







**R2012-11: Greenhouse Gas Emission Reduction Policy – *Mitigating impacts of the City’s activities on the atmosphere.***





- Maximize the reduction of vehicle miles traveled to the extent feasible. [gas/diesel vehicles]
- Endeavour to limit resources required to conduct business, including electricity and structures.
- Minimize the use of printed materials to the extent feasible.
- Promote reduction of energy consumption in buildings and infrastructure to the extent feasible.
- Promote and support the generation and use of alternative energy.
- Encourage the reduction of consumption of fossil fuels—associated with equipment procurement to the extent feasible, for example.
- Promote and support development patterns that encourage compact and transit-friendly communities and protect natural resources.
- Incorporate natural drainage features and low-impact development practices to the extent feasible.
- 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.
- 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.
- Promote and encourage safe and convenient access for pedestrians and bicyclists.
- Promote and encourage programs and policies to increase the use of recycled water.

<b>Sustainability Best Practices Framework</b>	<b>Key City Policies</b>	<b>New Activities in 2020</b>	<b>Going Forward</b>
 <p>Efficient Transportation</p>	<ul style="list-style-type: none"> <li>✓ Implement 2016 Comp Plan &amp; 2013 Transportation Plan promoting transit &amp; active transport</li> <li>✓ Carpool to meetings</li> <li>✓ Host web-based meetings</li> <li>✓ Use webinars for training</li> <li>✓ Electronic Work Orders + tablets</li> <li>✓ Support Bicycle Friendly Community committee</li> </ul>	<ul style="list-style-type: none"> <li>✓ More online meetings due to lockdown</li> <li>✓ Remote working due to lockdown</li> <li>✓ Ongoing efficiency improvements on site visits</li> <li>✓ W. Fir Street reconstruction: encourages walking/cycling/active transport, and a more efficient east-west driving option with less idle time at stoplights</li> </ul>	<ul style="list-style-type: none"> <li>✓ Continued technology improvements and online meetings &amp; trainings</li> </ul>
 <p>Renewable Energy &amp; Low-Carbon Fuels</p>	<ul style="list-style-type: none"> <li>✓ Expand use of low/zero-emission vehicles to the extent practicable</li> <li>✓ Use solar-powered lighting when possible</li> <li>✓ Truck flashers run off battery</li> <li>✓ Promote EV infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>✓ 50 kW solar installation on Civic Center</li> <li>✓ 2 new hybrid vehicles in PD (40 mpg)</li> <li>✓ 1 new propane truck for Parks (ordered)</li> <li>✓ EV charging stations (Level 2) (with PUD)</li> <li>✓ Outdoor work lighting now using electric balloon lights vs. generator</li> <li>✓ Studied transition to EV for City fleet</li> </ul>	<ul style="list-style-type: none"> <li>✓ Continue fleet replacement with alternative fuel options</li> </ul>

## Annual Report: Tracking Progress on Sustainability and Resiliency

	<ul style="list-style-type: none"> <li>✓ Use reclaimed water to conserve drinking water resources</li> <li>✓ Reduce per-capita drinking water demand 10% (from 2014 to 2024)</li> <li>✓ Reduce system leakage 10% (from 2014 to 2020)</li> <li>✓ Use biosolids as soil amendments</li> </ul>	<ul style="list-style-type: none"> <li>✓ Water rights study</li> <li>✓ Hydrogeology study</li> <li>✓ Various CIP projects: New pump at Port Williams wellfield, New generator at Ranney well, Solar panels at Civic Center</li> <li>✓ W. Fir Street reconstruction: added stormwater management &amp; landscaping</li> </ul>	<ul style="list-style-type: none"> <li>✓ Sewer/Reclaimed Water Master Plan updates 2022</li> <li>✓ Water System Master Plan update 2022</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Civic Center built to be LEED Gold</li> <li>✓ Conserve electricity</li> <li>✓ Minimize waste</li> <li>✓ Keep up with O&amp;M and repairs (vs. replacement)</li> <li>✓ Continue conversion to LED</li> </ul>	<ul style="list-style-type: none"> <li>✓ Asset Management implementation is launched (Cartegraph)</li> <li>✓ Generally, infrastructure replacements conserve energy and resources</li> </ul>	<ul style="list-style-type: none"> <li>✓ Set carbon neutral goals</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Scan vital records; recycle (shred) paper copies</li> <li>✓ Asphalt recycled/ reused as base layer in street projects</li> <li>✓ Backfill from utility trenches screened and reused</li> <li>✓ Primarily use website, email &amp; social media for public communications</li> <li>✓ Rate payers using invoice cloud: Paperless = 761, AutoPay = 559, Registered = 1,292, &amp; Pay by Text Registered = 98</li> </ul>	<ul style="list-style-type: none"> <li>✓ Education about recycling &amp; composting with City newsletters</li> <li>✓ 2 Big Belly recycling compactors installed</li> <li>✓ 9 water bottle filling stations installed</li> <li>✓ County Solid Waste &amp; Recycling Plan Update underway (City participating)</li> <li>✓ Updated online bill-pay is now roughly one-third of all utility customers (Paperless = 1,057, AutoPay = 871, Registered = 1,813, TextPay = 186 registered)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Increase use of electronic documents including permitting</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Buy local when possible</li> <li>✓ Use zero-emission vehicles to reduce contamination in stormwater runoff</li> <li>✓ Minimize use of toxics indoors &amp; in landscaping maintenance (esp. near water bodies)</li> <li>✓ Liquid road salt (MgCl) used for ice prevention, produces less salt runoff</li> </ul>	<ul style="list-style-type: none"> <li>✓ Staff trained in modern snow removal/ management methods</li> </ul>	<ul style="list-style-type: none"> <li>✓ Purchasing plan to minimize disposable plastic</li> </ul>

