risks and impacts to energy use and infrastructure<sup>51</sup></li> </ul>	<p><b>Community Renewable Energy Grant Program</b></p> <ul style="list-style-type: none"> <li>• Grants for community renewable energy generation and storage projects<sup>52</sup></li> <li>• Improves energy resilience<sup>53</sup></li> <li>• 50% of funding dedicated to environmental justice communities<sup>54</sup></li> </ul> <p><b>Energy Efficient Wildfire Rebuilding Incentive</b></p> <ul style="list-style-type: none"> <li>• Provides grant incentives for energy efficient rebuilding of destroyed structures<sup>55</sup></li> </ul> <p><b>Research into development of alternative energy resources</b></p> <ul style="list-style-type: none"> <li>• Renewable Hydrogen Study (expected 2022)<sup>56</sup></li> <li>• Floating Offshore Wind Energy Study<sup>57</sup></li> <li>• Small-Scale and Community-Based Renewable Energy Projects Study<sup>58</sup></li> </ul>	<p><b>Biennial Energy Report</b></p> <p>Reports in 2018, 2020, and 2022 include analysis and resources on climate change including:</p> <ul style="list-style-type: none"> <li>• Statewide GHG emission data and statistics</li> <li>• Goals and climate commitments</li> <li>• Risks and impacts</li> <li>• Deep decarbonization pathways</li> <li>• Clean energy and renewable standards</li> <li>• Energy efficiency and net-zero buildings</li> <li>• Energy sector climate vulnerability assessment</li> <li>• Electric vehicles and chargers</li> <li>• Hydrogen fuel cell vehicles</li> <li>• Renewable and zero-emission vehicle standards</li> <li>• Truck fuel efficiency</li> <li>• Alternative fuels assessments</li> <li>• Transportation fuels assessments</li> <li>• Carbon capture and storage</li> </ul>

requirements.<sup>46 47</sup>

**Heat Pump Program<sup>139</sup>**

- \$25M provided in SB 1536 (2022) for grants and rebates to replace mainly bulk fuel based and electric resistance heating systems with heat pumps to provide both cooling and more efficient heating to residents

**Built Environment Efficiency Working Group - Lead**

Tasked with reducing energy consumption and emissions related to the built environment<sup>48</sup>

**Renewable Portfolio Standards for Investor-Owned Utilities and Energy Service Suppliers – See PUC**

**Zero Emission Vehicle Interagency Working Group - See ODOT**

**Every Mile Counts – See ODOT**

**Roadmap to 2035 – See OGWC**

**Biennial Energy Report**

- Evaluation of current GHG reduction targets and projected impacts<sup>59</sup>
- Findings used to inform future GHG reduction strategies<sup>60</sup>

**Oregon’s Climate Change Adaptation Framework – See DLCD**

**Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD**

**Oregon Renewable Energy Siting Assessment (ORESA) – Co-Lead**

- Developed a mapping tool to help inform the siting of new renewable energy resources<sup>61</sup>

**Natural & Working Lands Proposal – See OGWC**

- Wildfire mitigation planning
- Agriculture sector GHG emissions analysis
- Renewable energy resource and technology reviews
- Overview of effects of energy development and consumption on climate, opportunities to mitigate emissions through energy efficiency and clean energy development, and climate change risks and impacts to energy use and infrastructure<sup>62</sup>
- Audience: general

**Resources on ODOE website**

- Electric Vehicle Dashboard<sup>63</sup>
- Solar Dashboard<sup>64</sup>
- Links to reports/publications<sup>65</sup>
- Program information<sup>66</sup>
- Audience: energy industry/general

**Educational outreach on energy efficiency and clean energy**

- Direct school engagement<sup>67</sup>
- Activities and

			<p>materials on ODOE website<sup>68</sup></p> <ul style="list-style-type: none"><li>• Audience: children and students</li></ul> <p><b>Grounded Podcast</b></p> <ul style="list-style-type: none"><li>• Exploration of energy landscape in Oregon<sup>69</sup></li><li>• Audience: general</li></ul> <p><b>Roadmap to 2035 – See OGWC</b></p>
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## Oregon Department of Fish & Wildlife

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>ODFW wildlife area carbon sequestration</b></p> <ul style="list-style-type: none"> <li>The approximately 200,000 acres of wildlife and recreation lands managed by ODFW sequesters 61,000 MTCO<sub>2</sub>e per year<sup>70</sup></li> </ul> <p><b>ODFW GHG Emissions Reduction Plan</b></p> <ul style="list-style-type: none"> <li>The ODFW GHG Emissions Baseline Assessment (2019-2020) estimated agency operations generate 9,280 MTCO<sub>2</sub>e per year<sup>71</sup></li> <li>The ODFW GHG Emissions Reduction Plan will be released by the end of 2022, identifying goals and targets for reducing agency GHG emissions</li> </ul>	<p><b>Oregon Connectivity Assessment and Mapping Project (OCAMP)</b><sup>140</sup></p> <ul style="list-style-type: none"> <li>High resolution habitat connectivity mapping effort for 60 species<sup>72</sup></li> <li>Data used for species and ecosystem conservation and protection<sup>73</sup></li> </ul> <p><b>Strategy Species List</b></p> <ul style="list-style-type: none"> <li>Identifies Oregon’s species of greatest conservation need, highlighting species particularly vulnerable to climate change</li> </ul> <p><b>Aquatic habitat prioritization</b></p> <ul style="list-style-type: none"> <li>Assessing climate resilience of aquatic habitat across the state</li> <li>Focuses on instream water conservation and fish passage efforts</li> </ul> <p><b>Ongoing environmental monitoring</b></p> <ul style="list-style-type: none"> <li>Re-aligned monitoring of aquatic species and</li> </ul>	<p><b>Climate and Ocean Change Policy</b></p> <ul style="list-style-type: none"> <li>Incorporating a climate lens in programs, policies, and expenditures (as directed by OAR Chapter 635, Division 900)</li> </ul> <p><b>Thermal Angling Sanctuaries</b></p> <ul style="list-style-type: none"> <li>Creation of protected cold-water refuges during warmest months to protect migrating species from high water temperatures<sup>76</sup></li> <li>Developing consistent guidelines for modifying angling regulations to protect fish during climate-driven downturns (such as warmer than average water temperatures)</li> </ul> <p><b>Oregon Ocean Acidification and Hypoxia Report</b></p> <ul style="list-style-type: none"> <li>Identified opportunities for all state agencies to reduce ocean acidification and</li> </ul>	<p><b>Drought Outreach Campaign via Oregon Conservation and Recreation Fund</b></p> <ul style="list-style-type: none"> <li>Large investment in targeted marketing campaign highlighting the impacts of drought on fish and wildfire, ongoing drought being driven by climate change, and opportunities for the public to help fish and wildlife persist.</li> <li>Audience: General</li> </ul> <p><b>Climate and Ocean Change Communications Plan</b></p> <ul style="list-style-type: none"> <li>Developing comprehensive communications to educate the public on the impacts of climate and ocean change on fish, wildlife, and their habitats</li> <li>Audience: General</li> </ul> <p><b>Ocean Conservation Strategy</b></p> <ul style="list-style-type: none"> <li>Oregon’s State Wildlife Action Plan identifies climate change as one of the seven Key</li> </ul>

