

CITY OF SHORELINE

# 2019

SUSTAINABILITY REPORT

MARCH 2020



# INTRO

**Environmental sustainability:** meeting the needs of the present without compromising the ability of future generations to meet their own needs, while working to regenerate and restore the environment where it has been damaged by past practices.



The City of Shoreline has a long-standing commitment to environmental sustainability. Programs related to waste reduction, green building, pollution prevention, and natural habitat have helped establish Shoreline as a regional leader in sustainability and climate action.

The City took several actions in 2019 to grow and strengthen sustainability initiatives, reduce our environmental footprint, and provide beneficial programs and resources for the community. This report provides an overview of the City's 2019 achievements for five core focus areas—and associated indicators—as outlined in our [Sustainable Shoreline](#) program:

- Climate, Water & Energy;
- Materials, Food & Waste;
- Transportation & Mobility;
- Trees, Parks & Ecosystems; and
- Resilient Communities.

The City recognizes the importance of contributing to sustainability through public projects and programs. These include such things as connecting trails and transit; encouraging green building practices that reduce energy use and costs; and using innovative Low Impact Development stormwater practices that reduce water pollution. However, individual, household, and business choices also play an important role in achieving our community goals.



To learn more about how you can be a part of a Sustainable Shoreline, visit [shorelinewa.gov/sustainability](http://shorelinewa.gov/sustainability). For more information about the sustainability indicators referenced in this report, please see Appendix A.

## SUSTAINABLE SHORELINE



# CLIMATE, WATER & ENERGY

**Our Goal:**  
Reduce greenhouse gas emissions by reducing energy and water use.

INDICATORS		2019 STATUS UPDATE
Achieve zero net municipal greenhouse gas (GHG) emissions by 2030	In Progress	A 2016 GHG emissions inventory showed a 30% reduction in emissions from City operations, and a 2% reduction in communitywide emissions, compared to 2009. GHG emissions will be measured again in 2021, using 2020 data.
Reduce community GHG emissions 50% by 2030 and 80% by 2050, compared to 2009		
Install solar panels to produce 200 kW of electricity by 2030	 <b>1,520 kW of customer solar installed</b>	Per Seattle City Light, a cumulative 1,520 kW of customer solar was installed in Shoreline as of December 31, 2019.
Achieve an average of 10.2 miles per gallon (MPG) for the City's vehicle fleet by 2030	7 MPG	Since 2016, the City's vehicle fleet added Ronald Wastewater maintenance vehicles, Public Works Grounds Maintenance vehicles, and a recreation van. This change resulted in a decrease from 8.7 MPG in 2016 to 7 MPG in 2019.  The City currently has one electric vehicle and four hybrid vehicles in the municipal fleet. The City is committed to replacing gasoline and diesel vehicles with electric or hybrid options as vehicles are due for replacement and heavy-duty vehicle technologies advance.
Increase the number of green residential units in the community to over 700 by 2030	~563 units	In 2015, the City created the Mixed-Use Residential (MUR) zoning districts for the light rail station subareas. The City mandated that any new building in the MURs be constructed at the Built Green 4-Star Level.
Increase square feet of certified green commercial space in Shoreline by 33% by 2030	 <b>904,793 sq ft (35% increase)</b>	Includes two self-storage facilities in Shoreline built to LEED standards.
Keep per capita water use at the 2010 level of 19,000 gallons per resident per year	Not Available	Both Seattle Public Utilities and North City Water District reported that they are no longer able to provide Shoreline-specific community water use data for completing this calculation.

## GREEN BUILDING MANDATE

In 2015, the City created the Mixed-Use Residential (MUR) zoning districts for the light rail station subareas. The City mandated that any new building in the MURs be constructed at the Built Green 4-Star

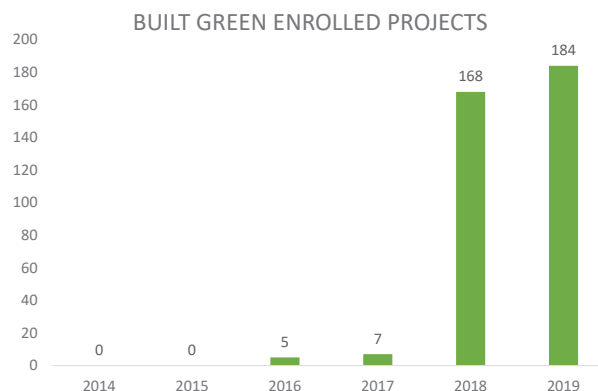
Level. The number of green building units constructed in Shoreline as a result has grown exponentially in recent years. Shoreline currently leads all communities in the Puget Sound region in the number of registered Built Green 4-Star Level projects.



Targa Homes recently completed the first project to take advantage of the Deep Green Incentive Program. The 730-square foot, two-bedroom detached accessory dwelling unit is targeting a Built Green 5-Star rating. Some of the highlights of this project include:

- All electric utilities, including a ductless heat pump for primary heating and cooling, with no gas to home;
- Heat Pump (hybrid) water heater, which is 3.5 times more efficient than a standard electric tank;
- Sustainably sourced materials, including Madrone butcher block counters, and cork flooring;
- Low flow plumbing fixtures;
- Energy Star appliances;
- Over 90% reclaimed lumber framing (aside from plywood) from a local deconstruction, including 100+ year old fir;
- Extensive natural daylight with tall ceilings and large windows; and
- All LED lighting.