Annual Report: Tracking Progress on Sustainability and Resiliency

 <p>Land Use &amp; Community Design</p>	<ul style="list-style-type: none"> <li>✓ Implement Comp Plan (2016)</li> <li>✓ Implement Transportation Master Plan (2013)</li> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓ Private stormwater facility inspection program now underway</li> <li>✓ Stormwater capture and infiltration FEMA grant process continues</li> <li>✓ West Fir St. reconstruction improves stormwater management &amp; supports active transportation</li> <li>✓ Development standards adoption will improve consistency</li> </ul>	<ul style="list-style-type: none"> <li>✓ Two stormwater capital facility retrofits in 2020-21</li> <li>✓ Continue seeking grants and loans for upgraded streets and infrastructure</li> </ul>
 <p>Green Building</p>	<ul style="list-style-type: none"> <li>✓ Maintain LEED Gold status of Civic Center</li> <li>✓ 2016 Stormwater Plan requires “low impact development”</li> <li>✓ Codes &amp; Plans require energy &amp; water efficiency</li> </ul>	<ul style="list-style-type: none"> <li>✓ City’s new development engineer position oversees construction, protecting water quality</li> </ul>	<ul style="list-style-type: none"> <li>✓ Study energy efficiency measures for all facilities</li> </ul>
 <p>Open Space &amp; Offsetting Carbon Emissions</p>	<ul style="list-style-type: none"> <li>✓ COGS (Community organic gardens) support</li> <li>✓ “Complete Streets” elements in all street design projects</li> <li>✓ Parks &amp; trails</li> <li>✓ Arbor Day celebrations include planting tree(s)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Landscaping added to W. Fir Street</li> </ul>	<ul style="list-style-type: none"> <li>✓ Bell Creek greenway trail</li> </ul>
 <p>Community &amp; Individual Action</p>	<ul style="list-style-type: none"> <li>✓ LEAN practices to improve efficiency of time, cost, and other resources</li> <li>✓ Strong public communications</li> <li>✓ Engage the community in sustainability efforts</li> <li>✓ Promote green practices</li> <li>✓ Coordinate human services efforts</li> </ul>	<ul style="list-style-type: none"> <li>✓ People’s Project campaign resulted in two sustainability projects</li> <li>✓ NODC climate planning committee</li> </ul>	<ul style="list-style-type: none"> <li>✓ Promote/educate re actions to reduce emissions</li> </ul>

Annual Report: Tracking Progress on Sustainability and Resiliency

**R2016-16: Improving the City’s Sustainability and Resiliency – *Adapting to and preparing for climate change impacts and emergencies.***

