

CITY OF PORT ANGELES

LIST OF GREEN ACCOMPLISHMENTS

~ July 2010 ~



1. City stepped up to the plate to take the lead in waste reduction / recycling in the community with a dedicated staff member. This program has been in place for at least 10 plus years.
2. The City has an active education, outreach, and technical assistance program for recycling. The program has been used throughout the City and Clallam County's education institutions, service organizations, businesses and residents. Some highlights include providing entertaining and educational sessions for students at various schools to learn and appreciate recycling efforts, introducing worm composting at schools, provide technical assistance for waste reduction at the hospital and other area businesses.
3. Port Angeles was the first city in Clallam County to go to single container recycling. Recycling participation is up and is included in garbage collection rates. The Clallam County residents do not have required garbage service and recycling is offered at an additional charge.
4. A convenient single cart recycling collection is available to all city residents and the cost is built into the rates. Cardboard recycling for businesses is also built into the rates.
5. All City facilities have full recycling service; service is also provided to the Port Angeles School District at a minimal charge.
6. Special event waste reduction and recycling is promoted: special recycling collection containers are available for loan and technical assistance is available. Ten events per year held within the City of Port Angeles receive recycling collection at no charge to the event organizers.
7. The City actively promotes all recycling of many items not collected curbside, including electronics, through publications, City website, radio ads, newspaper ads, recorded information lines, and special presentations.
8. City actively promotes backyard composting to all County residents through public outreach at special events, free classes, City website, and free instruction booklets in cooperation with the Department of Ecology
9. City actively promotes institutional composting through installation of on-site composting systems throughout the county in cooperation with the Department of Ecology.
10. The City has a modern composting facility that serves both the City and County, diverting yard waste from the Regional Transfer Station.
11. The City has implemented, promotes, and administers the "2 Good 2 Toss" program whereby residents can recycle reusable building and household products, diverting them from the waste stream.

12. City has conducted special events such as the “Home Show” where this year’s theme for the City was how to reduce the usage of household hazardous waste in the home and dispose of it properly. City also hosts a booth at the Clallam County Fair every year.
13. Currently the Solid Waste Division is assisting a non-profit group for ways to recycle plastics recycling at marine and port facilities. This is sponsored through a NOAA grant.
14. City has downsized its fleet and has newer, more fuel-efficient vehicles. City pool cars are compacts.
15. City purchased a hybrid for the recycling coordinator and the vehicle is available for other Public Works Staff.
16. City is reviewing options for the introduction of additional hybrids and electric vehicles.
17. All traffic signals are LED's and have been for at least 2 years.
18. City has a full time energy conservation staff person to coordinate and assist residential and commercial customers – and the City - with developing projects for conservation. The energy conservation program has been in place for 30 plus years.
19. Dynamic equipment is replaced with more efficient units.
20. Regular inspections are performed on electrical equipment and services to identify inefficient operations and when appropriate replace the equipment or service.
21. Regular reminders are sent out to office staff to turn off equipment and lights when not in use.
22. Biodiesel is used in all diesel engines with the exception of certain Public Safety equipment.
23. Vehicle records are reviewed on a regular to identify those that are not meeting targets.
24. City has implemented programs for residents to take advantage of photovoltaic net metering and solar water heating systems.
25. City has established goals and implemented methods for water use reduction.
26. City has sponsored energy efficiency rebate programs for windows, insulation, appliances, equipment, photovoltaics, solar water heating, and other conservation methods.
27. City is sponsoring an energy conservation kit with compact fluorescent bulbs, water saving devices, etc.
28. City partners with lenders on loans for energy and water conservation improvements
29. City has implemented electric time-of-use rates in 2007 to promote energy management.

