

TACOMA'S CLIMATE ACTION PLAN 2008

VIII. Two-year Action Plan: 2009-2010

Progress to Date (March 1, 2010)

City Leading by Example - Actions to be Taken by City Government

<p><i>Strategy:</i> City implement environmentally responsible purchasing policy. Actively support state and regional product stewardship efforts. Require double-sided printing of all City documents.</p> <p><i>Aim:</i> 25% of City's copier paper purchases are a minimum of 30% recycled content. Cut paper use 10% each year.</p>	<p>Internal Green Team formed in October 2009. Sustainable Purchasing Subcommittee has been meeting since December to develop a comprehensive Sustainable Purchasing Program. 2008-2009 purchases entered into SAP are being reviewed to determine what categories of goods we are spending the most on, which goods seem wasteful, and to identify environmentally preferable alternatives.</p> <p>The Green Team, in conjunction with Sustainable Purchasing Subcommittee and OoS interns, will track paper purchases.</p>
<p><i>Strategy:</i> All new or renovated buildings to be used or funded by City built, at a minimum, to LEED Silver criteria or an appropriate alternative green building standard.</p> <p><i>Aim:</i> 50,000 sq. feet per year of new/renovated green buildings.</p> <p><i>Strategy:</i> Require purchase of fuel-efficient and alternative-fuel vehicles required for City fleet.</p> <p><i>Aim:</i> 12 hybrids and 3 electric vehicles purchased each year.</p>	<p>Center for Urban Waters is scheduled for completion in 2010 and planned for LEED Platinum. Designs are almost completed for a new Solid Waste office and transfer station which are both aiming for LEED Silver (51 KSF). Completing construction of the new Pacific Plaza garage (old South Park Plaza) which was designed to LEED Platinum standards. The Pacific Plaza project constructed the City's first green roof and a rain water reclamation system to provide water for the roof and toilets. The TPU Shops building received a LEED Certified rating in 2006.</p> <p>GG Fleet - 15 hybrids were purchased as pool vehicles in 2009; 4 of which are PHEV (Plug-in Hybrid Electric).</p> <p>TPU Fleet - Currently has 34 HEV's consisting of 4 PHEV, 1 diesel electric hybrid aerial truck and a mixture of HEV sedans and SUVARRA Stimulus Grant funding will allow for the purchase of an additional 3 Hybrid Sedans, 9 Hybrid SUVs, 3 Diesel Electric Hybrid Medium Duty Trucks, and 7 Hybrid Step Vans. 11 purchases will be made in 2010 with the remaining made in 2011. TPU Fleet/Tacoma Power is a strategic partner in the ARRA Etec/Nissan Leaf electric vehicle project. Preparation is in progress with vehicle deployment scheduled for 4th quarter of 2010. TPU was approved by the WSDOE for a grant providing diesel retro-fit/diesel oxidation catalysts (DOCs) for 58 diesel-powered vehicles. The COD retro-fits were completed in 2009.</p>
<p><i>Strategy:</i> Contractors using low-emission equipment and low-carbon fuels receive a preference when bidding on City contracts</p> <p><i>Aim:</i> 12,500 gallons of diesel are switched to B20 or other renewable fuel.</p> <p><i>Strategy:</i> Reduce City's electricity use by implementing energy conservation measures in facilities and incorporating energy-efficient technology in streetlights and traffic signals. (City participate in Tacoma Power's EverGreen Options program at EPA Green Power Partner level).</p> <p><i>Aim:</i> 1. Energy audits and improvements on two City-owned buildings per year; 2. 50% of City electricity usage is green power or offset by purchase of green tags.</p>	<p>No action to date. Will be addressed in Sustainable Purchasing Program</p> <p>TPU Fleet consumes approximately 90,000 gallons of B20 annually displacing appx 18,000 gallons of diesel fuel with bio-diesel.(90000x.20=18000 gallons B100)</p> <p>Programming energy and water audits for the two downtown municipal buildings in 1st Quarter 2010. Completed a facility condition assessment for 50 City-owned buildings that established the current maintenance condition for each building. This information will be used to more effectively program the repair and replacement of inefficient, older, and obsolete equipment and systems with energy efficient equipment and systems. Continuing the implementation of Building Automation System hardware and software that allows for the remote control, monitoring, and programming of HVAC systems in city-owned buildings. Completed training of several facilities management staff on EPA's Energy Star program. Tacoma Power has conducted energy audits at the Tacoma Dome, Muni Building, Fire Station #1, and the Lighthouse Senior Center. The installation of LED traffic signals continues. Lighting retrofit projects were completed in 2009 at the Pantages Theater and the Tacoma Police Department facility.</p> <p>See update above on audits. Further discussion/clarification needed on Aim (2)</p>
<h4>Moving People and Goods More Efficiently</h4>	
<p><i>Strategy:</i> Begin creating and implementing a comprehensive Citywide bicycle and pedestrian plan.</p> <p><i>Aim:</i> 300-350 workers walk/bike to work on average of one day per week.</p> <p><i>Strategy:</i> Expand promotion of Pierce Transit's online ridesharing and carpooling system.</p> <p><i>Aim:</i> Create 125 new two-person carpools and 60 new four-person carpools yearly.</p> <p><i>Strategy:</i> Recruit a car-sharing service to Tacoma; evaluate possible use in public-/private-sector fleets.</p> <p><i>Aim:</i> 30-35 car-share vehicles in Tacoma with 800-950 members by 2012.</p>	<p>Alta Planning is assisting the City with development of the Mobility Master Plan. This document is focused on an improved and expanded bicycle and pedestrian network and related policy. We will have a Planning Commission Public Hearing on March 3 and go before Council for approval in June 2010. We are also collaborating with Downtown: On the Go! to create a series of walking maps that will help familiarize downtown residents and employees with walkable distances. And are working closely with Pierce Transit and Pierce County to plan an expanded Bike Month 2010.</p> <p>We are always working to expand rideshare and carpooling (and all other commute options) with Pierce Transit, Pierce County, the Chamber and employers on www.PierceTrips.com. And we are focusing again on downtown employers with our Transportation Partnership and the \$150K EECBG grant.</p> <p>Pierce County received \$300K in CMAQ (Congestion Mitigation and Air Quality) funds to purchase hybrids and implement a car sharing program modeled on Kitsap Transit's successful ScootCar program. The cars would be sited in locations with high employment density. The funding will not be available until January 2011. We have also been in negotiation with Zipcar. There is strong interest and support from the business community, 12 members of the Downtown: On the Go! Transportation Partnership signed a letter of support demonstrating interest and encouraging Zipcar to come to Tacoma. Although at this time it looks like Zipcar will not site cars downtown, they are interested in having cars at the University of Puget Sound and we are working to build a better case for the Tacoma market.</p>