	<p>habitat conditions and change over time<sup>74</sup></p> <p><b>Assessment of climate vulnerability for the hatchery system</b></p> <ul style="list-style-type: none"> <li>• Identification of increased risks to hatchery infrastructure from wildfire, flooding, hypoxia, drought, etc.<sup>75</sup></li> </ul>	<p>hypoxia</p> <p><b>Conservation Opportunity Areas</b></p> <ul style="list-style-type: none"> <li>• Focusing investments and conservation efforts on locations across the state to support the highest number of species of greatest conservation need, providing intact habitats, act as climate refugia, and connect vital landscapes</li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p> <p><b>Oregon Renewable Energy Siting Assessment (ORESAs) – See ODOE</b></p>	<p>Conservation Issues in Oregon, providing background information and identifying priority goals and actions for Oregonians</p> <ul style="list-style-type: none"> <li>• Audience: General</li> </ul>
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## Oregon Department of Forestry (ODF)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Adapting forest management to reduce wildfire risk</b></p> <ul style="list-style-type: none"> <li>• Reduces biogenic carbon emissions from fires<sup>77</sup></li> </ul> <p><b>Carbon sequestration in wildland forests</b></p> <ul style="list-style-type: none"> <li>• Works to avoid net reduction in sequestered carbon (relative to 1974)<sup>78</sup></li> </ul>	<p><b>Assessment of forest health and composition in a changing climate</b></p> <ul style="list-style-type: none"> <li>• Collaborative effort with U.S. National Forest Inventory Program to inventory and measure changes in tree species distribution, range, etc.<sup>79</sup></li> </ul>	<p><b>ODF Climate Change and Carbon Plan (2021)</b></p> <ul style="list-style-type: none"> <li>• Identifies opportunities and goals for wildfire management, mitigation, and adaptation<sup>80</sup></li> <li>• Explores incentives and rulemaking for appropriate stewardship of private forestland<sup>81</sup></li> <li>• Expands resources for urban and community forests<sup>82</sup></li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p> <p><b>Climate Equity Blueprint – See OHA</b></p> <p><b>Natural &amp; Working Lands Proposal – See OGWC</b></p>	<p><b>Resources on ODF website</b></p> <ul style="list-style-type: none"> <li>• Climate Change and Carbon Plan information and webinar<sup>83</sup></li> <li>• Blogs on wildfire and carbon sequestration in harvested wood products<sup>84</sup></li> <li>• Audience: wood products industry/general</li> </ul>



## Oregon Department of Transportation (ODOT) and Oregon Transportation Commission (OTC)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>West Coast Electric Highway</b></p> <ul style="list-style-type: none"> <li>• West Coast regional corridor of charging stations for zero emission vehicles<sup>85</sup></li> <li>• 1.3 million kilowatt-hours of charging to date<sup>86</sup></li> <li>• Upgrades in 2022-2023 expanding access</li> </ul> <p><b>Piloting road user charges, tolls, and other pricing tools</b></p> <ul style="list-style-type: none"> <li>• Market incentives to reduce driving<sup>87</sup></li> <li>• Potential for large-scale implementation later this decade<sup>88</sup></li> </ul> <p><b>Intensification of investment in no-/low-emission transportation infrastructure</b></p> <ul style="list-style-type: none"> <li>• \$55 million funding increase for walking and biking transportation infrastructure<sup>89</sup></li> </ul> <p><b>EV charging infrastructure plans and investments</b></p> <ul style="list-style-type: none"> <li>• National EV Infrastructure (NEVI) program provides \$52 million federal/\$13 million non-federal match funding over 5 years to build fast</li> </ul>	<p><b>Transportation infrastructure climate vulnerability assessment</b></p> <ul style="list-style-type: none"> <li>• Evaluation of risks associated with sea level rise, coastal erosion, landslides, flooding, and wildfire hazards and impacts on transportation infrastructure, as well as condition assessment of current infrastructure assets<sup>92</sup></li> </ul>	<p><b>Active Transportation Needs Inventory</b></p> <ul style="list-style-type: none"> <li>• Data collection on pedestrian/bike infrastructure deficiencies<sup>93</sup></li> <li>• Will be used to target funding of future infrastructure development<sup>94</sup></li> </ul> <p><b>Statewide Climate Change Adaptation and Resilience Plan</b></p> <ul style="list-style-type: none"> <li>• Identification of needs, goals, and strategies to contend with projected future climate conditions and hazards<sup>95</sup></li> </ul> <p><b>Net-Zero Transit Pilot Project</b></p> <ul style="list-style-type: none"> <li>• Assessing options to reduce emissions from public transit through lower carbon fuel use and zero-emission vehicle adoption</li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p>	<p><b>Resources on ODOT Climate Office website</b></p> <ul style="list-style-type: none"> <li>• General information, reports, program information, climate hazard factsheets, etc.<sup>96</sup></li> <li>• Audience: general</li> </ul>

<p>charging stations on corridors</p> <ul style="list-style-type: none"> <li>• Community EV Charging Rebate program (2022) for Level 2 charging investments, largely in disadvantaged communities</li> <li>• Section 11401 of Bipartisan Infrastructure Law (2021) establishes \$2.5 billion competitive grants for fueling infrastructure in communities and corridors, over 5 years</li> <li>• Transportation Electrification Infrastructure Needs Analysis (TEINA) (2021; 2022 update) identifies charging gaps and needed investments in charging infrastructure in rural, underserved, and urban areas throughout Oregon, with goals and deployment strategies</li> </ul> <p><b>Statewide Transportation Improvement Program</b></p> <ul style="list-style-type: none"> <li>• Planning includes evaluating GHG emissions resulting from transportation projects</li> <li>• \$55 million increase for walking and biking transportation infrastructure in 2024-27 cycle</li> </ul>		<p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p> <p><b>Climate Equity Blueprint – See OHA</b></p>	
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**Operations and Maintenance GHG Inventory**

- Assessment of GHG inventory for emissions associated with agency maintenance and construction operations for the development of reduction strategies

**Zero Emission Vehicle Interagency Working Group - Lead convener**

- Increases the rate of adoption of electric vehicle use through regulation, investment, and infrastructure development<sup>90</sup>

**Every Mile Counts - Lead convener**

- Identification, prioritization, and implementation of opportunities to reduce GHG emissions from transportation<sup>91</sup>

**Transportation and Growth Management Program – see DLCD**

## Oregon Health Authority

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Healthy Homes Grant Program</b></p> <ul style="list-style-type: none"> <li>Grant supporting weatherization and retrofits for reduced energy consumption and climate resilience<sup>97</sup></li> </ul>	<p><b>Climate and Health in Oregon - 2020 Report</b></p> <ul style="list-style-type: none"> <li>Assessment of current/projected health risks associated with climate hazards<sup>98</sup></li> <li>Exploration of cross-cutting effects of climate change (e.g., on livelihoods, housing, mental health, etc.)<sup>99</sup></li> </ul> <p><b>Climate Change and Social Resilience (2020)</b></p> <ul style="list-style-type: none"> <li>Analysis of impacts of climate change on social/community health<sup>100</sup></li> </ul> <p><b>Research on effects of climate change on youth depression</b></p> <ul style="list-style-type: none"> <li>Participatory, community-based study, with emphasis on intersectionality, especially for youth of color and Indigenous youth<sup>101</sup></li> </ul> <p><b>2021 State Modernization Investment (\$37.9 million) to Local Public Health Agencies (LPHAs) and Tribes</b></p>	<p><b>Oregon Climate and Health Resilience Plan (2017)</b></p> <ul style="list-style-type: none"> <li>Identifies needs and makes recommendations to modernize and equip healthcare community to manage climate related health hazards<sup>102</sup></li> </ul> <p><b>Oregon ESSENCE (Electronic Surveillance System for the Early Notification of Community-Based Epidemics)</b></p> <ul style="list-style-type: none"> <li>Statewide public health monitoring system of incidences of climate change-related health hazards leading to visits to medical treatment centers<sup>103</sup></li> </ul> <p><b>2021 State Modernization Investment (\$10 million) to Community-Based Organizations (CBOs)</b></p> <ul style="list-style-type: none"> <li>OHA awarded funds to 35-40 individual CBOs across the state to lead local climate resilience</li> </ul>	<p><b>Climate Change Resilience Planning Toolkit</b></p> <ul style="list-style-type: none"> <li>Tools and resources to prepare for changing healthcare needs related to climate change<sup>105</sup></li> <li>Audience: healthcare community</li> </ul> <p><b>Resources on OHA website</b></p> <ul style="list-style-type: none"> <li>Reports, presentations, handouts, videos, local adaptation plans, training materials, etc.<sup>106</sup></li> <li>Audience: healthcare community/general</li> </ul> <p><b>Culturally Responsive Climate and Health Curricula</b></p> <ul style="list-style-type: none"> <li>OHA is funding Oregon Community Health Workers Association (ORCHWA) to develop and deliver a culturally responsive climate and health curricula, for Community Health Workers across the state. ORCHWA will also be available to</li> </ul>

