

**2013 City of Seattle Municipal Operations Climate Action Work Plan
Progress Report
3-12-13**

Program/Policy	Sector Targets	2012 Accomplishments	2013 Actions
Transportation Sector			
Fleets Lead staff: Chris Wiley (FAS)	Targets to be derived from updated fleets plan	<ul style="list-style-type: none"> • Purchased four all-electric parking enforcement officer (PEO) scooters and are evaluating whether or not to expand their use in parking enforcement operations. • Developed a standard lighting package for all patrol vehicles that use energy efficient LED lighting. • Installation of an idle-management system in all patrol vehicles is now standard. Fuel reduced in 2012 (from 2011 levels) = 12, 142 gal. 255 model year 2012 vehicles were purchased (163 are capable of running on biodiesel; 26 are all-electric vehicles; 7 are hybrid (gas-electric) vehicles)	Update Fleets Plan <ul style="list-style-type: none"> • Develop policies and initiatives to reduce petroleum fuel use <ul style="list-style-type: none"> ○ Fuel economy standards for gas vehicles ○ Replacement vehicle decision hierarchy • Police vehicle focus <ul style="list-style-type: none"> ○ Electrify PEO vehicles ○ Install idle-management systems in patrols ○ Install energy efficient lighting packages in patrol vehicles
Employee travel – CTR Lead staff: Cristina VanValkenburgh (SDOT)	<ul style="list-style-type: none"> • 10% reduction in drive alone • 13% reduction in vehicle miles travelled 	<ul style="list-style-type: none"> • Established pilot program with two new vanpools and a total of 23 riders. • RFP will be issued January 2013 to complete design of inWeb website Q3 2013 • Bicycles are now a part of eGo reservation system • Reviewed employee parking policies (see enclosed table) 	<ul style="list-style-type: none"> • Complete CTR inWeb design • Implement City-wide transition to ORCA Passport
Employee travel – air travel Lead staff: Wes Hopper (OSE)	Establish reduction target	<ul style="list-style-type: none"> • Travel form created but not yet implemented City-wide • Some departments are tracking air travel • GHG inventory to be done in 2013 	<ul style="list-style-type: none"> • Implement new travel form to track emissions • Departments track air travel
Buildings & Sites Sector			
Existing buildings Lead staff: Sandra Mallory (OSE)	20% reduction in energy use across City's building portfolio by 2020	<ul style="list-style-type: none"> • All City buildings ≥50,000 SF benchmarked, as well as all community libraries. • Completed data collection protocol for building characteristics. • Completed conservation effectiveness evaluation. • 10 CPW municipal retrofit upgrades were accomplished through 3rd quarter. 	<ul style="list-style-type: none"> • Develop Resource Conservation Management Plan • Implement CPW municipal retrofit upgrades

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New construction, major renovations & tenant improvements Lead staff: Sandra Mallory (OSE)	<ul style="list-style-type: none"> All projects successfully meet the minimum requirements of the 2011 Sustainable Buildings & Sites Policy 30% of new construction, major renovation and large tenant improvement projects achieve LEED Platinum 	<ul style="list-style-type: none"> Steering Committee in place with monthly meetings throughout 2012. Reporting protocol for LEED projects completed. Capital Green Toolkit update completed and available for use on 2013 projects. 	<ul style="list-style-type: none"> All projects successfully meet the minimum requirements of the 2011 Sustainable Buildings & Sites Policy 30% of new construction, major renovation and large tenant improvement projects achieve LEED Platinum Capital Departments utilize the Capital Green Toolkit for projects smaller than 5,000 sf.
Sites Lead staff: Sandra Mallory (OSE)	Establish 2020 target	Sites sub-committee in place. Compilation and review of existing City guidelines underway.	<ul style="list-style-type: none"> Establish 2020 target Develop recommendation for Citywide sustainable sites management and operations guidelines.
Infrastructure Sector			
Streetlights Lead staff: Steve Crume, Kelly Davidson (SCL)	<ul style="list-style-type: none"> Reduce streetlight energy use by 48% -62% Reduce GHG emissions by 20,000 metric tons Reduce mercury and lead hazardous materials usage 	<ul style="list-style-type: none"> Completed Ballard, Belltown, and Mercer East streetlight projects. West Seattle Bridge scheduled to be completed in 2013. Completed the Arboretum / Lake Washington Boulevard Streetlight Infrastructure replacement project which included 73 ornamental / boulevard style LEDs. 	<ul style="list-style-type: none"> Begin implementation of Horizon Plan Projects. Complete three (3) Seattle Housing Authority grounding projects. Start design for Horizon Plan project that will be constructed in 2014. Seek sections of Horizon Plan projects to complete in coordination with trouble tickets. Partnering with SDOT construction for Mercer West, First Hill Streetcar, and Elliot Bay Seawall. Complete design of 23rd Arterial and Seattle Center Perimeter. Execute construction with partner agencies in 2014.
SDOT building materials Lead staff: Denise Healy (SDOT)	Reduce the amount of cement used in CPRS roadway paving projects	<ul style="list-style-type: none"> Implemented and evaluated the impact of the carbon offset program for concrete in CPRS Projects. Avoided emitting 134 CO2 tons by using green paving materials in the Capital Projects and Roadway Structures (CPRS) division roadway paving projects (this figure was calculated using construction data) Exception memos for projects using non-green concrete 	<ul style="list-style-type: none"> Determine whether design or construction data is most useful as a measurement of our reduced cement use Conduct a variable mix summit with suppliers and contractors with the aim of getting their feedback on the existing specifications and their suggestion on how to improve the specification

