

## ODOT Climate Change-related Program Activities

(M = Mitigation, A = Adaptation)

	ODOT Program Name	Activity Headline	Lead Person/Point of Contact	ODOT Lead Section / Unit	General Descriptions of Work (related to Climate Change)	Near-term Areas of Focus (2018-2020)	Comments
M	Oregon Sustainable Transportation Initiative (OSTI)	Overall program coordination	Amanda Pietz/TBD 503.986.4227	TBD	Responsible for implementation of OSTI program, which includes many pieces; planning, project delivery, Office of Innovation, etc. Mainly a tracking role.	Continued coordination	<a href="#">OSTI</a>
M	Oregon Sustainable Transportation Initiative (OSTI)	Scenario Planning and Strategic Assessments	Brian Hurley 503.986.4398	Planning	A planning policy and process to evaluate what a metropolitan area may look like in the future given the area's adopted plans and trends of today	Continued analysis	Work is completed with ODOT staff, consultants, MPOS, and/or local jurisdictions - <a href="#">OSTI</a>
M	Oregon Sustainable Transportation Initiative (OSTI)	Modeling and Analysis tools for Scenario Planning and Strategic Assessment (Region and State Plans)	Tara Weidner 503.986.4226	Transportation Planning and Analysis Unit (TPAU)	Analysis procedures to quantify the potential outcomes of Region or Statewide adopted plans	First-time monitoring report of the State Transportation Strategy implementation plan (required once every 5 years); monitoring in the near term; identifying a mid-term plan	Inputs developed in partnership with Department of Energy, Department of Land Conservation and Development, Department of Environmental Quality, Department of Aviation, Public Utility Commission, RPTD, and ODOT economists
M	Oregon Sustainable Transportation Initiative (OSTI)	Modeling and Analysis tools for Scenario Planning and Strategic Assessment (Policy)	Tara Weidner 503.986.4226	Transportation Planning and Analysis Unit (TPAU)	Analysis procedures to quantify the potential consequences of various options in policy and investment priorities such as vehicles and fuels, pricing, transit, and ITS	Continued analysis	Inputs developed in partnership with Department of Energy, Department of Land Conservation and Development, Department of Environmental Quality, Department of Aviation, Public Utility Commission, RPTD, and ODOT economists
M	Oregon Sustainable Transportation Initiative (OSTI)	Statewide Transportation Strategy for Greenhouse Gas Reduction	Brian Hurley 503.986.4398	Planning	Assess whether ODOT planning documents meet the State's requirements for environmental stewardship	Preparing legislative report on monitoring	<a href="#">2012 STS</a> - Multi-agency document developed in partnership with Oregon Department of Energy, Department of Land Conservation and Development, and Department of Environmental Quality, Department of Aviation
M	Oregon Sustainable Transportation Initiative (OSTI)	Statewide Transportation Strategy Implementation and Monitoring	Amanda Pietz 503.986.4227	Active Transportation	Works with the Office of Innovation on electric vehicles, ITS, and other parts of the agency on implementation activities. Leads compilation of monitoring report and responsible for delivering report.	First-time monitoring report of the State Transportation Strategy implementation plan (required once every 5 years); monitoring in the near term; identifying a mid-term plan	<a href="#">OSTI</a>
M	Oregon Sustainable Transportation Initiative (OSTI)	Greenhouse Gas Reduction Toolkit (website)	Stephanie Millar 503.986.4224	Planning	A web-based resource with strategy reports and case studies to help local jurisdictions identify and explore the kinds of actions and programs they can undertake to reduce vehicle emissions	Update with new case studies and best practices, if applicable	<a href="#">OSTI GHG Toolkit</a>
M	Congestion Mitigation and Air Quality Improvement Program (CMAQ)	Overall program including funding, design and administration	Cole Grisham 503.986.3531	Active Transportation	Manage CMAQ funding program, staff MPO advisory committee, and administer funding allocation to eligible projects.	Implementing new funding distribution plan and guidelines for CMAQ program strategic investments.	<a href="#">CMAQ</a>
M	Congestion Mitigation and Air Quality Improvement Program (CMAQ)	Air quality technical analysis	Natalie Liljenwall 503.986.3456	Geo-Environmental	Help rural areas do emission calculations for CMAQ projects	Continued analysis	<a href="#">CMAQ</a>
A	Sustainability Program (Adaptation)	Overall program coordination	Geoff Crook 503.986.3425	Active Transportation	Implement ODOT's Adaptation Strategy; Manage, share and integrate climate adaptation research, data, pilot studies, planning assessments, and strategic initiatives	Update the Adaptation Work Program considering HB2017 and new agency priorities	Cross agency Adaptation Work Group helps guide program priorities – <a href="#">Climate Change</a>