	<ul style="list-style-type: none"> <li>• LPHAs are asked to protect communities from environmental health threats from climate change through public health interventions that support equitable climate adaptation. The LPHA will demonstrate strategies toward developing a local or regional climate adaptation plan or incorporate into community health assessment.</li> <li>• Tribes are asked to perform Environmental Health, climate change and emergency preparedness activities, technical assistance, and training</li> </ul>	<p>projects.</p> <p><b>Building Resilience Against Climate Effects (BRACE)</b></p> <ul style="list-style-type: none"> <li>• This federal grant supports the Climate and Health program to advance equitable climate adaptation through collaboration across all levels of government and with community partners serving priority populations</li> </ul> <p><b>Climate Equity Blueprint - Lead</b></p> <ul style="list-style-type: none"> <li>• Provides agencies with guidance on how to design and implement programs to advance equity<sup>104</sup></li> </ul> <p><b>Oregon's Climate Change Adaptation Framework – See DLCD</b></p> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p>	<p>consult smaller organizations planning community education interventions through Public Health Modernization Audience: community health workers</p>
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## Oregon Water Resources Department (OWRD)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Water conservation programs</b></p> <ul style="list-style-type: none"> <li>• Reduction of energy use as a co-benefit of programs to increase water efficiency<sup>107</sup></li> </ul>	<p><b>Oregon’s Integrated Water Resources Strategy (2017)</b></p> <ul style="list-style-type: none"> <li>• Analysis of water needs and pressures, including climate change-related impacts<sup>108</sup></li> </ul> <p><b>2015 Statewide Long-Term Water Demand Forecast</b></p> <ul style="list-style-type: none"> <li>• Projection of the future water needs of the state with consideration of climate change scenarios<sup>109</sup></li> </ul>	<p><b>Use of incentives and place-based water resource planning to reduce water use</b></p> <ul style="list-style-type: none"> <li>• Increased resilience to water scarcity<sup>110</sup></li> <li>• Reduction of energy use related to efficiency improvements and the energy-water nexus<sup>111</sup></li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p> <p><b>Climate Equity Blueprint – See OHA</b></p>	<p><b>Resources on OWRD Website</b></p> <ul style="list-style-type: none"> <li>• Curated resources for “Drought” and “Wildfire Recovery” topics</li> <li>• Audience: general<sup>112</sup></li> </ul> <p><b>See also:</b> publications in assessment category</p>

## Oregon Watershed Enhancement Board

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Riparian reforestation and wetland restoration grant programs</b></p> <ul style="list-style-type: none"> <li>Sequestering 5 to 10 MTCO<sub>2</sub>e per hectare per year<sup>113</sup></li> </ul> <p><b>Grants that support prevention of land use change (preservation of forest, grassland, etc.)</b></p> <ul style="list-style-type: none"> <li>Avoiding release of 16 to 300 MTCO<sub>2</sub>e per hectare per year<sup>114</sup></li> </ul>	<p>No activities in this category</p>	<p><b>Climate Resolution:</b></p> <ul style="list-style-type: none"> <li>Directs the agency to integrate emissions reductions, carbon sequestration and storage, and adaptation and resilience in their budgeting, investing, and policy-making decisions</li> </ul> <p><b>Land management strategies eligible for OWEB grant funding:</b></p> <ul style="list-style-type: none"> <li>Use of forest conservation and restoration practices designed to reduce/mitigate fire risk<sup>115</sup></li> <li>Riparian restoration efforts designed to mitigate effects of drought and heat on fish/wildlife<sup>116</sup></li> <li>Management of wetlands and floodplains for mitigation of improved filtration and storage of surface runoff<sup>117</sup></li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p>	<p><b>Climate-Related Technical Resources for OWEB Grant Applicants (2021)</b></p> <ul style="list-style-type: none"> <li>Projected climate impacts and hazards related to watersheds, water quality, native species, habitats<sup>118</sup></li> <li>Information on external tools/resources<sup>119</sup></li> <li>Audience: OWEB grant applicants/general</li> </ul>

**Interagency Working  
Group on Climate  
Impacts to Impacted  
Communities – See  
DLCD**

**Natural & Working  
Lands Proposal – See  
OGWC**



## Oregon Public Utility Commission (PUC)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Energy efficiency investments through Energy Trust of Oregon</b></p> <ul style="list-style-type: none"> <li>Reduction of 4.3 MMTCO<sub>2</sub>e from 2016 to 2020<sup>120</sup></li> </ul> <p><b>Regulate 100% clean electricity by utilities</b></p> <ul style="list-style-type: none"> <li>Requires 80% GHG emissions reductions (below baseline emissions) by 2030, 90% by 2035, and 100% by 2040<sup>121</sup></li> <li>Projected reduction of 12 MMTCO<sub>2</sub>e from 2021 to 2030<sup>122</sup></li> </ul> <p><b>Oversight of 90% GHG reduction from gas utilities by 2050<sup>iv</sup></b></p> <ul style="list-style-type: none"> <li>Ensure gas utilities meet targets set by DEQ in Climate Protection Program in least-cost, least-risk manner</li> </ul> <p><b>Enforce Renewable Portfolio Standards for Investor-Owned Utilities and Energy Service Suppliers</b></p> <ul style="list-style-type: none"> <li>Requires at least 20% of electricity sold by the electric utility or electricity service supplier in 2020 be 'qualified' renewable energy</li> </ul>	<p><b>Hosted Wildfire Dialogue of West Coast Utility Commissions</b></p> <ul style="list-style-type: none"> <li>Collaborative discussion/assessment of wildfire hazards to utilities<sup>123</sup></li> </ul> <p><b>Established requirement for utilities to assess climate risks</b></p> <ul style="list-style-type: none"> <li>Requires utilities to include assessment of climate risks posed to generation and distribution capacity in their integrated resource plans (IRPs)<sup>124</sup></li> <li>Update approach to avoided costs across all technology planning and acquisition that prices in value of GHG reduction and reduces climate risk.</li> <li>Require best available climate science in IRPs including weather forecasting and hydroelectric availability</li> <li>All gas and electric IOUs employ the use</li> </ul>	<p><b>Wildfire rulemaking (AR 638)<sup>141</sup></b></p> <ul style="list-style-type: none"> <li>Per EO 20-04 and SB 762, rulemaking to reduce/mitigate hazard risk to utilities from wildfires and other extreme weather events (e.g., modification to vegetation management rules)<sup>125</sup></li> </ul> <p><b>Exploring resiliency to climate change events in utility planning and investing</b></p> <ul style="list-style-type: none"> <li>As part of HB 2021,<sup>142</sup> explore utility planning and future investing in grid resiliency</li> <li>Increased direction to gas and electric IOUs to produce climate vulnerability and/or adaptation sections in their long-term planning documents</li> </ul>	<p><b>Oregon Wildfire &amp; Electric Collaborative - Wildfire Mitigation Workshop Series</b></p> <ul style="list-style-type: none"> <li>Workshop series to develop and share best practices to reduce wildfire risk and damage<sup>126</sup></li> <li>Audience: energy utilities</li> </ul>

