

Tracking Progress Regarding Sustainability and Resiliency 2016-2018

Reporting on R2012-11: Greenhouse Gas Emission Reduction Policy

(Includes mitigating the impacts of the City's activities on the atmosphere and climate)

<i>The following steps shall be taken to reduce greenhouse gas emissions:</i>	<i>Key Policies</i>	<i>Activities 2016-2018</i>	<i>Going Forward</i>
<ul style="list-style-type: none"> • Maximize the reduction of vehicle miles traveled to the extent feasible. [for gas and diesel vehicles in particular] 	<ul style="list-style-type: none"> ✓ Carpooling ✓ Host web-based meetings/calls ✓ Use of webinars for training 	<ul style="list-style-type: none"> ✓ Electronic (tablet) Work Order delivery started 2017 ✓ Van purchased to facilitate carpooling 2017 	<ul style="list-style-type: none"> ✓ Use Asset Management to plan site visits ✓
<ul style="list-style-type: none"> • Endeavour to limit resources required to conduct business, including electricity and structures. 	<ul style="list-style-type: none"> ✓ Conserve electricity ✓ Minimize waste ✓ Keep up with O&M and repairs 	<ul style="list-style-type: none"> ✓ Consolidation of offices into new Civic Center 2015 ✓ Started using Asset Management to track maintenance and replacement schedules ✓ Use of goats for stormwater pond maintenance 2018 ✓ Installed recycling bins at Civic Center and Guy Cole 2018 	<ul style="list-style-type: none"> ✓ Promote smart waste management, esp. food waste and recycling going to landfill (reduce by 10% by 2021) ✓ Set zero-waste goals ✓
<ul style="list-style-type: none"> • Minimize the use of printed materials to the extent feasible. 	<ul style="list-style-type: none"> ✓ Record scanning ✓ Website used to distribute information ✓ Email, social media used for announcements, outreach 	<ul style="list-style-type: none"> ✓ Website upgraded 2018 ✓ Use of invoice cloud for water and sewer bills (# customers: Paperless = 761, AutoPay = 559, Registered = 1,292, & Pay by Text Registered = 98) ✓ Implemented on-line bill pay for many City bills ✓ Project RECMAN 2018 ✓ Use of shredding bins Civic-Center-Wide ✓ Use of tablets for Work Orders ✓ Council Devices allow for non-printable agenda packets 2018 	<ul style="list-style-type: none"> ✓ Continue to increase use of electronic documents ✓

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<ul style="list-style-type: none"> • Promote reduction of energy consumption in buildings and infrastructure to the extent feasible. 	<ul style="list-style-type: none"> ✓ Civic Center is LEED Gold ✓ Conserve electricity is culture 	<ul style="list-style-type: none"> ✓ WRF lights all changed to LED and auto timers; parking lot lights in progress now ✓ WRF digester upgraded to save energy 2017 	<ul style="list-style-type: none"> ✓ Promote relevant policies ✓ Study energy efficiency measures for all facilities ✓
<ul style="list-style-type: none"> • Promote and support the generation and use of alternative energy. 	<ul style="list-style-type: none"> ✓ State goal to expand use of zero-emission vehicles, aiming for 10% of new vehicle purchases by 2016 ✓ State law to fuel publicly owned vehicles, vessels and construction equipment with electricity or biofuel <i>to the extent practicable</i> by June 2018 	<ul style="list-style-type: none"> ✓ Pursuing Level 2 EV charging stations (partnering with PUD) ✓ Exploring partnerships for Level 3 EV charging for Olympic Loop ✓ Pursuing rooftop solar grants 2018 ✓ Speed feedback signs now solar 2017 ✓ Flag pole lights now solar 2018 ✓ Outdoor work lighting now using electric balloon lights vs. generator 	<ul style="list-style-type: none"> ✓ Install rooftop solar ✓ Continue fleet replacement with non-fossil fuel options ✓ Consider propane vehicles ✓
<ul style="list-style-type: none"> • Encourage the reduction of consumption of fossil fuels— associated with equipment procurement to the extent feasible, for example. 	<ul style="list-style-type: none"> ✓ Buy Local is practiced when possible 	<ul style="list-style-type: none"> ✓ Replaced gasoline “mule” vehicle for internal transport at WRF with EV 2017 ✓ Replaced Janitor’s van with EV 2018 ✓ Fleet conversion underway ✓ Truck set up to allow flashers to run off battery vs. idle 	<ul style="list-style-type: none"> ✓
<ul style="list-style-type: none"> • Promote and support development patterns that encourage compact and transit-friendly communities and protect natural resources. 	<ul style="list-style-type: none"> ✓ Transportation Plan 2013 ✓ Comp Plan 2016 	<ul style="list-style-type: none"> ✓ Comp Plan amendments 2018 ✓ Zoning Code amendments 2018 ✓ Business Blitz provided support to downtown and in-City storefronts 2017 ✓ Complete Streets policy underway 2017 	<ul style="list-style-type: none"> ✓ Planned Residential Development (PRD) ordinance ✓