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A	<b>Sustainability Program (Adaptation)</b>	Coastal Resilience Planning	Geoff Crook 503.986.3425	Active Transportation	Conduct Vulnerability assessments, FHWA pilot studies for coastal highways, case studies for impacted communities, lead initiative for sea level rise mapping and guidance	TBD	<a href="#">Climate Change</a>
A	<b>Unstable Slopes Program</b>	Landslide Research	Curran Mohney 503.986.3490	Tech Services/Geo-Hydro	Long-term research for coastal landslide and bluff erosion monitoring; development of automated landslide hot-spot mapping (considering future impacts of climate change)	Continued areas of research through 2023	SPR 807 and 808; OSU is PI, coordinated through ODOT Research – <a href="#">Climate Change</a>
M	<b>Sustainability Program</b>	Overall program coordination per ODOT Sustainability Plan	Geoff Crook 503.986.3425	Active Transportation	Develop, track and report on sustainability goals, strategies, and performance measures for GHG reductions	Present annual progress reports to the ODOT Sustainability Council, internal Leadership Teams, and Oregon Sustainability Board	Guidance from ODOT Sustainability Council. Work relates to Legislative or Executive requirements, Sustainability Plan goals and measures; GHG reduction elements: Energy Management (Facilities Services) and Alternative Vehicles and Fuels (Fleet Services) - <a href="#">Sustainability</a>
M	<b>Energy Management</b>	Implement Strategic Energy Management program; promote energy efficiency across ODOT's portfolio	Kristen LaLonde 503.731.3040	Facilities Services	Coordinate energy management; implement energy efficiency strategies, and track and report building energy use to ODOE (includes use of Portfolio Manager and GHG emissions tracking capability)	Support expansion of Strategic Energy Management to a larger number of ODOT facilities; respond to Gov. Climate Change EO 17-20 regarding energy efficiency priorities, standards for ODOT buildings	Reporting per ODOT Sustainability Plan: Measures and data reported in partnership with the Sustainability Program (Geoff Crook) - <a href="#">Sustainability</a>
M	<b>Sustainability in Fleet Services</b>	Alternative fuels and vehicle usage in ODOT fleet	Lori Webb 503.986.2835	Fleet Services	Manage program for the procurement and use of alternative vehicles and fuels; provide data on fuel usage to DAS per GHG emissions reporting	Continued implementation and analysis	Reporting per ODOT Sustainability Plan: Measures and data reported in partnership with the Sustainability Program (Geoff Crook) - <a href="#">Sustainability</a>
M	<b>Oregon Solar Highway Program</b>	Public/Private partnership to create renewable solar energy in the ODOT right of way	Geoff Crook 503.986.3425	Active Transportation	Maintain public/private partnership with PG&E; collect Renewal Energy Certificates for solar arrays; provide technical assistance	Provide technical guidance and support	Link to guidance document on website - <a href="#">Solar Highway</a>
M	<b>Public Private Partnerships</b>	Highway Lighting/ LED Conversion	Art James 503.986.3858	Office of Innovation	Office of Innovation is working with Region 1 and the Dept. of Energy to implement a performance contract for energy efficient highway lighting; GHG emission reductions will be reported	Launch the highway lighting performance contract RFP, select a consultant and manage contract	OTC approval for performance contracting RFP (Jan. 2018) – <a href="#">Office of Innovation</a>
M	<b>West Coast Electric Highways</b>	Electric Vehicle charging station use analysis	Andrew Dick 503.986.3839	Office of Innovation	Analyze charging station usage data to identify gaps in infrastructure. Partner with providers and utilities to ensure needs are met.	Continued analysis	Of the 110 charging stations in the state, 44 were installed by ODOT. Station maintenance through contractor AeroVironment – <a href="#">Office of Innovation</a>
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Represent Oregon in this DEQ-administered, multi-state program	Andrew Dick 503.986.3839	Office of Innovation	Via bi-weekly calls with participating states and monthly calls with automakers, identify what states can do to support Electric Vehicle policy	Continuing participation	<a href="#">Office of Innovation</a>
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Zero-Emission Vehicle Agency Working Group (EO-17-21, Item 8)	Andrew Dick 503.986.3839	Office of Innovation	Represent ODOT in multi-agency working group formed under EO 17-21. Identify and remove any barriers while tracking progress.	Continuing participation	First meeting of working group December 15, 2017 – <a href="#">Office of Innovation</a>
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Volkswagen Mitigation Fund (EO 17-21 Item 5A)	Andrew Dick 503.986.3839	Office of Innovation	Support DEQ in developing a plan that uses up to 15% of VW mitigation funds for EV charging. Develop and maintain Electric Vehicle charging stations.	Continuing participation	<a href="#">Office of Innovation</a>
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Volkswagen Zero Emission Vehicle Fund (EO 17-21, Item	Andrew Dick 503.986.3839	Office of Innovation	In cooperation with other western states every 2.5 years, develop and win proposals	Continuing participation	<a href="#">Office of Innovation</a>