- Requirement increases incrementally every five years to 50% by 2040

**Enable procurement of Renewable Natural Gas by natural gas utilities**

- Supports qualified renewable natural gas investments up to 5% in each calendar year 2020-2024, increasing every 5 years up to 30% for years 2045-2050

**Implement utility Transportation Electrification investment framework and updated approach to TE planning**

- Per HB 2165 and EO 20-04, developed with stakeholders an enhanced approach to utility investing and planning that supports more rapid electrification of transportation

**Zero Emission Vehicle Interagency Working Group - See ODOT**

**Built Environment Efficiency Working Group - See ODOE**

**Roadmap to 2035 – See OGWC**

of the social cost of carbon when assessing portfolios of resources to meet energy needs

- Conducted Natural Gas Fact Finding to explore with stakeholders the regulatory tools that could be employed by the Commission to encourage/ support gas utilities to meet GHG reduction targets and mitigate associated customer risks

**Oregon’s Climate Change Adaptation Framework – See DLCD**

**Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD**

**Oregon Renewable Energy Siting Assessment (ORESAs) – See ODOE**

## Environmental Justice Council<sup>i</sup>

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><i>No activities in this category</i></p>	<p><b>Development of an Environmental Justice Mapping Tool as described HB 4077, passed by the Oregon Legislature in 2021</b></p> <ul style="list-style-type: none"> <li>• The tool will include environmental, health, socioeconomic, and other factors and will help define EJ communities in Oregon</li> <li>• Uses for the tool can include informing benefits while diminishing burdens for EJ communities</li> <li>• Provide GIS map layers that will be compatible with other mapping tools at state agencies to enable more specific data analysis and comparisons</li> </ul>	<p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p> <p><b>Climate Equity Blueprint – See OHA</b></p>	<p><b>Environmental Justice Task Force Handbook</b></p> <ul style="list-style-type: none"> <li>• Best practices guidebook for state natural resource agencies to integrate environmental justice concerns, including effects of climate change into agency programs, actions, and decisions</li> <li>• Audience: State natural resource agencies, boards, and commissions</li> </ul>

<sup>i</sup> Formerly the Environmental Justice Task Force, which was renamed in the passage of [HB 4077](#) in 2022.

## Oregon Climate Change Research Institute (OCCRI)

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><i>No activities in this category</i></p>	<p><b>Oregon Climate Assessments</b></p> <ul style="list-style-type: none"> <li>• Biennial assessment of current and projected effects of climate change in Oregon<sup>127</sup></li> </ul> <p><b>Assessing Climate Risks for Oregon Counties</b></p> <ul style="list-style-type: none"> <li>• Developing county-level natural hazard mitigation plans that include climate change-related hazards (in partnership with DLCD)</li> </ul> <p><b>Oregon’s Climate Change Vulnerability Assessment – See DLCD</b></p> <ul style="list-style-type: none"> <li>• Producing content and graphics for visuals that will be used in 12 regional workshops</li> </ul>	<p><b>Provision of technical support for the development of policies and programs responding to effects of climate change</b></p> <ul style="list-style-type: none"> <li>• Local, state, and regional levels, in partnerships with utilities and other groups<sup>128</sup></li> </ul> <p><b>Oregon’s Climate Change Adaptation Framework – See DLCD</b></p>	<p><b>Media contributions on climate change (local-national)</b></p> <ul style="list-style-type: none"> <li>• Local and national contributions to climate change-related journalism<sup>129</sup></li> <li>• Presentations on climate change and its effects at the invitation of diverse governmental, nongovernmental, educational, and civic groups.</li> <li>• Audience: sector-based, general.</li> </ul> <p><b>Publication of peer-reviewed papers</b></p> <ul style="list-style-type: none"> <li>• Contributions to scientific literature related to climate change in Oregon<sup>130</sup></li> <li>• Audience: academic</li> </ul> <p><b>See also:</b> Oregon climate assessments in assessments category</p>

## Oregon Global Warming Commission

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><b>Roadmap to 2035</b></p> <ul style="list-style-type: none"> <li>• Develop an economy-wide, Oregon-specific model that forecasts expected emission reductions from state programs and regulations<sup>131</sup></li> <li>• Provide decision-makers with recommendations for future actions the state should take to reduce Oregon’s greenhouse gas emissions<sup>132</sup></li> </ul>	<p><i>No activities in this category</i></p>	<p><b>OGWC Biennial Report to the Legislature</b></p> <ul style="list-style-type: none"> <li>• Economy-wide and sector-based recommendations for government response to mitigate emissions and increase resilience in Oregon<sup>133</sup></li> <li>• Assessment of the efficacy and progress of current goals/ programs/policies<sup>134</sup></li> </ul> <p><b>Natural &amp; Working Lands Proposal – Lead</b></p> <ul style="list-style-type: none"> <li>• Development of carbon sequestration and storage goals for Oregon’s natural and working lands<sup>135</sup></li> </ul> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p>	<p><b>Resources on OGWC website</b></p> <ul style="list-style-type: none"> <li>• Publications, reports, links to state and local government climate change resources, links to non-government resources<sup>136</sup></li> <li>• Audience: general</li> </ul>

## Oregon Sustainability Board

Greenhouse Gas Emissions Reductions and Sequestration	Assessment of Climate Risks and Vulnerabilities	Preparing for Climate Change	Educating Oregonians About Climate Change
<p><i>No activities in this category</i></p>	<p><i>No activities in this category</i></p>	<p><b>Review and approval of agency sustainability plans</b></p> <ul style="list-style-type: none"> <li>• Collaboration with state entities to develop plans that meet state and entity goals<sup>137</sup></li> </ul> <p><b>Interagency Working Group on Climate Impacts to Impacted Communities – See DLCD</b></p>	<p><b>Sustainability support and outreach</b></p> <ul style="list-style-type: none"> <li>• Assistance for consumer/industrial product environmental impact assessment<sup>138</sup></li> <li>• Audience: industry/general</li> </ul>

## REFERENCES

- <sup>1</sup> Oregon Exec. Order No. 20-04. (2020, March 10). [https://www.oregon.gov/gov/Documents/executive\\_orders/eo\\_20-04.pdf](https://www.oregon.gov/gov/Documents/executive_orders/eo_20-04.pdf)
- <sup>2</sup> Business Oregon. (n.d.). *Rural Renewable Energy Development (RRED) Zone*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/biz/programs/RuralRenewableEnergyDevelopment%28RRED%29Zone/Pages/default.aspx>
- <sup>3</sup> Solar Development Incentive Program. OAR § 123.093 (2017). <https://secure.sos.state.or.us/oard/displayDivisionRules.action?selectedDivision=197>
- <sup>4</sup> Oregon Department of Administrative Services. (2018, August 9). *2018 Department of Administrative Services Sustainability Plan*. [https://www.oregon.gov/das/Facilities/Documents/SustPln\\_DAS\\_2018.pdf](https://www.oregon.gov/das/Facilities/Documents/SustPln_DAS_2018.pdf)
- <sup>5</sup> Wortman, D. (2021, November 1). *DAS and Oregon Sustainability Board (OSB) efforts to address climate change* [memorandum].
- <sup>6</sup> Oregon Department of Administrative Services. (2020, September 15). *Integrating climate change: Operations, planning, budgeting, investing, fleet, and procurement, Report to Governor Kate Brown*. <https://www.oregon.gov/gov/Documents/DAS-EO20-04-Report-915.pdf>
- <sup>7</sup> Oregon Department of Administrative Services. (2020, September 15). *Integrating climate change: Operations, planning, budgeting, investing, fleet, and procurement, Report to Governor Kate Brown*. <https://www.oregon.gov/gov/Documents/DAS-EO20-04-Report-915.pdf>