<i>Strategy:</i>	Encourage telecommuting and alternative work schedules for all public-/private-sector employees.	Pierce County did not receive the WA Dept of Commerce Transportation Demand Mgmt Grant for a telework program for employers. We are currently determining how we can support employers interested in telework and alternative work schedules with our current funding and will continue to seek out new funding opportunities.
<i>Aim:</i>	2.5% of Tacoma's workforce telecommutes one day per week.	

Enhancing Compact/Livable Neighborhoods

<i>Strategy:</i>	Begin a regional Transfer of Development Rights (TDR) program with Pierce County.	The City Council adopted the proposed revisions to the Mixed-Use Centers Zoning and Regulations on July 28, 2009, Amended Ordinance No. 27818. The City has applied for a \$110,000 EPA grant to assist in the development of a regional TDR program. Staff is also working with Cascade Land Conservancy on developing new legislation aimed at directing State infrastructure funding to Cities with TDR programs.
<i>Aim:</i>	25 TDR's per year beginning 2010.	
<i>Strategy:</i>	Adopt and fund the Open Space Habitat and Recreation Plan.	Open Space Management Team is meeting to coordinate and begin implementing Strategic Action Plan as called for in the Policy.
<i>Aim:</i>	Acquire 10 acres of open space by 2012.	
<i>Strategy:</i>	Increase tree planting requirements/incentives for all development, including transportation projects. Increase tree planting on City/public property.	Draft Urban Forestry Policy going through Comp Plan Amendment 2010 cycle.
<i>Aim:</i>	20,000 trees planted in the city per year.	
<i>Strategy:</i>	City implement smart growth principles. Policies should increase mobility while decreasing dependence on private vehicles.	The City Council adopted the proposed revisions to the Mixed-Use Centers Zoning and Regulations on July 28, 2009, Amended Ordinance No. 27818. City Staff continues to review existing policies and codes relating to transportation. Planning staff is coordinating with other agencies to implement commute trip reduction activities and recently completed complete street guidelines for the mixed use centers.
<i>Aim:</i>	<ol style="list-style-type: none"> 1. Residential densities of 25 dwelling units per acre and employment densities of 125 employees per acre in mixed-used centers; 2. Reduce single occupancy vehicle commuting in the city by 10%; 3. Reduce average one-way commute distance in the city by 10%, from 13.8 miles. 	