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		5B)			that help achieve OR electric vehicle goal. Facilitate application process for fund deployment.		
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Electric Transit Buses (EO 17-21, Item 6B)	Andrew Dick 503.986.3839	Office of Innovation	Develop tools and information around electrification of public transit vehicles. Provide economic and cost analysis to help transit providers assess opportunities.	Continuing participation	Program coordination through Andrew Dick. Analysis prepared by Andrew O'Keefe – <a href="#">Office of Innovation</a>
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Electric School Buses (EO 17-21, Item 6A)	Andrew Dick 503.986.3839	Office of Innovation	Develop tools and information around electrification of school buses. Leverage findings of Electric Transit Buses program to create economic and cost analysis to help schools assess opportunities.	Not yet initiated. Potential: mid-2018.	<a href="#">Office of Innovation</a>
M	<b>Zero Emissions Vehicles (ZEV)/Electric Vehicles Program</b>	Electric State Fleet Vehicles (EO 17-21, Item 3, Oregon State Agencies Leading By Example)	Andrew Dick 503.986.3839	Office of Innovation	Prepare to respond to Department of Administrative Services and Oregon Department of Energy, who are tasked with this Item in EO 17-21.	Continuing participation	<a href="#">Office of Innovation</a>
M	<b>Air Quality Program</b>	Compliance with rules and regulations in ODOT Air Quality Program	Natalie Liljenwall 503.986.3456	Geo-Environmental	Establish conformity of ODOT plan, program and project actions with the Air Quality State Implementation Plan. Work with MPOs, rural areas, local agencies and regulatory agencies.	Update Air Quality Manual	<a href="#">Office of Innovation</a>
M	<b>National Environmental Policy Act (NEPA)</b>	ODOT Energy Program (energy analysis for proposed transportation projects)	Natalie Liljenwall 503.986.3456	Geo-Environmental	Establish/maintain methodology on how to perform energy analysis and maintain manual. Review consultant reports for compliance.	Update Energy Manual	<a href="#">Office of Innovation</a>
M	<b>National Environmental Policy Act (NEPA)</b>	GHG Emissions and Climate Change analysis in an EA or EIS	Michael Holthoff 503.986.3428 Natalie Liljenwall	Geo-Environmental	Michael: Establish/maintain methodology on when/how to perform a GHG Emissions and Climate Change analysis within an EIS or EA. Natalie: Provide technical expert support	Current EIS annotated template requires revision on to GHG/Climate Change section	WashDOT methodology for EA was used for quantitative analysis on Rose Quarter project – <a href="#">NEPA</a>
M	<b>Transportation Options Program</b>	Encourage travel options that reduce single-occupancy vehicle (SOV) use and vehicle miles travelled (VMT).	Stephanie Millar 503.986.4224	Active Transportation	Connect people to non-SOV transportation choices, allowing them to bike, walk, take transit, drive, share rides, and telecommute. Manage ride matching system. Direct annual Drive Less Challenge event.	Implementing performance monitoring program, replacing ride matching tool, continuing outreach and education to the public	<a href="#">Transportation Options Program</a>