- <sup>8</sup> Oregon Department of Consumer and Business Services Building Codes Division. *Energy Code Program*. Retrieved October 19, 2022, from <https://www.oregon.gov/bcd/codes-stand/Pages/energy-efficiency.aspx>
- <sup>9</sup> Oregon Department of Consumer and Business Services Building Codes Division. *Reach Code*. Retrieved October 19, 2022, from <https://www.oregon.gov/bcd/codes-stand/Pages/reach.aspx>
- <sup>10</sup> Written Communication from the Oregon Department of Administrative Services to the Oregon Department of Energy, Nov. 1, 2021 (on file with department).
- <sup>11</sup> Oregon Department of Consumer and Business Services, Building Code Division, *Fire Hardening Grant Program*, <https://www.oregon.gov/bcd/pages/firehardening.aspx>.
- <sup>12</sup> Oregon Department of Consumer and Business Services, Oregon Occupational Safety and Health, *Rulemaking to Protect Employees from Unhealthy Levels of Wildfire Smoke*, <https://osha.oregon.gov/rules/advisory/smoke/Pages/default.aspx>.
- <sup>13</sup> Written Communication from the Oregon Department of Administrative Services to the Oregon Department of Energy, Nov. 1, 2021 (on file with department).
- <sup>14</sup> Oregon Department of Consumer and Business Services, Oregon Occupational Safety and Health, Key Requirements: Oregon OSHA's Permanent Rules for Protection from Wildfire Smoke, <https://osha.oregon.gov/OSHAPubs/factsheets/fs92.pdf>.
- <sup>15</sup> Oregon Department of Consumer and Business Services, Oregon Occupational Safety and Health, *Wildfires*, <https://osha.oregon.gov/Pages/topics/wildfires.aspx>.
- <sup>16</sup> Oregon Department of Land Conservation and Development. (n.d.). *Climate-Friendly and Equitable Communities rulemaking*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/LAR/Pages/CFEC.aspx>
- <sup>17</sup> Oregon Department of Land Conservation and Development. (n.d.). *About the Transportation and Growth Management Program*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/TGM/Pages/About.aspx>
- <sup>18</sup> Oregon Department of Land Conservation and Development. (n.d.). *Natural Hazards Mitigation Planning*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/NH/Pages/Mitigation-Planning.aspx>
- <sup>19</sup> Oregon Department of Land Conservation and Development. (n.d.). *Oregon Coastal Management Program: Hazard mitigation*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/OCMP/Pages/Hazard-Mitigation.aspx>
- <sup>20</sup> Oregon Department of Land Conservation and Development. (n.d.). *Climate Change Vulnerability Assessment*. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/CL/Pages/Vulnerability-Assessment.aspx>
- <sup>21</sup> Oregon Department of Land Conservation and Development. (n.d.). *National Flood Insurance Program (NFIP) in Oregon*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/NH/Pages/NFIP.aspx>
- <sup>22</sup> Oregon Exec. Order No. 20-04. (2020, March 10). [https://www.oregon.gov/gov/Documents/executive\\_orders/eo\\_20-04.pdf](https://www.oregon.gov/gov/Documents/executive_orders/eo_20-04.pdf)
- <sup>23</sup> Oregon Dept. of Land Conservation and Development. (2021). *Oregon Climate Change Adaptation Framework*. [https://www.oregon.gov/lcd/CL/Documents/2021\\_CLIMATE\\_CHANGE\\_ADAPTATION\\_FRAMEWORKandBlue\\_print.pdf](https://www.oregon.gov/lcd/CL/Documents/2021_CLIMATE_CHANGE_ADAPTATION_FRAMEWORKandBlue_print.pdf)
- <sup>24</sup> Oregon Department of Land Conservation and Development. (n.d.). *State of Oregon NFIP training calendar 2021*. [https://www.oregon.gov/lcd/NH/Documents/Oregon\\_NFIP\\_Training\\_Calendar\\_2021.pdf](https://www.oregon.gov/lcd/NH/Documents/Oregon_NFIP_Training_Calendar_2021.pdf)

- 25 Oregon Department of Land Conservation and Development. (n.d.). *Climate Change Resources*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/lcd/CL/Pages/Climate-Change-Resources.aspx>
- 26 Oregon Department of Environmental Quality. (n.d.). *Greenhouse Gas Emissions Program 2021*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/deq/rulemaking/Pages/rghgcr2021.aspx>
- 27 Oregon Department of Environmental Quality. *Clean Fuels Program Overview*. Retrieved October 17, 2022, from <https://www.oregon.gov/deq/ghgp/cfp/Pages/CFP-Overview.aspx>
- 28 Oregon Department of Environmental Quality. (n.d.). *2020 annual cost of the Clean Fuels Program*. <https://www.oregon.gov/deq/ghgp/Documents/cfp2020AvgCost.pdf>
- 29 Center for Sustainable Energy. (n.d.). *Oregon Clean Vehicle Rebate Project*. Energycenter.org. Oregon.gov. Retrieved February 16, 2022, from <https://energycenter.org/program/oregon-clean-vehicle-rebate-project>
- 30 Oregon Department of Environmental Quality, (2021, November) EQC staff report and fiscal statement. [https://www.oregon.gov/deq/EQCdocs/111721\\_C\\_CleanTrucks.pdf](https://www.oregon.gov/deq/EQCdocs/111721_C_CleanTrucks.pdf)
- 31 Oregon Department of Environmental Quality. *Oregon's Clean Car Standards*. Retrieved October 17, 2022, from <https://www.oregon.gov/deq/aq/programs/Pages/ORLEV.aspx>
- 32 See Oregon Department of Environmental Quality, Clean Fuels Program: Program Review for the 2022 Oregon Legislature 10-13 (Feb. 1, 2022), <https://www.oregon.gov/deq/ghgp/Documents/CFP-ProgramReview.pdf>.
- 33 Oregon Department of Environmental Quality. *Air Quality Monitoring*, <https://www.oregon.gov/deq/aq/Pages/Air-Quality-Monitoring.aspx>.
- 34 Oregon Department of Environmental Quality. *Air Quality: Resources for Community Response Plans and Smoke Management*, <https://www.oregon.gov/deq/aq/Pages/Smoke-Resources.aspx>.
- 35 Oregon Department of Environmental Quality. *Food Strategic Planning*, <https://www.oregon.gov/deq/mm/food/Pages/foodwastestrategy.aspx>.
- 36 Oregon Department of Environmental Quality. *Food Strategic Planning*, <https://www.oregon.gov/deq/mm/food/Pages/foodwastestrategy.aspx>.
- 37 Oregon Department of Environmental Quality. (n.d.). *Action on Climate Change: DEQ's mission to be a leader in restoring, maintaining, and enhancing the quality of Oregon's air, land, and water*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/deq/ghgp/Pages/default.aspx>
- 38 Oregon Department of Environmental Quality. (n.d.). *GreenState DEQ podcast*. Soundcloud.com. Retrieved February 23, 2022, from <https://soundcloud.com/greenstate-podcast>
- 39 Oregon Department of Environmental Quality. (n.d.). *About this blog*. DEQblog.com. Retrieved February 23, 2022, from <https://deqblog.com/about-this-blog/>
- 40 Taylor, A. (2021, November 1). *Conference of Parties on climate change* [memorandum].
- 41 Oregon Department of Energy, Oregon Solar + Storage Rebate Program: 2022 Program Report (Sept. 15, 2022), <https://www.oregon.gov/energy/Data-and-Reports/Documents/2022-OSSRP-Annual-Report.pdf>.
- 42 Oregon Department of Energy, Oregon Solar + Storage Rebate Program: 2022 Program Report 5 (Sept. 15, 2022), <https://www.oregon.gov/energy/Data-and-Reports/Documents/2022-OSSRP-Annual-Report.pdf>.
- 43 Oregon Department of Energy. (n.d.). *Energy Efficient Schools Program*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/Schools-Program.aspx>.
- 44 Oregon Department of Energy. (n.d.). *Energy efficiency standards: Appliances and other products*. Oregon.gov. Retrieved February 16, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/Appliance-Standards.aspx>



