

Environmental Action Plan Budget

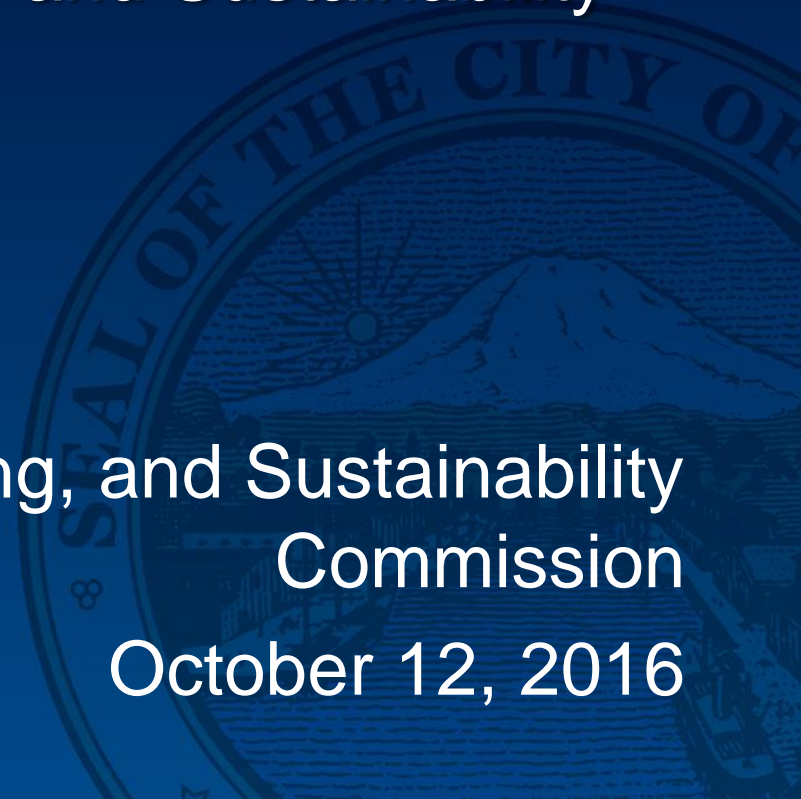


City of Tacoma

Office of Environmental Policy and Sustainability

Infrastructure, Planning, and Sustainability
Commission

October 12, 2016



Overview



- EAP Adopted in April 2016
- 69 Actions
 - Serving Our Community
 - City Leading by Example
- Subset of “Early Actions” 2016-2018
- Sustainable Tacoma Commission Prioritized Actions
- 2017-2018 Implementation Budget



Early Action Prioritization

- Biggest Bang
 - Environmental Benefits
 - Public Support
- Needs multi-year implementation or ramp-up
- Called for in 2008 Climate Action Plan



OEPS Enhancement Summary

- Environmental Action Plan Support
 - Urban Forest Management Plan and Construction Assessment
 - Resource Conservation Program
 - Woodstove Program Support
 - Equitable Access to Healthy Food
 - Electric Vehicle Program
 - Increased Staff Support
 - Urban Forester, New Project Specialist, Full-time HHHN Occupational Intern





Buildings and Energy

Indicator Measures	Baseline	2020	Target
Achieve all cost effective electricity conservation savings (millions of kWh)	196 mil	239 mil (2017)	43 mil increase
Fund all cost effective low income residential conservation spending (\$ in millions)	\$13.4	\$16.8 (2017)	3.4 increase
Solar power (kw)	946	1196	26% increase
Water conservation (million gallons)	228 mil	273 mil	45 mil increase
Increase Green Buildings		--	--
LEED Buildings	41	49	20% increase
Energy Star Buildings	14	28	100% increase
Reduce Municipal Energy Use (kwh)	60,233,797	54,210,417	10% decrease
Reduce Municipal Water Use (CCF)	99,104	89,193	10% decrease



Buildings and Energy

Actions		Lead(s)	Implementation Status
B-1	Meet I-1937 energy conservation targets	TPU	Budgeted and on-track
B-2	Develop a pilot commercial Resource Conservation program	TPU	Budgeted and on-track
B-3	Continue to develop water conservation incentives, rebates and education	TPU	Budgeted and on-track
B-4	Hire a green building advocate for the City's Permit Office*	PDS/SW	Existing staff are being trained
B-5	Retain funding for low income energy efficiency programs	TPU	Budgeted and on-track
B-6	Support efforts at the state and local level to incentivize conservation in rental properties	Gov't Relations	In draft Legislature Manual
B-7	Work with Regional Code Committee to increase energy efficiency standards in the State Energy Code and Building Code	PDS/TPU	Existing staff will participate
B-8	Develop community owned solar and support distributed energy	TPU	Budgeted and on-track