## Committees

	Agency or Group	Internal or External	Purpose	Link to Climate Change	ODOT Point Person	Frequency/Type of Contact	Comments
A	ODOT Adaptation Work Group	Internal	Provide guidance and support to ODOT's climate adaptation strategies, research and planning initiatives	Adaptation	Geoff Crook	As needed	
M/A	ODOT Sustainability Council	Internal	Provide support and guidance for ODOT's Sustainability related efforts, including the Sustainability Plan, performance measurement and new strategic initiatives	ODOT's Sustainability Plan and related actions influence GHG reductions through energy management, fleet services, procurement and other areas	Geoff Crook	Quarterly meetings	
M/A	Interagency Climate Change Work Group	External	Coordination among State agencies for climate change mitigation and adaptation planning/policy/implementation	Meets on the topic of climate change, pulling together all state agencies	Geoff Crook	Quarterly meetings, informal networking and sharing	Organized by Dept. of Energy, OHA
M	Interagency Sustainability Coordinator's Network (ISCN)	External	Coordination among State agencies for sustainability planning and policy; organized by DAS State Sustainability Officer	Sustainability Plans and actions influence GHG reduction through energy management, fleet services, procurement and other areas	Geoff Crook	Bi-monthly meetings	
M/A	Pacific Coast Collaborative	External	Coordinate climate policy between Oregon, Washington, California, and British Columbia	High-level climate policy forum	Andrew Dick	Monthly calls	
M/A	Multi-State Zero-Emission Vehicles Initiative	External	Support the 8-state initiative to successfully implement the Zero Emission Vehicles program	Vehicle electrification is a critical strategy to meeting climate goals	Andrew Dick	Bi-weekly calls with states, monthly calls with automakers	
M	WashDOT	External	Coordinate with Air Quality and Greenhouse Gas expert on air quality, conformity, CMAQ emission rates, etc.	Air quality measures	Natalie Liljenwall	As needed	Informal contact maintain to share expertise
M	Virginia Department of Transportation	External	Coordinate with Air Quality expert on air quality, conformity, CMAQ emission rates, etc.	Air quality measures	Natalie Liljenwall	As needed	Informal contact maintain to share expertise
M	Transportation Conformity Oregon Interagency Group	External	Coordinate on a regional and project level transportation conformity with the State Implementation Plan for air quality	Air quality	Natalie Liljenwall	As needed	
M	EPA Region 10 Air Quality Meetings	External	Discuss Air Quality related concerns, sometimes includes climate change.	Air quality measures	Natalie Liljenwall	Quarterly meetings	Participants include AK, ID, WA, CA, and OR; MPOs and regulatory agencies
M	AASHTO Air Quality Climate Change and Energy Subcommittee	External	Coordinate on regulations changes, new models, rules, etc. Review research proposals on air quality. Come from within the group.	Air quality measures	Natalie Liljenwall	At least every quarter, not on a regular schedule	Participates in some research panels related to air quality