- 45 Oregon Department of Energy, Executive Order 17-20: Improved State Standards for Appliances 15 (Nov. 2018), <https://www.oregon.gov/energy/Get-Involved/Documents/2018-Appliance-Standards-Report.PDF>.
- 46 Oregon Department of Energy. *Energy Facility Siting Council Rulemaking*. Retrieved October 17, 2022, from <https://www.oregon.gov/energy/Get-Involved/Pages/Energy-Facility-Siting-Council-Rulemaking.aspx#22CSR>
- 47 Energy Facility Siting Council (2022, April 27). Notice of Proposed Rulemaking for Implementation of HB 2021 (2021) and Updates to Carbon Dioxide Emissions Standards. [https://sos.oregon.gov/archives/Pages/oregon\\_administrative\\_rules.aspx](https://sos.oregon.gov/archives/Pages/oregon_administrative_rules.aspx)
- 48 Oregon Department of Energy. (n.d.). *Built Environment Efficiency Working Group*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/Get-Involved/Pages/BEEWG.aspx>
- 49 Oregon Department of Energy. (2020). *2020 biennial energy report: Policy briefs*. <https://www.oregon.gov/energy/Data-and-Reports/Documents/2020-BER-Policy-Briefs.pdf>
- 50 Oregon Department of Energy. (2020). *2020 biennial energy report: Policy briefs*. <https://www.oregon.gov/energy/Data-and-Reports/Documents/2020-BER-Policy-Briefs.pdf>
- 51 Oregon Department of Energy, *Biennial Energy Report*, <https://www.oregon.gov/energy/Data-and-Reports/Pages/Biennial-Energy-Report.aspx>.
- 52 Oregon Department of Energy, *Community Renewable Energy Grant Program*, <https://www.oregon.gov/energy/Incentives/Pages/CREP.aspx>.
- 53 Oregon Department of Energy, *Community Renewable Energy Grant Program*, <https://www.oregon.gov/energy/Incentives/Pages/CREP.aspx>.
- 54 Oregon Department of Energy, *Community Renewable Energy Grant Program*, <https://www.oregon.gov/energy/Incentives/Pages/CREP.aspx>.
- 55 Oregon Department of Energy, *Energy Efficient Wildfire Rebuilding Incentive*, <https://www.oregon.gov/energy/Incentives/Pages/EEWR.aspx>.
- 56 Oregon Department of Energy. *Renewable Hydrogen Study*. Retrieved October 18, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/rh2.aspx>
- 57 Oregon Department of Energy. *Floating Offshore Wind Study: Benefits & Challenges for Oregon*. Retrieved October 18, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/fosw.aspx>
- 58 Oregon Department of Energy. *Small-Scale & Community-Based Renewable Energy Projects Study*. Retrieved October 18, 2022, from <https://www.oregon.gov/energy/Data-and-Reports/Pages/SSREP-Study.aspx>
- 59 Oregon Department of Energy. (2020). *2020 biennial energy report*. <https://www.oregon.gov/energy/Data-and-Reports/Documents/2020-Biennial-Energy-Report.pdf>
- 60 Oregon Department of Energy. (2020). *2020 biennial energy report*. <https://www.oregon.gov/energy/Data-and-Reports/Documents/2020-Biennial-Energy-Report.pdf>
- 61 Oregon Department of Energy. (n.d.). *Oregon Renewable Energy Siting Assessment (ORESAs)*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/ORESAs.aspx>
- 62 Oregon Department of Energy, *Biennial Energy Report*, <https://www.oregon.gov/energy/Data-and-Reports/Pages/Biennial-Energy-Report.aspx>
- 63 Oregon Department of Energy. (n.d.). *Oregon electric vehicle dashboard*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/Data-and-Reports/Pages/Oregon-Electric-Vehicle-Dashboard.aspx>
- 64 Oregon Department of Energy. (n.d.). *Oregon solar dashboard*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/Oregon-Solar-Dashboard.aspx>

- 65 Oregon Department of Energy. (n.d.). *Addressing climate change*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/Climate-Change.aspx>
- 66 Oregon Department of Energy. (n.d.). *Addressing climate change*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/Climate-Change.aspx>
- 67 Oregon Department of Energy. (n.d.). *Energy Efficient Schools Program*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/energy-oregon/Pages/Schools-Program.aspx>
- 68 Oregon Department of Energy. (n.d.). *Activities for kids*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/energy/resources/Pages/Activities-for-Kids.aspx>
- 69 Oregon Department of Energy. (n.d.). *Grounded: An Oregon Department of Energy podcast*. Soundcloud.com. Retrieved February 23, 2022, from <https://soundcloud.com/oregonenergy>
- 70 Oregon Department of Fish and Wildlife. (2021). *Addressing the carbon footprint of ODFW operations: Base year GHG inventory report*. [https://www.dfw.state.or.us/climate\\_ocean\\_change/docs/ODFW%20Baseline%20GHG%20Inventory%20Report\\_Final.pdf#page=7](https://www.dfw.state.or.us/climate_ocean_change/docs/ODFW%20Baseline%20GHG%20Inventory%20Report_Final.pdf#page=7)
- 71 Oregon Department of Fish and Wildlife. (2021). *Addressing the carbon footprint of ODFW operations: Base year GHG inventory report*. [https://www.dfw.state.or.us/climate\\_ocean\\_change/docs/ODFW%20Baseline%20GHG%20Inventory%20Report\\_Final.pdf#page=7](https://www.dfw.state.or.us/climate_ocean_change/docs/ODFW%20Baseline%20GHG%20Inventory%20Report_Final.pdf#page=7)
- 72 Oregon Department of Fish and Wildlife. (n.d.). *The Oregon Connectivity Assessment and Mapping Project (OCAMP)*. Oregonconservationstrategy.org. Retrieved February 23, 2022, from <https://oregonconservationstrategy.org/success-story/the-oregon-connectivity-assessment-and-mapping-project-ocamp/>
- 73 Oregon Department of Fish and Wildlife. (n.d.). *The Oregon Connectivity Assessment and Mapping Project (OCAMP)*. Oregonconservationstrategy.org. Retrieved February 23, 2022, from <https://oregonconservationstrategy.org/success-story/the-oregon-connectivity-assessment-and-mapping-project-ocamp/>
- 74 Oregon Department of Fish and Wildlife. (n.d.). *Monitoring*. Oregonconservationstrategy.org. Retrieved February 23, 2022, from <https://oregonconservationstrategy.org/monitoring/>
- 75 Oregon Department of Fish and Wildlife, Update on Implementation of Executive Order 20-04, <https://www.oregon.gov/gov/Documents/ODFW-Update-Climate-EO-Final.pdf>.
- 76 Or. Admin. R. § 635-023-0129.
- 77 Oregon Department of Forestry, *About the Fire Protection Program*, <https://www.oregon.gov/odf/fire/Pages/default.aspx>.
- 78 Oregon Department of Forestry. (2020). *Report on proposed actions for Executive Order No. 20-04*. <https://www.oregon.gov/odf/Documents/forestbenefits/report-on-proposed-actions-eo-20-04.pdf>
- 79 Oregon Department of Forestry. (2020). *Report on proposed actions for Executive Order No. 20-04*. <https://www.oregon.gov/odf/Documents/forestbenefits/report-on-proposed-actions-eo-20-04.pdf>
- 80 Oregon Department of Forestry. (2021). *The Oregon Department of Forestry climate change and carbon plan*. <https://www.oregon.gov/odf/forestbenefits/Documents/odf-climate-change-and-carbon-plan-draft.pdf>
- 81 Oregon Department of Forestry. (2021). *The Oregon Department of Forestry climate change and carbon plan*. <https://www.oregon.gov/odf/forestbenefits/Documents/odf-climate-change-and-carbon-plan-draft.pdf>