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<ul style="list-style-type: none"> • Incorporate natural drainage features and low-impact development practices to the extent feasible. 	<ul style="list-style-type: none"> ✓ Storm & Surface Water Plan adopted 2016 ✓ Ecology 2012-14 stormwater design manual adopted 2016 	<ul style="list-style-type: none"> ✓ Outreach on state design manual 2016 	<ul style="list-style-type: none"> ✓ Outreach to private facility owners ✓ Facilitate LID for developers ✓
<ul style="list-style-type: none"> • Manage street lighting needs by encouraging lighting standards and using lamps that will assure safe and effective illumination at minimum cost and energy use to the extent feasible. 	<ul style="list-style-type: none"> ✓ Conversion to LED started in 2013 	<ul style="list-style-type: none"> ✓ Street lighting converted to LED (finished in 2016) 	<ul style="list-style-type: none"> ✓
<ul style="list-style-type: none"> • Consider purchasing practices and standards to support reductions in GHG emissions, including preferences for energy-efficient office equipment and the use of recycled material and manufacturers that have implemented green management practices. 	<ul style="list-style-type: none"> ✓ Minimize use of toxics for maintenance of vegetation ✓ Eliminate use of toxics near water bodies 	<ul style="list-style-type: none"> ✓ Asphalt recycled/ reused as base layer in street projects ✓ Backfill from utility trenches screened and reused ✓ All janitor's cleaning products are non-toxic ✓ Liquid road salt (MgCl) used for ice prevention, produces less salt runoff 	<ul style="list-style-type: none"> ✓ Cross-training matrix proposed for field crew improves resiliency ✓
<ul style="list-style-type: none"> • Promote and encourage safe and convenient access for pedestrians and bicyclists. 	<ul style="list-style-type: none"> ✓ Transportation Plan 2013 ✓ Comp Plan 2016 	<ul style="list-style-type: none"> ✓ Bicycle Friendly Community designation 2014, 2018 	<ul style="list-style-type: none"> ✓ Adopt Complete Streets Policy ✓ Build Bell Creek greenway trail ✓
<ul style="list-style-type: none"> • Promote and encourage programs and policies to increase the use of recycled water. 	<ul style="list-style-type: none"> ✓ NPDES permit allows RW use in Bell Creek, Reuse Park, irrigation at WRF, wash water, etc. and biosolids reuse as soil amendments 	<ul style="list-style-type: none"> ✓ Bell Creek augmentation/farm irrigation during 2015 drought ✓ Rapi Infiltration Basin study 2018 ✓ Toilets in new Civic Center ✓ Engaged in RW rule development 2017-18 	<ul style="list-style-type: none"> ✓ Renewing permit in 2019 to include expanded uses during drought ✓

Tracking Progress Regarding Sustainability and Resiliency 2016-2018

Reporting on R2016-16: Improving the City’s Sustainability and Resiliency

(Includes adapting to and preparing for impacts from climate change and emergencies)