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M	Oregon Modeling Steering Committee Subgroup: Oregon Modeling Users Group	External	Multi-agency modeling coordination; pooling of resources on efforts that benefit multiple agencies	Forum discussions and modeling coordination include GHG-related topics such as automated vehicles and GreenSTEP; forum to link planning-level related efforts and modeling assumptions	Brian Dunn	Full group meets every 6 months; subcommittees meet quarterly	<a href="#">Oregon Modeling Steering Committee</a>  <a href="#">Oregon Modeling Users Group:</a> Group is driven by ODOT and Portland Metro, includes other MPO modelers and agencies
M/A	Oregon Global Warming Commission	External	The Oregon Global Warming Commission tracks trends in greenhouse gas emissions, recommends ways to coordinate state and local efforts to reduce emissions, and works to prepare communities for the effects of climate change.	The Commission was created by the 2007 Oregon Legislature to address GHG/climate change.	Brian Dunn		
M/A	Oregon Sustainability Board	External	Governor appointed board responsible for state agency Sustainability Plan oversight and progress reports, among other duties	While the Global Warming Commission is primary connection to Governor's office/ Executive direction, OSB has interest in monitoring climate related activities per agency Sustainability Plans	Geoff Crook	Quarterly; ODOT presents updates to OSB every two years.	
A	FHWA Climate/Extreme Weather Resilience Pilot's Program	External	FHWA grant funding program and technical support for adaptation resilience pilot projects	Adaptation vulnerability assessments, engineering assessments, technical and organizational guidance for integrating adaptation into business practices	Geoff Crook	Technical support as needed; webinars and peer exchanges available on an on-going basis.	
M/A	Georgetown Climate Center State Policy Forum	External	The nonpartisan Georgetown Climate Center seeks to advance effective climate and energy policies in the U.S. and serves as a resource to state and local communities that are working to cut carbon pollution and prepare for climate change.	bi-monthly conference calls on a variety of adaptation/resilience topics; group networking	Geoff Crook	Every two months	
M/A	State Smart Transportation Initiative (SSTI) – DOT Sustainability Network	External	SSTI, in partnership with FHWA, has formed a network of senior state DOT staff with key responsibilities for sustainability. Meetings explore topics related to implementing sustainable practices as well as furthering a sustainability directors network	Annual meetings; group networking	Geoff Crook	Annual meetings; regular networking	

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M/A	AASHTO Standing Committee on Environment and Sustainability	External	AASHTO committee for policy, research and program development for environmental and sustainable transportation	Climate change related issues are covered by this committee	Susan Haupt	Annual meeting	
M/A	AASHTO Standing Committee on Environment and Sustainability – Environmental Process Subcommittee	External	The AASHTO CoES Environmental Process subcommittee serves state DOTs as a primary national forum for NEPA protocols and methods of analysis, including GHG emissions and climate change.	FHWA and FTA NEPA documents: Environmental Impact Statements (EISs) and Environmental Assessments (EAs)	Michael Holthoff	Monthly calls	Currently there are no standard practices connecting NEPA transportation project development to the mitigation of GHG emissions caused by project construction and the follow-on operations and maintenance activities.
M/A	Governor's Natural Resource Cabinet	External	Executive advisory cabinet, responsible for implemented Executive Orders, Legislative mandates.	Primary focus is on natural resource management and relevant adaptation strategies	Susan Haupt		
M/A	Governor's Climate Cabinet	External	Agency input and direction on Governor's Clean Jobs bill under development	Focus is development of a cap and trade program for GHG emissions.	Amy Joyce	Monthly	
M	CMAQ MPO Technical Work Group	External	Provide user feedback on ODOT's CMAQ Program	Air quality mitigation through strategic transportation investments	Cole Grisham	As needed	Last met January 30th and currently has no future meetings scheduled. ODOT is identifying a separate meeting with Non-MPO rural recipients in Spring/Summer of 2018