- 82 Oregon Department of Forestry. (2021). *The Oregon Department of Forestry climate change and carbon plan*. <https://www.oregon.gov/odf/forestbenefits/Documents/odf-climate-change-and-carbon-plan-draft.pdf>
- 83 Oregon Department of Forestry. (n.d.). *Climate Change and Carbon Plan*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/odf/forestbenefits/pages/climate-change.aspx>
- 84 Oregon Department of Forestry. (n.d.). [Homepage with links to resources]. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/odf/Pages/index.aspx>
- 85 Oregon Department of Transportation, *Oregon's West Coast Electric Highway*, <https://www.oregon.gov/odot/Programs/Pages/WestCoastElectricHighway.aspx>.
- 86 Written Communication from Oregon Department of Transportation to Oregon Department of Energy, Nov. 1, 2021 (on file with department).
- 87 Oregon Department of Transportation, *OReGO: Oregon's Road Usage Charge Program*, <https://www.oregon.gov/ODOT/Programs/Pages/OReGO.aspx>.
- 88 Oregon Department of Transportation, *Road User Fee Task Force*, <https://www.oregon.gov/odot/Programs/Pages/Road-User-Fee-Task-Force.aspx>.
- 89 Oregon Department of Transportation, *Pedestrian and Bicycle Strategic Funding Program*, <https://www.oregon.gov/odot/STIP/Pages/PBS.aspx>.
- 90 Oregon Department of Energy. (n.d.). *Zero Emission Vehicle Interagency Working Group*. Oregon.gov. Retrieved February 23, 2022, from [State of Oregon: GET INVOLVED - Zero Emission Vehicle Interagency Working Group](#)
- 91 Oregon Department of Transportation. (n.d.). *Statewide Transportation Strategy*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/odot/Planning/Pages/STS.aspx>
- 92 Oregon Department of Transportation, *Climate Change Adaptation and Resilience*, <https://www.oregon.gov/odot/climate/Pages/Adaptation-and-Resilience.aspx>.
- 93 Oregon Department of Transportation, *Statewide Active Transportation Needs Inventory*, <https://www.oregon.gov/odot/RPTD/Pages/Statewide-Active-Transportation-Needs-Inventory.aspx#:~:text=In%20conjunction%20with%20ODOT%20Regions%201%2C%202%2C%203%2C,Bicycle%20and%20Pedestrian%20needs%20for%20all%20ODOT%20highways.>
- 94 Oregon Department of Transportation, *Statewide Active Transportation Needs Inventory*, <https://www.oregon.gov/odot/RPTD/Pages/Statewide-Active-Transportation-Needs-Inventory.aspx#:~:text=In%20conjunction%20with%20ODOT%20Regions%201%2C%202%2C%203%2C,Bicycle%20and%20Pedestrian%20needs%20for%20all%20ODOT%20highways.>
- 95 Oregon Department of Transportation, *Climate Change Vulnerability Assessment and Adaptation Options Study* (Dec. 2014), <https://www.oregon.gov/odot/Programs/TDD%20Documents/Climate-Change-Vulnerability-Assessment-Adaptation-Options-Study.pdf>.
- 96 Oregon Department of Transportation. (n.d.) *Climate Office*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/odot/Programs/Pages/climate%20office.aspx>
- 97 Oregon Health Authority. (2021, November 1). *United Nations climate change conference – COP26: Oregon Health Authority – Climate and Health Program accomplishments and future contributions* [memorandum].
- 98 Oregon Health Authority Public Health Division. (2020). *Climate and health in Oregon 2020 report*. <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/CLIMATECHANGE/Documents/2020/Climate%20and%20Health%20in%20Oregon%202020%20-%20Full%20Report.pdf>
- 99 Oregon Health Authority Public Health Division. (2020). *Climate and health in Oregon 2020 report*. <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/CLIMATECHANGE/Documents/2020/Climate%20and%20Health%20in%20Oregon%202020%20-%20Full%20Report.pdf>

- 100 Oregon Health Authority. (n.d.). *Social Resilience Project*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/CLIMATECHANGE/Pages/social-resilience.aspx>
- 101 Oregon Health Authority. (2021, November 1). *United Nations climate change conference – COP26: Oregon Health Authority – Climate and Health Program accomplishments and future contributions* [memorandum].
- 102 Oregon Health Authority Public Health Division. (2017). *Oregon climate and health resilience plan*. <https://sharedsystems.dhsoha.state.or.us/DHSForms/Served/le8267a.pdf>
- 103 Oregon Health Authority. (2021, November 1). *United Nations climate change conference – COP26: Oregon Health Authority – Climate and Health Program accomplishments and future contributions* [memorandum].
- 104 Oregon Health Authority. (2021). *State of Oregon Climate Equity Blueprint*. [https://www.oregon.gov/lcd/CL/Documents/2021\\_Jan\\_Climate-Equity-Blueprint.pdf](https://www.oregon.gov/lcd/CL/Documents/2021_Jan_Climate-Equity-Blueprint.pdf)
- 105 Oregon Health Authority. (n.d.). *About the toolkit*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/oha/PH/HealthyEnvironments/climatechange/Toolkit/Pages/index.aspx>
- 106 Oregon Health Authority. (n.d.). *Climate change and public health*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/CLIMATECHANGE/Pages/index.aspx>
- 107 Oregon Water Resources Department. (2020, May 15). *Oregon Water Resources Department May 15, 2020 Executive Order No. 20-04 report*. <https://www.oregon.gov/gov/Documents/2020%20OWRD%20EO%2020-04%20Implementation%20Report.pdf>
- 108 Mucken, A., & Bateman, B. (Eds.). (2017). *Oregon's 2017 integrated water resources strategy*. Oregon Water Resources Department. [https://www.oregon.gov/owrd/WRDPublications1/2017\\_IWRS\\_Final.pdf](https://www.oregon.gov/owrd/WRDPublications1/2017_IWRS_Final.pdf)
- 109 Oregon Water Resources Department. (2015, December). *2015 statewide long-term water demand forecast: Oregon's integrated water resources strategy*. [https://www.oregon.gov/OWRD/wrdpublications1/OWRD\\_2015\\_Statewide\\_LongTerm\\_Water\\_Demand\\_Forecast.pdf](https://www.oregon.gov/OWRD/wrdpublications1/OWRD_2015_Statewide_LongTerm_Water_Demand_Forecast.pdf)
- 110 Oregon Water Resources Department. (2015, February). *Draft guidelines: A tool for conducting place-based integrated water resources planning in Oregon*. [https://www.oregon.gov/owrd/WRDPublications1/2015\\_February\\_Draft\\_Place\\_Based\\_Guidelines.pdf](https://www.oregon.gov/owrd/WRDPublications1/2015_February_Draft_Place_Based_Guidelines.pdf)
- 111 Oregon Water Resources Department. (2015, February). *Draft guidelines: A tool for conducting place-based integrated water resources planning in Oregon*. [https://www.oregon.gov/owrd/WRDPublications1/2015\\_February\\_Draft\\_Place\\_Based\\_Guidelines.pdf](https://www.oregon.gov/owrd/WRDPublications1/2015_February_Draft_Place_Based_Guidelines.pdf)
- 112 Oregon Water Resources Department. (n.d.). *Climate*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/owrd/programs/climate/Pages/default.aspx>
- 113 Oregon Watershed Enhancement Board. (2020, June 19). *Report to Oregon Governor Kate Brown in response to Executive Order 20-04*. <https://www.oregon.gov/gov/Documents/OWEB-report-final.pdf>
- 114 Oregon Watershed Enhancement Board. (2020, June 19). *Report to Oregon Governor Kate Brown in response to Executive Order 20-04*. <https://www.oregon.gov/gov/Documents/OWEB-report-final.pdf>
- 115 Oregon Watershed Enhancement Board. (2020, June 19). *Report to Oregon Governor Kate Brown in response to Executive Order 20-04*. <https://www.oregon.gov/gov/Documents/OWEB-report-final.pdf>
- 116 Oregon Watershed Enhancement Board. (2020, June 19). *Report to Oregon Governor Kate Brown in response to Executive Order 20-04*. <https://www.oregon.gov/gov/Documents/OWEB-report-final.pdf>
- 117 Oregon Watershed Enhancement Board. (2020, June 19). *Report to Oregon Governor Kate Brown in response to Executive Order 20-04*. <https://www.oregon.gov/gov/Documents/OWEB-report-final.pdf>
- 118 Oregon Watershed Enhancement Board. (2021, July 15). *Climate-related technical resources for OWEB applicants*. <https://www.oregon.gov/oweb/Documents/Climate-Related-Technical-Resources.pdf>