Buildings and Energy

Actions (continued)		Lead(s)	Implementation Status
B-9	Require annual public reporting of energy use for all medium to large commercial properties, including multi-family buildings	OEPS	Policy development and regulatory framework in 2017/2018; no funding needed
B-10	Upgrade all streetlights to LED where cost effective	PW/ TPU	With support from TP, replace or update 77% (16,400)
B-11	Track and report City buildings' utility performance and Energy Star scores. Develop a Resource Conservation Management (RCM) Plan and Policy.*	OEPS/ TPU	In recommended budget; \$19,500 (no FTE)
B-12	Meet federal Better Building Challenge goals	PW/ES/ TPU	Currently establishing baseline; RCM task
B-13	Certify all existing LEED buildings (CUW, SW Office, Fleet/Police) as LEED Existing Building Operations and Maintenance	PW/ES	CUW and TPD/Fleet Campus in progress



Transportation

Indicator Measures	Baseline	2020	Target
% Single Occupancy Vehicle Trips	77.40%	70%	7% decrease
EV registration	383	2000	382% increase
Bicycle and pedestrian collisions in low income and minority neighborhoods	276	138	50% decrease
Pedestrians (as measured during annual Bike/Ped count week)	675	776	15% increase
Bicyclists (as measured during annual Bike/Ped count week)	3642	4188	15% increase
Municipal fossil fuel use (gal)	1,558,076	1,324,364	15% decrease
% of employee single occupancy vehicle commute trips	75%	70%	5% decrease



Transportation

Actions		Lead(s)	Implementation Status
T-1	Develop education programs and materials on electric vehicles	OEPS/TPU	In recommended budget; \$10,000
T-2	Establish dedicated and stable funding for active transportation education and programs	PW	\$2mil/year for facilities; Coordinator to be hired
T-3	Synchronize and recalibrate traffic signal timing on arterials*	PW	Upgrade 12 inter-sections by 2018 (5%)
T-4	Become a Bicycle Friendly Silver Community by implementing MoMap projects (5 roadway projects and 3 trail projects)	PW	5 trail and 1 roadway project in progress
T-5	Support 4 multi-year Safe Routes to School Programs	PW	PW has 2-year goal to implement a SRTS program
T-7	Develop sidewalk, curb ramp and crosswalk inventories	PW	Inventory complete, developing plan for condition index
T-8	Advocate for incentives for fuel-efficient/alternative-fuel vehicles	Gov't Relations	In draft Legislative Manual
T-10	Equip operationally appropriate vehicles with fuel-saving/anti-idling technology	PW/TPU	Ongoing



Transportation

Actions (continued)		Lead(s)	Implementation Status
T-11	Convert solid waste trucks to renewable natural gas	SW	Ongoing
T-12	Develop employee fuel reduction and commute program	OEPS	RCM task
T-13	Update City's telecommuting policy and flexible work schedule	OEPS	RCM task
T-14	Join West Coast Electric Fleets at the Highway Lane Levels	PW/TPU	In progress
T-15	Incorporate contractor fuel emissions reduction standards bids	PW/ES/ Purchasing	RCM task



Material Management

Materials	Baseline	2020	Target
Waste diversion from the landfill	55%	60%	5% Increase
Per capita waste generation (lbs.)	4.44	3.89	11% reduction
Commercial composting accounts (#)	110	220	100% increase
Multi-family accounts	1105	1160	5% increase



Material Management

Actions		Lead(s)	Implementation Status
M-1	Develop Construction and Demolition Diversion program. Phase I to include education and reporting.	SW/PDS/OEPS	Ensure inspection compliance and conduct permit desk education
M-2	Support and advocate for strong product stewardship policies at the state and national level	OEPS/SW	In recommended budget; \$40,000
M-3	Provide financial incentives to increase diversion of materials at the Tacoma Recovery and Transfer Center	SW	Budgeted and on track for 2017; material markets will dictate materials selected
M-4	Conduct and support education and outreach on waste prevention and toxic reduction*	SW/OEPS	Fill existing vacant position to perform this work, along with a re-prioritization of existing staff
M-5	Incentivize the use of sink food grinders	SW	Program development to start in 2017
M-6	Provide recycling and composting education and outreach targeted at multifamily property managers and tenants	SW/OEPS	Existing staff reprioritized



Material Management

Actions (continued)		Lead(s)	Implementation Status
M-7	Require new buildings to provide adequate space and receptacles for recycling and organics storage and collection	OEPS/SW	New state requirements as of July 2016
M-9	Reduce disposable bag use by shoppers	OEPS/SW	In recommended budget; \$50,000



Food and Air

Indicator Measures	Baseline	2020	Target
Healthy fine particle pollution level days	356	365	2.5% increase
# of low income and racial minority census track with community gardens	14	16	14% increase