## Measures and Measurement Tools

Measure/ Measurement Tool	Purpose	Lead Person/Point of Contact	User/Intended Users	ODOT Data Collector (if any)	Description	Website and/or Other Links	Comments/Additional Information
<b>GreenSTEP Model</b>	Conduct strategic-level analysis of the effect of various policies on greenhouse gas (State level)	Brian Dunn	DOTs, MPOs, Global Warming Commission	Tara Weidner	Explore at an aggregate level the long-term impacts of various policies (e.g., pricing, land use, transit) For example: what is the impact of an increase in the range of electric vehicles on greenhouse gasses. Used to estimate impacts in modal plans. See website for information about data collected.	<a href="#">GreenSTEP tool</a>	The original customer for this tool was the Global Warming Commission. Legislation on STS led to expanded use. STS monitoring at the State level occurs in five-year intervals.
<b>Regional Strategic Planning Model (RSPM)</b>	Similar to the GreenSTEP Model, designed for use by urban geography	Brian Dunn	DOTs, MPOs, Global Warming Commission	Tara Weidner	Explore at an aggregate level the impact of various policies (e.g., pricing, land use, transit) For example: what is the impact of an increase in the range of electric vehicles on greenhouse gasses.	<a href="#">Strategic Assessment and Scenario Planning</a>	STS monitoring is required for Portland Metro, and voluntary in other urban areas. Other MPOs currently coordinating with ODOT: Central Lane, Corvallis, Rogue Valley.
<b>Facilities Energy Use - EPA Portfolio Manager</b>	Energy Management Program measurement	Kristen LaLonde	ODOT, Oregon Department of Energy	Kristen LaLonde	Metric is building energy use intensity (EUI) or kBtu/SF on an annual basis. Energy reduction goals are building specific with ASHRAE 100 as a broad target.	<a href="#">Energy Star Portfolio Manager</a>	
<b>ODOT Sustainability Plan - Performance Measures</b>	Track and report ODOT's GHG emission reductions relating to energy and fleet fuel/ vehicle efficiencies.	Geoff Crook	Sustainability Council, ODOT Fleet Services, ODOT Facilities, Gov. appointed Oregon Sustainability Board	Geoff Crook, Kristen LaLonde, others	Demonstrate progress toward ODOT's internal GHG emission reductions goals relating to energy usage and fleet services.	<a href="#">Sustainability Plan Volume II</a>	
<b>West Coast Electric Highway Usage Statistics</b>	Track and monitor use of the West Coast Electric Highway charging network	Andrew Dick	State of the System report, Utilities, Charging Providers	Andrew Dick	Analyze use of West Coast Electric Highway to identify needs and support partners deploying EV infrastructure	<a href="#">West Coast Electric Highway</a>	
<b>Electric Vehicle Deployment Statistics</b>	Track EVs registered in Oregon	Andrew Dick and Dan Porter	State of the System report, Office of Innovation	Andrew Dick and Dan Porter	Track electric vehicle adoption in Oregon in support of Zero Emission Vehicles program, to identify charging infrastructure needs, etc.		
<b>Mobile Emission Analysis using EPA Motor Vehicle Emission Simulator (MOVES) model</b>	Calculate air emissions including greenhouse gases	Natalie Liljenwall	DOTs, MPOS, EPA, DEQ, local agencies	Natalie Liljenwall (at a project level)	Used for either NEPA or conformity air analysis during the environmental stage of project development	<a href="#">MOVES and Other Mobile Source Emissions Models</a>	
<b>FHWA Infrastructure Carbon Estimator (ICE) Tool</b>	Calculate greenhouse gas emission from construction and maintenance	Natalie Liljenwall	DOTs	Natalie Liljenwall (at a project level)	Used for either NEPA or conformity air analysis during the environmental stage of project development	<a href="#">Infrastructure Carbon Estimator</a>	

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<b>CMIP Climate Data Processing Tool</b>	FHWA-sponsored tool, provides downscaled climate projections for localized (12 square kilometer) areas/ grid cells.	Geoff Crook	DOTs	Geoff Crook, at a project level	Can be used to select climate change scenarios and generate temperature and precipitation projections (and extreme values) that can inform transportation planning and environmental analysis	<a href="#">CMIP Climate Data Processing Tool</a>	This tool was used on ODOT's vulnerability assessment pilot project (2014).
<b>CMAQ Federal Performance Measures</b>	Measure expected impact of CMAQ investments and monitor status of congestion	Cole Grisham	DOTs and MPOs	Natalie Liljenwall (at a project level for emissions); Metro for congestion	Project impacts are measures through the On-Road Mobile Source Emissions. Congestion is measures through Peak-Hour Excessive Delay and Non-SOV travel share.	FHWA provides guidance on all CMAQ measures, including quick reference fact sheets here: <a href="#">GHG Final Rule Signed</a>	The emissions measure applies to all CMAQ recipients in Oregon and is coordinated by ODOT. Congestion measures currently only apply to Metro and will to apply after October 1st, 2018.