- 119 Oregon Watershed Enhancement Board. (2021, July 15). *Climate-related technical resources for OWEB applicants*. <https://www.oregon.gov/oweb/Documents/Climate-Related-Technical-Resources.pdf>
- 120 Written Communication from Oregon Public Utility Commission to Oregon Department of Energy, Nov. 1, 2021 (on file with department).
- 121 Oregon Public Utility Commission, *Summary of HB 2021—Clean Energy*, <https://www.oregon.gov/puc/Documents/HB2021-Summary.pdf>.
- 122 Written Communication from Oregon Public Utility Commission to Oregon Department of Energy, Nov. 1, 2021 (on file with department).
- 123 Oregon Public Utility Commission. (2020, May 15). *Report on Executive Order 20-04*. <https://www.oregon.gov/puc/utilities/Documents/EO20-04PUC-Report.docx.pdf>
- 124 Written Communication from Oregon Public Utility Commission to Oregon Department of Energy, Nov. 1, 2021 (on file with department).
- 125 Oregon Public Utility Commission. (2022). Docket No. AR 638: Adopt Rules for Risk-Based Wildfire Protection Plans and Planned Activities Consistent with Executive Order 20-04. (Administrative Hearings Division (AHD) Report Item No. RM1; p. 47). <https://edocs.puc.state.or.us/efdocs/HAH/ar638hah151428.pdf>
- 126 Oregon Public Utility Commission. (n.d.). *Wildfire mitigation workshop series*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/puc/Pages/EO-20-04-Wildfire-Mitigation-Workshops.aspx>
- 127 Dalton, M., & Fleishman, E. (Eds.). (2021). *Fifth Oregon climate assessment*. Oregon Climate Change Research Institute. <https://oregonstate.app.box.com/s/7mynjzhda9vunbzqib6mn1dcpd6q5jka>
- 128 Oregon Climate Change Research Institute. (n.d.). *About*. Retrieved February 23, 2022, from <https://blogs.oregonstate.edu/occri/about/>
- 129 Oregon Climate Change Research Institute. (n.d.). *Publications*. Retrieved February 23, 2022, from <https://blogs.oregonstate.edu/occri/publications/>
- 130 Oregon Climate Change Research Institute. (n.d.). *Recent peer-reviewed publications*. Retrieved February 28, 2022, from <https://blogs.oregonstate.edu/occri/recent-peer-reviewed-publications/>
- 131 Oregon Global Warming Commission. (n.d.). *Roadmap to 2035: A plan for Oregon to meet its greenhouse gas reduction targets*. Keeporegoncool.com. Retrieved February 16, 2022, from <https://www.keeporegoncool.org/tighger>
- 132 Oregon Department of Energy. *Oregon Global Warming Commission Analysis Shows Oregon’s Greenhouse Gas Reduction Goal is Within Reach*. July 25, 2022. <https://energyinfo.oregon.gov/blog/2022/7/25/oregon-global-warming-commission-analysis-shows-oregons-greenhouse-gas-reduction-goal-is-within-reach>
- 133 Macdonald, C., Buchanan, M., Duncan, A., & Hanemann, M. (2020). *Biennial report to the Oregon Legislature*. Oregon Global Warming Commission. <https://static1.squarespace.com/static/59c554e0f09ca40655ea6eb0/t/5fe137fac70e3835b6e8f58e/1608595458463/2020-OGWC-Biennial-Report-Legislature.pdf>
- 134 Macdonald, C., Buchanan, M., Duncan, A., & Hanemann, M. (2020). *Biennial report to the Oregon Legislature*. Oregon Global Warming Commission. <https://static1.squarespace.com/static/59c554e0f09ca40655ea6eb0/t/5fe137fac70e3835b6e8f58e/1608595458463/2020-OGWC-Biennial-Report-Legislature.pdf>
- 135 Macdonald, C., Buchanan, M., Hatch, A., & Strawn, A. (2021). *Natural & working lands proposal*. Oregon Global Warming Commission. <https://static1.squarespace.com/static/59c554e0f09ca40655ea6eb0/t/6148a9d36431174181e05c7c/1632152029009/2021+OGWC+Natural+and+Working+Lands+Proposal.pdf>
- 136 Oregon Global Warming Commission. (n.d.). [Homepage with links to resources]. Keeporegoncool.com. Retrieved February 16, 2022, from <https://www.keeporegoncool.org/>

- 
- <sup>137</sup> Oregon Sustainability Board. (n.d.). *Oregon Sustainability Board*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/das/Facilities/Pages/Sustainability.aspx>
- <sup>138</sup> Oregon Sustainability Board. (n.d.). *Oregon Sustainability Board*. Oregon.gov. Retrieved February 23, 2022, from <https://www.oregon.gov/das/Facilities/Pages/Sustainability.aspx>
- <sup>139</sup> Oregon Department of Energy. (n.d.). Heat Pump Incentive Program. <https://www.oregon.gov/energy/Incentives/Pages/heat-pumps.aspx>
- <sup>140</sup> The Oregon Conservation Strategy. (n.d.). Barriers to Animal Movement. <https://www.oregonconservationstrategy.org/key-conservation-issue/barriers-to-animal-movement/#scrollNav-6>
- <sup>141</sup> Oregon Public Utility Commission. (2022). Docket No. AR 638: Adopt Rules for Risk-Based Wildfire Protection Plans and Planned Activities Consistent with Executive Order 20-04. (Administrative Hearings Division (AHD) Report Item No. RM1; p. 47). <https://edocs.puc.state.or.us/efdocs/HAH/ar638hah151428.pdf>
- <sup>142</sup> 81st Oregon Legislative Assembly (2021). *House Bill 2021*. <https://olis.oregonlegislature.gov/liz/2021R1/Downloads/MeasureDocument/HB2021/Enrolled>