

# 2015-2016 Environmental Objectives and Targets



One of the ways the Port of Portland shows our commitment to responsible environmental stewardship on a daily basis is by using an Environmental Management System as a framework to continuously and systematically improve our environmental performance. Five program areas and associated objectives are supported by setting annual and multi-year targets to guide our efforts. 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, staff working throughout our operating areas and other key stakeholders. We use our objectives and targets to set goals, track progress and measure our success. We are pleased to announce 15 new and ongoing targets and actions for 2015-2016. Unless otherwise specified, targets and actions are due to be completed by June 30, 2016.



## Air Quality

**Objective: Minimize impacts to air quality**

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 the airsheds affected by Port activities. 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, to establish targets and priorities in developing emission strategies to achieve Port goals.

### FY 2015-16 Targets:

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

This year's action toward meeting this target will support equipment replacement planned within the next five years. EPA verified engine upgrade technology specifications and designs for workboat vessels (such as dozers and tugs) will be researched and identified. Data will be used to draft reduced-emissions engine specifications to aid in equipment identification and procurement.

- **Reduce Port direct and indirect GHG Emissions 15% below 1990 levels by 2020. This is a multi-year target.**

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

- **Participate in the Airports Council International (ACI) Airport Carbon Accreditation Program to achieve Level II (Reduction) by 2016; Level III (Optimization) by 2018; Level III+(Neutralization) by 2035 for Portland International Airport (PDX), Hillsboro Airport (HIO), and Troutdale Airport (TTD). This the first year of a multi-year target.**

This year's action will be to achieve Airports Council International (ACI) Airport Carbon Accreditation Level II (Reduction) for PDX, HIO, and TTD, including registration, preparation of inventory, and independent third-party verification.

- **Advocate for unleaded fuel penetration for the Avgas fleet at Hillsboro Airport (HIO) by working with General Aviation Operations to complete an unleaded fuel study and by working with fueling companies at HIO to initiate an unleaded fuel program that can be facilitated through the existing standards.**
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## Energy Management

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

The Energy and Carbon Management Master Plan was developed to reduce energy consumption and carbon emissions. The plan is closely aligned with the Air Quality Management Program and presents a six point strategy for reaching the Port's greenhouse gas reduction goal. It is the foundation for which targets are set and basis for a portfolio of projects that have been identified and scheduled for implementation.

### FY 2015-16 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 work toward this target by implementing the Terminal Efficiency Improvement Program at PDX and LED lighting upgrades around the Port for a projected annual energy savings of 1,380,000 kWh.

- **Purchase 100 percent of all Port electric energy from renewable sources by selecting cost-effective options in the energy market for Renewable Energy Credits (RECs), Vintage Year 2015.**
- **Develop an energy baseline metering, tracking and analysis system for Portland International Airport (PDX) Terminal Complex and other large Port buildings or systems utility services. This is the third year of a multi-year target.**

This year we will install sub-meters and create a real-time energy consumption database. This will allow the Port to better track and manage its electricity and gas consumption by facility and major distributed loads.

- **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 second year of a two-year program.**

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.

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## Natural Resources

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

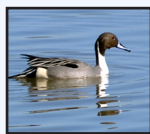
The Natural Resources Program seeks to ensure the development and maintenance of a consistent, ecosystem-based framework for all decisions involving natural resources at the Port. The Port takes a proactive approach to managing natural resources and is responsible for the long-term management of its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

### FY 2015-16 Targets:

- **Implement projects in support of the Airport Futures Intergovernmental Agreement for environmental improvements around Portland International Airport. This is year five 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 ongoing annual commitment.

- **Extend partnership with Friends of Trees by sponsoring and participating in tree plantings in neighborhoods adjacent to or near Port facilities to offset impacts from Port operations. Events include an employee service opportunity.**
  - **Develop a Pacific Lamprey monitoring plan in conjunction with the US Fish and Wildlife and the US Army Corps of Engineers for locations near Port Marine Terminals by June 30, 2017. This is a two-year target that is intended to meet the Port's obligation under the 10-year terminal-wide berth maintenance permit.**
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## Water Resources

**Objective: Minimize impacts to water resources**

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. The strategy also provides the tools and framework to identify, evaluate and prioritize water conservation projects and sets the basis for water conservation goals and targets.

**FY 2015-16 Targets:**

- **Reduce the Port's potable water consumption through the use of the Port's non-potable water resources to meet 100% of the non-potable water uses at the new PDX Rental Car Quick Turn-Around Facility.**
  - **Assess potable water system losses and identify improvements at Terminal 4 through completion of the site-wide leak detection actions and tasks developed during the 2014 water audit. This assessment will provide a basis for actions that will conserve water at Terminal 4 and set the stage for a Port-wide leak detection program.**
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## Waste Minimization

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

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 ongoing commitment to innovative, industry-leading waste minimization efforts within the broader framework of the Port's Environmental Management System (EMS). This plan sets out a framework to achieve Zero Waste status by setting broad implementation strategies in key areas, with specific actions, priorities, and targets. The Port has made great strides toward zero-waste at Port-owned properties.

**FY 2015-16 Targets:**

- **Achieve 90% or greater landfill diversion by 2018. This is the third year of a multi-year target.**  
We will continue to implement the Five Years to Zero Waste plan by establishing baselines at four Port facilities: PDX Maintenance Central Facility, Landscape Maintenance, PDX Police Department Offices and the PDX Fire Department Facility. We will develop guidance for best practices in construction waste minimization for Port and tenant operations.
- **Conduct a Food Optimization Study for selected businesses in the PDX Terminal. The study will seek to understand how restaurant business purchasing, inventory, and marketing models influence levels of waste generation, while simultaneously assessing new opportunities for food diversion, food waste reduction for PDX concessions.**