<b>FROM RESOLUTION: City staff is directed to utilize pertinent resources* and implement the following strategies:</b>	<b>Key City Policies</b>	<b>New Activities in 2020</b>	<b>Going Forward</b>
1. Ensure the next Comp Plan update includes <b>goals for infrastructure resilience and climate change mitigation</b> in the areas of water/ wastewater/stormwater, transportation, solid waste, buildings, parks, clean air, and local food availability	<ul style="list-style-type: none"> <li>✓ 2016 Comp Plan</li> </ul>	<ul style="list-style-type: none"> <li>✓ Asset management will integrate operations, risk and budget forecasting</li> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓ Comp Plan update 2022</li> <li>✓ Technology adaptation plan</li> <li>✓</li> </ul>
2. Ensure that infrastructure resilience and climate change mitigation are <b>integrated</b> , during regularly-scheduled updates, into all Master Plans, Capital Improvement Program, land use and development plans, Emergency Management Plan, and Hazard Mitigation Plan  <i>[include City operations with this list]</i>	<ul style="list-style-type: none"> <li>✓ 2013 Transportation MP</li> <li>✓ 2014 Water and Sewer MPs</li> <li>✓ 2016 Stormwater MP</li> <li>✓ Annual CIP updates, implemented every year</li> <li>✓ 2015 Parks MP</li> <li>✓ 2012 Shoreline Mgmt Plan</li> </ul>	<ul style="list-style-type: none"> <li>✓ County-wide Hazard Mitigation Plan adopted, approved by FEMA</li> <li>✓ Comprehensive Emergency Mgmt Plan approved by State</li> <li>✓ Water rights and hydrogeologic studies complete</li> </ul>	<ul style="list-style-type: none"> <li>✓ Transportation MP 2022</li> <li>✓ Water and Sewer MPs 2022</li> <li>✓ Stormwater MP 2022</li> <li>✓ Parks MP Update 2020-21</li> <li>✓ SMP 2021</li> </ul>
3. Forge <b>partnerships</b> with local and regional stakeholders concerning climate preparedness and in tracking emerging issues  <i>[include health, childcare, wellness here]</i>	<ul style="list-style-type: none"> <li>✓ Emergency Management coordination</li> <li>✓ City at table on various natural resource management and water quality committees</li> <li>✓ Solid Waste Advisory Committee &amp; Joint Solid Waste Advisory Bd.</li> <li>✓ Peninsula RTPO</li> <li>✓ Dungeness Off-Channel Reservoir County project</li> <li>✓ Carlsborg sewer with County</li> </ul>	<ul style="list-style-type: none"> <li>✓ Agreement with Tribe for Blyn sewer</li> <li>✓ County Solid Waste &amp; Recycling Plan underway</li> <li>✓ Pandemic response coordination</li> <li>✓ NODC climate committee; track City of PA and Clallam County actions</li> <li>✓ Equity and inclusion committees</li> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓ Pursue local hospital</li> <li>✓ Develop more partnerships, track NODC project</li> <li>✓</li> </ul>

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<p>4. Build on existing networks and channels to <b>educate</b> City staff and residents on adaptation and resiliency</p>	<ul style="list-style-type: none"> <li>✓ 7 City Neighborhoods designated 2017</li> <li>✓ Leadership in NOP Emergency Management / Preparedness</li> <li>✓ Outreach via website and social media</li> <li>✓ Outreach via newspapers, radio</li> <li>✓ Internal outreach at staff meetings</li> </ul>	<ul style="list-style-type: none"> <li>✓ Regular COVID-19 outreach, updates</li> <li>✓ Emphasis on maintaining health and wellness</li> <li>✓ Cross-training for field crew</li> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓ Work with local gov't partners</li> </ul>
<p>5. Set <b>measurable objectives</b> 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)</p>	<ul style="list-style-type: none"> <li>✓ Existing monitoring programs for well water levels, stormwater I&amp;I input to WRF</li> <li>✓ Monitor water use, drinking water quality, reclaimed water used</li> <li>✓ Qualitative tracking of progress on R2012-11 and R2016-16</li> <li>✓ Tracking KPIs for each department</li> </ul>	<ul style="list-style-type: none"> <li>✓ NODC grant obtained to assist NOP cities and counties</li> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓ Estimate emissions (or conduct greenhouse gas inventory)</li> <li>✓ Draft climate action plan</li> </ul>
<p>6. Ensure that annual <b>City budgets</b> appropriately support these objectives</p>	<ul style="list-style-type: none"> <li>✓ Annual capital &amp; operational budgeting done by all departments and CM</li> <li>✓ Conservative budgets provide financial resiliency</li> </ul>	<ul style="list-style-type: none"> <li>✓ Various CIP projects implemented</li> </ul>	<ul style="list-style-type: none"> <li>✓</li> </ul>
<p>7. <b>Report</b> 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</p>	<ul style="list-style-type: none"> <li>✓ Council requested annual reporting in 2018</li> </ul>	<ul style="list-style-type: none"> <li>✓ Reporting October 12, 2020</li> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓ Report again in 2021</li> </ul>

## Annual Report: Tracking Progress on Sustainability and Resiliency

**\*In particular, resources from:**

- 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

**Additional resources identified:**

- ✓ US Climate Resilience Toolkit
- ✓ ICLEI, CIRIS for tracking GHG emissions
- ✓ Institute for Local Govt (Calif.) – source of *Sustainability Best Practices Framework*
- ✓ Climate Mayors
- ✓ Climate Impacts Group (UW)
- ✓ NODC