City staff is directed to utilize pertinent resources and implement the following strategies:	Key Policies	Activities 2016-2018	Going Forward
1. Ensure the next Comp Plan update includes goals for infrastructure resilience and climate change mitigation in the areas of transportation, solid waste, water/wastewater/stormwater, buildings, parks, clean air, and local food availability	<ul style="list-style-type: none"> ✓ Comp Plan 2016 	<ul style="list-style-type: none"> ✓ Water 2100 internal work group underway ✓ CERB planning grant covered Bell Creek EOA 2017-18 ✓ Human Services Summit included food security 2018 	<ul style="list-style-type: none"> ✓ Comp Plan update due 2022 ✓ Technology adaptation plan ✓
2. Ensure that infrastructure resilience and climate change mitigation are integrated, during regularly-scheduled updates, into all Master Plans, Capital Improvement Program, land use and development plans, Emergency Management Plan, and Hazard Mitigation Plan	<ul style="list-style-type: none"> ✓ Transportation MP 2013 ✓ Water and Sewer MPs 2014 ✓ Stormwater MP 2016 ✓ CIP updated, implemented every year ✓ Parks MP 2015 ✓ Shoreline Mgmt Plan 2012 	<ul style="list-style-type: none"> ✓ NOP Emergency Mgmt group underway ✓ County-wide Hazard Mitigation Plan underway 2018 ✓ Water rights and water supply development projects underway 2017 ✓ Asset management tools utilized starting 2017 ✓ Fencing of wellhead areas 2018 	<ul style="list-style-type: none"> ✓ Emergency Preparedness Plan ✓ Transportation MP due 2019 ✓ Water and Sewer MPs due 2022 ✓ Stormwater MP due 2022 ✓ CIP updated every year ✓ Parks MP Update ✓ Shoreline Master Plan due 2020 ✓
3. Forge partnerships with local and regional stakeholders concerning climate preparedness and in tracking emerging issues	<ul style="list-style-type: none"> ✓ Emergency Management coordination underway ✓ City at table on Salmon Recovery group, Marine Resources group, Dungeness River Management Team, Clean Water Work Group, Strait LIO (Puget Sound water quality) ✓ City at table on Solid Waste Advisory Committee and Joint Solid Waste Advisory Board ✓ City at table on Peninsula RTPO 	<ul style="list-style-type: none"> ✓ Dungeness Off-Channel Reservoir planning group started 2014 ✓ Interlocal agreement with irrigators re maintenance of conveyance system 2016 ✓ Agreement with Clallam County for Carlsborg sewage treatment 2017 	<ul style="list-style-type: none"> ✓ Agreement with JSKT for sewage treatment underway 2018 ✓ Pursue local hospital ✓ ID more partnerships ✓

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<i>City staff is directed to utilize pertinent resources and implement the following strategies:</i>	<i>Key Policies</i>	<i>Activities 2016-2018</i>	<i>Going Forward</i>
4. Build on existing networks and channels to educate City staff and residents on adaptation and resiliency	<ul style="list-style-type: none"> ✓ 7 City Neighborhoods designated 2017 	<ul style="list-style-type: none"> ✓ NOP Emergency Management group started 2017 ✓ Tree City started 2016 ✓ Sequim Bicycle Alliance 2017 ✓ Water Matters column 2015 ✓ League of Women Voters Water Study Group for Dungeness, 2017 ✓ Human Services Summit 2018 	<ul style="list-style-type: none"> ✓ Use website and newsletter ✓ Neighborhood improvement plan ✓ ID more partners ✓
5. Set measurable objectives for mitigation as well as preparedness (for example, a measurement method for emissions is necessary to know whether a reduction has occurred since passing R2012-11)	<ul style="list-style-type: none"> ✓ Existing programs for monitoring water levels, stormwater input to WRF, ✓ Measure water use, drinking water quality, RW generated and used, other 	<ul style="list-style-type: none"> ✓ Qualitative tracking of activities started 2016 ✓ Key Performance Indicators project started 2018 	<ul style="list-style-type: none"> ✓ Start tracking emissions quantitatively ✓
6. Ensure that annual City budgets appropriately support these objectives	<ul style="list-style-type: none"> ✓ Annual budgeting process includes all departments and City Manager ✓ Conservative budgets provide financial resiliency 	<ul style="list-style-type: none"> ✓ Annual Operations budget ✓ Annual Capital budget funds CIP and TIP projects each year 	<ul style="list-style-type: none"> ✓
7. Report to Council every two years, at minimum, on progress in each of the above strategic areas, using cross-referencing among existing plans as a way to avoid inefficiency or duplication of effort		<ul style="list-style-type: none"> ✓ First report Dec. 2018 	<ul style="list-style-type: none"> ✓ Report again in 2020
<p>*In particular, resources from:</p> <ul style="list-style-type: none"> • Municipal Research and Services Center (MRSC) • Association of Washington Cities (AWC) • American Planning Association Washington Chapter (APA-Wa) • American Public Works Association's Center for Sustainability • NOP RC&D's 2015 report on Climate Preparedness • Washington State's 2012 Integrated Climate Response Strategy 		<p>Additional resources identified:</p> <ul style="list-style-type: none"> ✓ C40 Cities ✓ US Climate Resilience Toolkit ✓ ICLEI ✓ Institute for Local Govt (CA) ✓ Climate Mayors ✓ Climate Impacts Group ✓ Tracking GHG emissions [various models] 	