

## DRAFT Environmental Targets and Actions: FY 2016-17

The Port of Portland uses an Environmental Management System (EMS) as a framework to continuously and systematically improve our environmental performance to demonstrate our responsible environmental stewardship on a daily basis. We set annual and multi-year targets to guide our efforts in meeting objectives of five program areas. Each year, we establish either annual targets, *or* actions in support of multi-year targets. These are developed based on recommendations from environmental program managers, operational staff and other key stakeholders. We use our objectives and targets to set goals, track progress and measure our success. We are pleased to announce 20 new and ongoing targets and actions for the 2016-2017 fiscal year. Unless otherwise specified, targets and actions are due to be completed by June 30, 2017.

### Air Quality

#### Objective: Minimize impacts to air quality

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The Air Quality Program facilitates implementation of the Port's Air Quality Policy, which has a primary goal of promoting clean air for all who live in airsheds affected by Port activities. To do this, the Port utilizes emissions inventories and aspect/impact analyses of its planned and actual activities that have, or can have, a significant impact on the airshed. The program has evolved beyond Port-controlled activities to develop partnerships with private, government and community groups to enhance outcomes and reduce impacts collaboratively.

#### FY 2016-17 Targets:

- **Reduce diesel particulate matter by 75% from Port-controlled operations from 2000 baseline levels by 2020. This is a multi-year target.**

The Port has reduced diesel particulate matter emissions by 73% from Port-owned and controlled equipment. To achieve the full 75% reduction, three future projects are proposed: 1) Replace Tug *Williams* in 2-3 years, capital: \$4,000,000; 2) Replace dredge handling dozer in 2-3 years, capital: \$850,000; and 3) Repower Tug *Clackamas* in 3-4 years, capital: \$1 – 2,000,000. This year's action will identify and report on external funding opportunities and prepare an application for funding, as appropriate, to support proposed repower and replacements.

- **Reduce Port direct and indirect Greenhouse Gas (GHG) emissions 15% below 1990 levels by 2020. This is a multi-year target.**

We continue to meet this target through the purchase of certified Renewable Energy Credits equal to 100% of Port-wide electric energy usage and by completing planned Portfolio 1 energy efficiency improvements.

- **Participate in the Airports Council International (ACI) Airport Carbon Accreditation Program to achieve Level III (Optimization) by 2018 and Level III + (Neutralization) by 2035 for Portland International Airport (PDX), Hillsboro Airport (HIO), and Troutdale Airport (TTD). This is a multi-year target.**

This year's action will be to achieve Airports Council International (ACI) Airport Carbon Accreditation Level III (reduction) for PDX, HIO, and TTD, including registration, preparation of inventory, and independent third-party verification. This will include a carbon management assessment in preparation for carbon neutrality.

- **Advocate for unleaded fuel penetration for the Avgas fleet at HIO by working with General Aviation Operations to complete an unleaded fuel study, including working with HIO fueling**

**companies to initiate an unleaded fuel program facilitated through existing Airport Minimum Standards. This is the second year of a multi-year target.**

Assess unleaded fuel use at HIO, report findings and communicate the results to the community.

- **Reduce emissions from marine and aviation-related sources not under the Port's direct control, including Port customers, tenants and other stakeholders. This a multi-year target.**

We will explore a partnership with the City of Portland and Multnomah County to develop clean-diesel requirements for equipment used on publically-funded projects. In addition, we will identify opportunities to work with and/or support the replacement or retrofit of older switcher locomotives operating at Port marine terminals.

- **Reduce aircraft-related GHG emissions at PDX by 25% from 2010 levels by 2035. This is a multi-year target.**

We will engage with interested airlines and key stakeholders in a collaborative process to establish biofuels infrastructure at PDX through the Portland Fueling Facility Consortium (PFFC). Internally, the project will produce an engineering-level description of the PDX aircraft fuel delivery infrastructure and processes for use by the Port and airlines at PDX, including a conceptual description of alternatives for delivering airline-purchased biofuels. In addition, we will prepare a Voluntary Airport Low Emissions (VALE) Program grant application to support the installation of preconditioned air at 27 jet bridges to eliminate aircraft APU emissions.

## **Energy Management**

**Objective: Reduce energy consumption and reduce carbon emissions**

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The Port developed the Energy and Carbon Management Master Plan to reduce energy consumption and carbon emissions. The plan aligns closely with the Air Quality program and presents a six point strategy for reaching the Port's GHG reduction goal. The Port's Master Plan sets the foundation for establishing targets and a portfolio of projects identified and scheduled for implementation.

### **FY 2016-17 Targets:**

- **Reduce Port-wide energy consumption (kWh) by 20% from the 2011 baseline by 2020. This is a multi-year target.**

This year we will implement the design and construction phase for Portfolio 1 energy savings and develop business cases to implement energy efficiency opportunities identified in Portfolio 2 energy consumption. In addition, if applicable, we will add energy efficiency measures to the scope of work of existing or open Port projects.