Energy Efficiency in our Buildings, Homes and Industries

<i>Strategy:</i>	Tacoma Power is increasing electricity conservation in preparing for the conservation and renewable acquisition required between 2010 and 2020 by Initiative 937.	As of Year End 2009, Tacoma Power has the staff and programs it needs to achieve this goal. Programs currently available include C/I Custom Retrofit, Equipment Rebates, Lighting, Compressed Air, LED Signals, New Construction and Energy Smart Grocer. Current residential programs include: Weatherization for Single Family and Multifamily, Clothes Washer, Refrigerator Recycling, Showerheads, Heat Pumps, Retail and Distributor Lighting and CFL Distribution. CRM has acquired about 43,000 MWhs (or 47% the biennial CAP goal) of conservation and is confident of reaching its goal of 56,976 MWh by the end of the biennium. This goal of 56,975 MWh equates to a carbon value of 23,075 short tons (assuming the marginal resource 810 lbs / MWh grid impact – Power Council). CRM biennial budget is about \$31 million.
<i>Aim:</i>	Acquire 56,976 MWh of electricity conservation savings.	
<i>Strategy:</i>	Encourage installation of solar and other renewable energy.	There are two pieces to the co-digestion project. One is the construction of a solids receiving station that will allow us to take organic wastes into the digester. This portion of the project is complete. Part two is the installation of the gas fired electrical generators. We are trying to obtain a grant to pay for part or all of this portion of the project. Unfortunately, our most promising grant opportunities have not come through. We will keep this project on our capital projects list but it is currently unfunded.
<i>Aim:</i>	Acquire an additional 50kW of new renewable electricity generation on Tacoma's grid.	Solid Waste Transfer Station is planning 10kw solar pv system (schedule for construction 2010). The total additional capacity of solar electric generation connected to Tacoma's grid from January 2009 through February 2010, was 56 kW. This is a net increase from 48 kW solar at the end of 2008 to 104 kW through February 2010. This more than doubling of capacity includes two of Tacoma's largest systems - 24 kW at Tacoma Community College and 10 kW at Pierce College. New renewables development: A rebuild of two units at Tacoma Power's Mossyrock hydro facility are underway and anticipated to produce 4.8 aMW of new renewable energy annually beginning mid to late 2010. Cushman Project upgrades are under evaluation.

Reuse and Recycle . . . From Buildings to Food Waste

<i>Strategy:</i>	Study/implement additional recycling programs and policies toward goal of collecting 100% of traditional recyclable materials by 2020.	<p>On the planning side, SWM is conducting a comprehensive characterization of the waste stream. The purpose of the characterization is to quantify recyclable items in the various disposed waste streams. This will allow for a more targeted approach for SWM recycling programs, and will be vital information in planning improvements to future diversion and marketing programs. The initial sort was completed in October 2009, and the second sort is scheduled for April 2010. The characterization project will be completed in 2010.</p> <p>On the Operations side, SWM is</p> <ul style="list-style-type: none"> • Working on expanding and improving the Division's transfer station, which will greatly improve the ability to divert recyclable materials in the waste stream. The project design is nearly complete, and scheduled to go out to bid in March or April of this year. Project construction will occur in 2010 and 2011. • Expanding commingled recycling programs for commercial entities, which specifically targets the "traditional" recyclables. Onsite visits are being conducted to help market the program. <p>Other programs not targeting "traditional" recyclables:</p> <ul style="list-style-type: none"> • Development of food waste recycling options for commercial and residential customers. A pilot program with approximately 100 customers has a planned start date of summer of 2010.
<i>Aim:</i>	Additional 10,000 tons of commingled recycling.	