30. City has conducted E-Waste events.
31. City is researching conversion of its water and electric metering to AMR/AMI technology.
32. City has hired a Stormwater Engineer of which sustainable stormwater systems are part of her responsibility.
33. Power Systems Division of Public Works has conducted and continues to develop a carbon footprint analysis of energy use citywide and vehicle use for City operations.
34. Through the City landfills, the City has creditable carbon sequestration, which is being analyzed for Cap & Trade potential.
35. City owns and operates the Morse Creek Hydroelectric Generation project, providing renewable energy to meet part of its power resources needs.
36. City began the Washington State performance-contracting program in 2009 to pursue water and energy efficiency improvements at City-owned facilities.
37. City is pursuing participation in Bonneville Power Administration demand response and smart grid demonstration programs.
38. City has conducted a preliminary feasibility study for landfill gas to energy generation project.
39. City has conducted a preliminary feasibility study for co-generation at a local industrial facility.
40. City is planning to increase its residential and commercial energy conservation programs as part of its Bonneville Power Administration tier 2 power needs.
41. City recently began participating in the Energy Star “Bring Your Green to Work” program promoting the wise use of energy at work.
42. City has achieved a 7% reduction in lost water from previous year.
43. City staff have attended Department of Energy pumping systems analysis and energy conservation training classes.
44. Received a grant from Olympic Region Clean Air Agency (ORCAA) for diesel emissions retrofit on 10 older diesel units. This will reduce particulate output of those units by a minimum of 60%
45. Implemented a policy to further reduce emissions and fuel consumption of vehicles by eliminating excessive vehicle idling.
46. Vehicles are being retrofitted, such as dump truck #1603, which is receiving a drop axle to allowing for greater efficiency per trip.

47. Variable Frequency Drive (VFD) and a Magnadrive were installed on Waste Water Treatment Plant (WWTP) aeration blowers to reduce energy usage while meeting system demands.
48. Two wastewater pump stations were designed for soft starts and power quality capacitors to reduce energy usage and avoid power surges.
49. Outside lighting controls at the Waste Water Treatment Plant (WWTP) were converted to turn on and off with a photocell.
50. A new dual burner control system controller was installed on the WWTP boiler to make the firing more efficiency.
51. A Stormwater Pollution Prevention Plan was implemented in 2007 for the Public Works & Utilities Corps Yard.
52. In 2008 Public Works installed a new oil water separator and berming for the Corps Yard transformer yard as a preventive measure for pollution.
53. In 2007, Parks switched to “Soundgro” an organic fertilizer, which is now used throughout all City athletic fields. The product also has the advantage that it is produced locally in the Northwest.
54. Over the course of the last three years, the Parks Division has replaced its irrigation system controls with improved capability to promote water conservation based on weather activities.
55. Over the course of the last two years, the Parks Division has eliminated the use of some irrigation systems in smaller parks for water conservation purposes.
56. In 2009, Public Works held a hazardous material round-up to reduce the inventory and properly dispose of many of the hazardous products it has used in the past.
57. In 2008 installed energy efficient LED emergency back-up lights for the Corps Yard.
58. Deputy Director of Operations is a participating member of the Sustainability Subcommittee for the Pacific Northwest’s chapter of the American Public Works Association.
59. In 2008, Public Works retrofitted the controls for the underground storage fuel tanks at the Corps Yard to improve its environmental compliance accountability.
60. Methane gas generated at the WWTP is used at the plant for heating purposes.
61. The Water Utility has embarked on an aggressive water system leak detection program resulting in the savings of large amounts of water from being wasted in the system.
62. Public Works has installed a decant facility to receive waste soil products, process, and return the useable soil for Public Works maintenance activities. This process diverts these

products away from the waste stream that would otherwise have to be disposed of through the Transfer Station.

63. In 2008, Public Works installed energy efficient garage doors at the Service Garage.
64. The City has hired a consultant to establish a source control program and associated ordinances in order to control harmful products from entering into the sewer system. Additionally, the City has hired a full time Source Control Coordinator to run the program.
65. The City runs an active septage receiving operation, to receive and process products from septic systems from within the City and County.
66. In 2008, the City added bi-weekly solid waste collection as an option, increasing efficiency of garbage collection driving routes.
67. In 2007, switched completely to off-peak hour pumping for the water system to conserve energy.
68. In 2009, installed the Morse Creek water-main meter to be able to model flow losses in order to be able to effect water loss controls.
69. The Equipment Services Division has studied the potential for conversion of part of the in-town vehicle fleet to electric vehicles. This technology continues to be evaluated and is expected to be introduced to the fleet starting in 2010 or 2011.
70. The Equipment Services Division has studied the potential conversion of its solid waste packer trucks to hydraulic assisted hybrid technologies. This technology is still emerging and may be ready for introduction to the fleet in the 2011 to 2012 timeframe.
71. City's Urban Services Standards support Low Impact Development (LID) best management practices and treatment facilities, including those associated with Planned Low Impact Development Overlays Zones (see PAMC 17.44)
72. City is encouraging LID use through implementation of its NPDES Stormwater Phase 2 permit
73. City employees are dedicated to recycling and eliminating waste in the workplace.
74. Lighting in the Vern Burton Main Hall was recently replaced with high efficiency fixtures and bulbs that will reduce electric consumption by 50%.
75. City offers a \$100 rebate to City utility customers for disposal of old and inefficient freezers and refrigerators.
76. City hosted a "City Hall Turns Green" event during Earth Day week featuring displays on waste reduction and conservation and sponsored a "Green Trivia" contest to further educate the public.