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		<p>prepared for Director's approval</p> <p>Lbs of cement per cubic yard of concrete (at design level) for CPRS roadway paving projects in 2012 = 515 lbs cement per cubic yard. The range allowed by the standard specs is 505-752. This value is high if you use data from actual construction.</p>	<ul style="list-style-type: none"> • Develop proposals for specification changes that will encourage pozzolan use to replace cement in roadway concrete and improve the variable mix specification • Evaluate specification proposal in context of a specific project at design phase. • Evaluate asphalt warm mix asphalt and develop warm mix spec proposal • Transmit cement and warm mix spec proposal for inclusion in 2014 spec revision.
<p>Green infrastructure – GSI Lead staff: Tracy Tackett (SPU)</p>	<p>Establish reduction target</p>	<ul style="list-style-type: none"> • Established GSI implementation target of managing 500 million gallons of stormwater on average each year with GSI approaches by 2025, to be achieved via a combination of publicly and privately owned and maintained facilities. • Initiated Ballard Natural Drainage Systems 2015 and Delridge Natural Drainage Systems 2015 Projects, and continued development of Venema Natural Drainage System. • Initiated efforts, in partnership with OSE and EPA, to quantify and assess impact of Seattle's GSI efforts on concrete emissions and CO2 sequestration. 	<ul style="list-style-type: none"> • Initiated effort for development of GSI 2025 Implementation Plan, including developing executive level support. • Initiate Interdepartmental teams to develop the next level of information to facilitate GSI projects implementation on public and private projects. • Continue efforts on Ballard, Delridge and Venema Natural Drainage Systems Projects • Integrate framework for assessing emissions benefit of GIS into capital project lifecycle evaluation.
<p>Adaptation</p>			
<p>Lead staff: Tracy Morgenstern (OSE)</p>	<p>Seattle is preparing for climate impacts</p>	<ul style="list-style-type: none"> • Adaptation planning goals and principles were developed and will inform 2013 planning efforts. • City Council approved SCL's 6-year Strategic Plan that includes "Objective 4: Continue Conservation and Environmental Stewardship Leadership with a focus on investing in capacity to assess and address long-term resource risks associated with climate change. • Research efforts will begin with funding a National Park Service glacier scientist to complete inventory of North Cascades glaciers and conduct hydrology modeling for glacier-fed streams at Skagit Hydroelectric Project. 	<ul style="list-style-type: none"> • Develop a tool to guide evaluation of equity impacts and development of strategies to embed equity in climate action • Develop a framework for considering the impacts of climate change on the electrical distribution system • Identify opportunities for improving how climate information is incorporated into capital project planning

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Green Purchasing Sector			
Lead staff: Shilri Axelrod (SPU)	<ul style="list-style-type: none"> - Increase recycled content and tree-free options for paper purchases - Increase use of recycled-content construction materials in City projects, in particular RAS (recycled asphalt shingles) in paving - Improve recycling language in City construction contracts 	<ul style="list-style-type: none"> • Gathered partial information on City department purchase of bathroom papers, which are 40-70% pcw; assessment ongoing. • Provided recycled-content product information for projects including SPU transfer station. • Improved language in City Standard Spec 2012 version • Number of project s reporting is ad hoc only; in 2013, engage appropriate project managers in order to get reporting. 	<ul style="list-style-type: none"> • Assess local availability, performance, and costs of higher-recycled-content bathroom papers. • Continue providing recycled-content product information for SPU projects; • With FAS Public Works, City Standards Engineer, and FAS Contracting, incorporate language relating to recycling of wastes and recycled product use
Waste Sector			
Lead staff: Wes Hoppler (OSE)	Establish baseline and waste reduction target	<ul style="list-style-type: none"> • Waste site survey drafted - to be fielded Q1 2013 • Assessed Waste Stream Analysis Cost – statistically significant assessment cost prohibitive. • Conducted Key interviews for Seattle Center Best Practices study. • SPU’s Solid Waste Management Plan waste diversion goals incorporated into Draft RCMP 	<ul style="list-style-type: none"> • Field Solid Waste Profile Survey • Set composting and recycling access targets
Total GHG Reduction Goal	30% reduction in emissions from 2008 levels from City operations (72,600 Metric Tons CO2e) by 2020		