- **Purchase 100% of all Port electric energy from renewable sources by selecting cost-effective options in the energy market for Renewable Energy Credits, Vintage Year 2016. This is an ongoing target.**
- **Develop an energy baseline metering, tracking and analysis system for PDX Terminal Complex and other large Port buildings or systems utility services. This is the fourth year of a multi-year target.**

This program will continue for another six years to allow for upgrades over time as new PDX concessionaires sign leases. For newly-leased areas, we will install sub-meters and create real-time

database tracking. In addition, we will expand the system beyond PDX concession tenants to explore installing standardized meters at other locations, such as marine and general aviation facilities.

- **Develop and deliver a Strategic Energy Management Program for Port's commercial energy improvements by participation in the Energy Trust of Oregon Strategic Energy Management (SEM) Program. This is the third year of a multi-year target.**

This target will support broader awareness related to how Port employees and tenants can personally contribute to energy efficiency through their daily actions. We will work toward this target by focusing on communications, education, facility monitoring, and by participating in the second year of the Oregon Energy Trust's SEM Program.

## Natural Resources

### Objective: Minimize impacts and seek opportunities to enhance natural resources

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The Natural Resources Program seeks to ensure the development and maintenance of a consistent, ecosystem-based framework for all decisions involving natural resources at the Port. The Port takes a proactive approach to managing natural resources and is responsible for the long-term management of its mitigation commitments. Engaging with the community to identify opportunities has been an important aspect in target selection to support regional conservation goals and initiatives.

#### FY 2016-17 Targets:

- **Implement projects in support of the Airport Futures Intergovernmental Agreement for environmental improvements around PDX. This is year six of a multi-year target.**

We will implement Phase II of the Government Island Grassland Mitigation Project (seeding and monitoring), complete one Columbia Slough Enhancement Project, and complete one Canopy Enhancement Project for this on-going commitment.
- **Extend partnership with Friends of Trees by sponsoring and participating in tree plantings in neighborhoods adjacent to or near Port facilities to help offset impacts from Port operations. Events will include an employee service opportunity.**
- **Develop a Pacific Lamprey monitoring plan in conjunction with the U.S. Fish and Wildlife and the U.S. Army Corps of Engineers for locations near Port Marine Terminals by June 30, 2017. This is year two of a two-year target that meets the Port's obligation under the 10-year terminal-wide berth maintenance permit.**
- **Develop a Port-wide Strategic Natural Resources Mitigation Plan that will identify mitigation needs and potential mitigation options. This is year one of a two year target.**

## Water Resources

### Objective: Minimize impacts to water resources

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The Port of Portland's Stormwater Management Program is designed to prevent, reduce, and eliminate the discharge of polluted stormwater to the Columbia Slough and Willamette and Columbia rivers. In addition, the Port continues to set targets in support of the Water Conservation Strategy developed in 2014 that defines strategies to eliminate waste, improve efficiency and use alternative water sources across the Port. It strives to further integrate water conservation into the Port's daily operations, business planning, maintenance, and capital projects.

## **FY 2016-17 Targets:**

- **Improve stormwater quality by evaluating the potential contribution of zinc from galvanized metals at Port facilities and implement recommendations for potential source control measures by June 2018. This is year one of a two year target.**
- **Improve stormwater quality by designing and implementing a social marketing campaign for Port tenants working in outdoor locations to encourage good housekeeping and spill response and cleanup.**
- **Reduce water consumption at PDX by completing a pilot education and outreach campaign aimed at optimizing water use reduction through proper use of rest room water efficiency features at PDX.**

## **Waste Minimization**

### **Objective: Reduce waste generation and hazardous materials use**

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Five Years to Zero Waste is the Port of Portland's ambitious plan developed in 2014 to create a guidance framework for the actions necessary to reach "zero-waste" status, which the EPA defines as landfill waste diversion of 90% or greater. This plan has been developed through an ongoing partnership with Portland State University's Community Environmental Services, as part of the Port's commitment to innovative, industry-leading waste minimization efforts within the broader framework of the Port's EMS. This plan sets out a framework to achieve Zero Waste status by implementing broad strategies in key areas, with specific actions, priorities, and targets. The Port has made great strides toward Zero Waste at Port-owned properties.

## **FY 2016-17 Targets:**

- **Achieve 90% or greater landfill diversion by 2018. This is the fourth year of a multi-year target.**  

Conduct a PDX Food Court durable dishware pilot project and Port employee durable take-out container pilot project that will assess the feasibility of using durable dishware in PDX food courts.
- **Reduce food waste from PDX terminal restaurants by implementing one or more Food Optimization Study recommendations in coordination with restaurants in the PDX Terminal. This is year two of a multi-year target.**
- **Minimize waste generation by providing waste minimization outreach and technical assistance to non-terminal tenants at PDX.**  

Develop tenant outreach materials, conduct outreach to non-terminal tenants, identify tenants interested in partnering with the waste minimization team, perform tenant-specific waste assessments, and report the findings and recommendations.