Food and Air

Actions		Lead(s)	Implementation Status
A-1	Continue to collaboratively seek federal and state funding for reducing wood smoke pollution	OEPS	Budget requested
A-2	Sustain and grow community garden program through enhanced garden support and education	ES	In recommended budget^
A-3	Create and fund a reporting system and feedback forum for the city to hear from those suffering from food insecurity	NCS	In recommended budget^
A-4	Support gleaning in Tacoma through funding and outreach	OEPS/ NCS	In recommended budget^
A-5	Support urban agriculture and clear legal hurdles so citizens can sell produce grown in the city	OEPS/ CED	Existing staff re-prioritized
A-6	Support innovative projects to encourage more disadvantaged citizens to shop at farmer's markets	OEPS/ CED	In recommended budget^
A-7	Pilot 1 to 2 small-scale urban agriculture programs on public land	OEPS	Develop Work plan and site in 2017/2018
A-8	Implement community supported agriculture (CSA) pick-up at 4 city facilities for employees	OEPS	RCM task



Natural Systems

Indicator Measures	Baseline	2020	Target
Solids removed from streets, pipes and filtration systems through stormwater BMPS (tons)	3575	3575	maintain
Increase tree canopy with a focus on low income and minority neighborhoods	pending		pending
Actively managed open space (acres)	57.5	87.5	66% increase
Blocks of permeable residential streets	28	53	90% increase
Volunteers engaged in stewardship activities and programs	3420	4104	20% increase



Natural Systems

Actions		Lead(s)	Implementation Status
N-1	Fund implementation of surface water management plans using best management practices for each of the city's watersheds	SuW	Phase 1: Develop Plans; no additional funds needed
N-3	Develop Urban Forestry Implementation Strategy*	OEPS/PW/PDS/SuW	In recommended budget; \$200,000
N-4	Plan, create incentives for, and support green stormwater retrofit projects such as rain gardens and other installations	SuW	Recent rate break for GSI in code; Reforming Adopt a Raingarden program in 2017
N-5	Develop and manage an open space program based on watershed planning	SuW	0.5% rate increase to fund work; \$500,000
N-6	Improve regulations to encourage tree preservation and protection on private property and in the rights-of-way	OEPS/PDS	No additional funding needed
N-7	Create a public education campaign, targeted outreach effort or incentives about the benefits of native and pollinator-friendly species and the hazards of invasive species	OEPS	Begin work with no additional funding needed



Natural Systems

Actions (continued)		Lead(s)	Implementation Status
N-8	Adopt and implement Landscaping Manual and Integrated Pest Management Policy and Plan for all City facilities and train staff	SuW/ OEPS	To be completed with existing staff
N-9	Retrofit one City facility with Green Stormwater Infrastructure	PW/ SuW	Roads currently prioritized for GSI; working to ID facility



Climate Resilience

Indicator Measures	2020 Target (Yes or No)
Complete studies	
Use new information from studies to modify development codes as appropriate to ensure safety and resiliency	
Incorporate climate risks into formal asset management, CIP planning and implementation, and emergency management plans	
Educate and communicate to the public risks and opportunities for climate resilience and adaptation	
Have adequate and accessible cooling stations to address heat waves	
Identify which public infrastructure and public facilities are at unacceptable risk and prioritize adaptations	



Climate Resilience

Actions		Lead(s)	Implementation Status
C-1	Incorporate climate resilience actions into equity initiatives and programs, and consider future climate risk in emergency planning and hazard mitigation plan updates	CMO/NCS/ CED PDS/EMS	Work with existing staff to develop strategies
C-2	Preserve and expand urban forest canopies with climate resilient species	ES	Part of Urban Forest Implementation Plan
C-4	Begin a conversation with the business community around climate impacts and resilience	CED	Work with existing staff to develop engagement strategies and messaging
C-5	Engage with and support community organizations that enhance community resilience	NCS/ES	
C-6	Ensure that near-term capital improvement projects consider climate change risks	ES/PW	Provide staff training
C-7	Conduct additional studies to identify infrastructure that will be impacted by sea level rise and flooding	ES/PW	In recommended budget; \$40,000
C-8	Inspect, maintain, and upgrade critical infrastructure	ES/PW	Incorporate into Asset Management



Climate Resilience

Actions (continued)		Lead(s)	Implementation Status
C-9	Preserve remaining natural areas and provide more guidance and specifications on incorporating climate science in habitat restoration plans	SuW	Part of Watershed Plans
C-10	Evaluate the development code related to landslide and flooding hazards	PDS	In PDS work plan
C-11	Encourage the leads of existing Puyallup River flood planning work to integrate climate change considerations	ES	Need to identify staff

Next Steps

- Work with other Departments and community partners on action implementation
- Annual progress report due in April 2017
- Sustainable Tacoma Commission formed sub-committees to monitor implementation