77. City offers Smart Metering & Time-of-Use Rate for residents to shift energy use from heavy load hours, to light load hours to reduce energy use and costs.
78. City is a participating utility in the “Change-A-Light” program, which preserves energy resources and the environment while saving citizens money on energy bills and bulb replacements.
79. City provides information about the use of the renewal energy resource of solar energy through the use of photovoltaic systems.
80. City uses biosolids to produce compost to provide approximately 7000 cubic yards of compost each year.
81. City provides a household hazardous waste/moderate risk waste facility as part of the Regional Transfer Station facility.
82. City partners with North Olympic Waste Reduction to produce a “Recyclopedia” to further educate the public on ways to reduce, reuse and recycle.
83. The City’s website includes comprehensive information regarding Recycling and Conservation.
84. The City provides an online utility payment feature to improve customer service and reduce the use of paper and energy for transportation.
85. The City has created a Low Impact Development Overlay Zone allowing density credits and incentives for those developers choosing to utilize environmentally friendly low impact development techniques.
86. The City implemented site coverage limits designed to restrict impervious surfaces to limit stormwater impacts.
87. The City recently amended the subdivision ordinance to require street trees and landscape buffers on all arterial streets.
88. The City has drafted a Land Development Guide to educate the public and developers on sound development practices and expectations
89. The City has drafted Low Impact Development standards to reduce stormwater impacts and protect the natural environment from adverse impacts of development.
90. The City has identified environmentally sensitive areas, which it monitors and enforces to ensure long-term protection.
91. The City requires a certain number of trees must be planted adjacent to parking areas to contribute to responsible stormwater management, greener development, beautification, and a pleasant aesthetic environment and community.

92. The City has the provided incentives to encourage maximum allowable density for development to promote efficient use of the local land base and discourage sprawl.
93. The City has developed a Planned Residential Development overlay zone where 30% of the land base is preserved as open space and clustering of buildings eliminates impact to environmentally sensitive areas.
94. The City has partnered with the Department of Ecology to develop a phased approach to environmental remediation and cleanup of the Rayonier Mill site and Port Angeles Harbor. This has resulted in the creation of a dedicated development authority to continue Brownfield redevelopment throughout the Port Angeles waterfront.
95. The Port Angeles Fire Department has policies and practices to prevent waste from being produced with examples including printing on both sides of paper, using email instead of printed correspondence, and using reusable, refillable, repairable or recyclable products whenever possible. The Fire Department kitchen facility uses dishes, glasses and reusable flatware rather than disposable paper and plastic ware. The Department also participates in separating recyclable materials purchasing and using products manufactured from or containing recycled materials.
96. The Port Angeles Fire Department has set standards and procedures to reduce energy costs, minimize environmental impact including controlling thermostat temperatures, maintaining equipment properly, reducing hot water tank temperatures, keeping bay doors closed, turning lights off, turning off non-essential computer and other office equipment, use of timers and motion detectors, use of Energy Star appliances and LED bulbs, reduction of irrigation practices, full loads in both dishwasher and clothes washers.
97. The Port Angeles Fire Department periodically schedules energy audits of its facility and current overall energy consumption. The data from these audits shall be used for the purposes of energy conservation planning, budget development, and will serve as the basis for an operational review to identify methods to increase energy conservation. Recommendations from energy audits will be evaluated based on cost effectiveness and the impact of service delivery to City residents.
98. The Port Angeles Fire Department Travel Policy directs employees to carpool when attending training or conferences and also encourages the use of conference calls or web-conferencing to reduce travel costs and energy. Department vehicles receive regular preventive maintenance and new vehicles must be the most fuel-efficient vehicle/apparatus that will meet Department's needs.
99. The City worked with the alternative transportation committee to update the comprehensive plan and capital facilities plan to promote City development in a manner consistent with a functioning multi-modal transportation system.
100. The City created and infill overlay zone to promote infill rather than urban sprawl, to encourage efficient use of our limited land base and to encourage development near multi-modal transit.

101. The City has elected to incorporate a non-mandatory conservation element in the Comprehensive Plan to preserve a clean, healthy, and diverse natural environment. This element outlines 4 goals, 37 policies, and 18 objectives.

102. The City's mission statement includes....."In partnership with the community, we are stewards of our unique environment and quality of life".