**Figure 1: Built Green Enrolled Projects**



SINCE 2018, BUILT GREEN HAS REGISTERED 400 UNITS IN SHORELINE. THIS MEANS A CUMULATIVE:


**ANNUAL SAVINGS**


  
2,434,000  
gallons of water


  
407.2  
MWh of energy

  
\$162,400

**EQUIVALENT TO**

  
146,600  
pounds of  
CO<sup>2</sup> emissions

520  
Nissan Leafs  
driven for a  
year  


  
4320  
solar panels  
produced

467.1  
years of running  
a 12W LED bulb  
continuously  


**DEEP GREEN INCENTIVES**

In April 2017, City Council created the [Deep Green Incentive Program](#) to encourage deeper levels of green building throughout Shoreline. In April 2019, City Council voted to expand the program. Depending upon the level of green building certification achieved, a project can qualify for different exemptions or waivers, including:

- A reduction in or waiver of permit application fees;
- Reduced Transportation Impact Fees;
- Allowed departures from certain Development Code requirements; and
- Expedited permit review without additional fees.

**What does Deep Green mean?**

“Deep Green” refers to an advanced level of green building that requires more stringent standards for energy and water use, stormwater runoff, site development, materials, and indoor air quality than required by the Building Code.

## What is a carbon credit?

A carbon credit allows a company or entity to emit one metric ton of carbon dioxide, or the equivalent of another greenhouse gas, in exchange for reducing or sequestering the same amount elsewhere. This can be done through direct action or through compensating another company or entity for doing the work. Carbon credits are realized when trees take in carbon from the atmosphere and store it in the tree and soil.

### CARBON CREDITS

The Washington Recreation and Park Association awarded Shoreline its 2019 Spotlight Award for Environmental Stewardship for the innovative use of carbon credits to fund environmental restoration at Ballinger Open Space. The City partnered with Mountains-to-Sound Greenway Trust, City Forest Credits, American Forests, and its corporate partner Bank of America, to launch the pilot project in late 2018.



Through this program, the City will remove three acres of invasive plants from Ballinger Open Space and replace them with 2,000 native trees at minimal cost. Bank of America provided \$50,000 in initial funding for the project with a commitment to

maintain the trees for a 25-year period. This ensures carbon credit requirements are met. Maintenance will include annual surveys, weed removal, and replacement plantings. Mountains-to-Sound Greenway Trust will lead the maintenance efforts. To develop the credits, benefits from the restoration and maintenance needed to be quantified. In addition to providing a healthy urban forest for future generations, Ballinger Open Space will also provide the following quantified benefits over the next fifty years:

- Storage of up to 1,000 metric tons of carbon dioxide (CO<sub>2</sub>);
- Reduction of over 62 million liters of storm water, at a savings of approximately \$455,000;
- Energy savings (heating and cooling) of \$73,000;
- Improvements in air quality valued at over \$5,000; and
- Total dollar benefits over 50 years valued at \$533,000.

### King County-Cities Climate Collaboration

Shoreline is one of eighteen partners collaborating with the King County-Cities Climate Collaboration (K4C) to coordinate and enhance the effectiveness of local government climate and sustainability action. K4C county and city staff partner on:

- **OUTREACH**—to develop, refine, and utilize messaging and tools for climate change outreach to engage decision makers, other cities, and the general public;
- **COORDINATION**—to adopt consistent standards, benchmarks, strategies, and overall goals related to responding to climate change;
- **SOLUTIONS**—to share local success stories, challenges, data and products that support and enhance climate mitigation efforts by all partners; and
- **FUNDING AND RESOURCES**—to secure grant funding and other shared resource opportunities to support climate related projects and programs.



## SOLAR LIGHTING

The City made a small addition to its solar portfolio in 2019 with the installation of a modular single occupant public toilet at Echo Lake Park. The public toilet is solar-powered



and not connected to the electric grid in any way. The photovoltaic panels use batteries to store electricity that powers the interior light and the exterior “occupied” light. The batteries also supply power to plumbing to prevent freezing and provide year-round operation. This installation complements a 20.2 kW solar photovoltaic system at City Hall that has been in use since 2009.

## WATER CONSERVATION

The City replaced all toilets and vanities in the Richmond Highlands Recreation Center bathrooms with water saving fixtures in 2019. The existing 3 gallons per flush (GPF) toilets were replaced with 1.6 GPF toilets.

### DID YOU KNOW...

SPU and North City Water District customers can receive rebates for appliances and fixtures that use less water. For more information on saving water and available rebates for toilets, sprinkler systems, kitchen equipment, and more, visit [savingwater.org](http://savingwater.org).



# MATERIALS, FOOD AND WASTE

## Our Goal:

Reduce solid waste and promote sustainable consumption.

INDICATOR	2019 STATUS UPDATE	
Divert 70% of waste generated in the Shoreline community from the landfill	48% diversion rate	Overall diversion rates in Shoreline increased from 44% in 2016 to 48% in 2019. That means that more of the waste generated in our community was recycled or composted instead of going to the landfill.

## WASTE METRICS

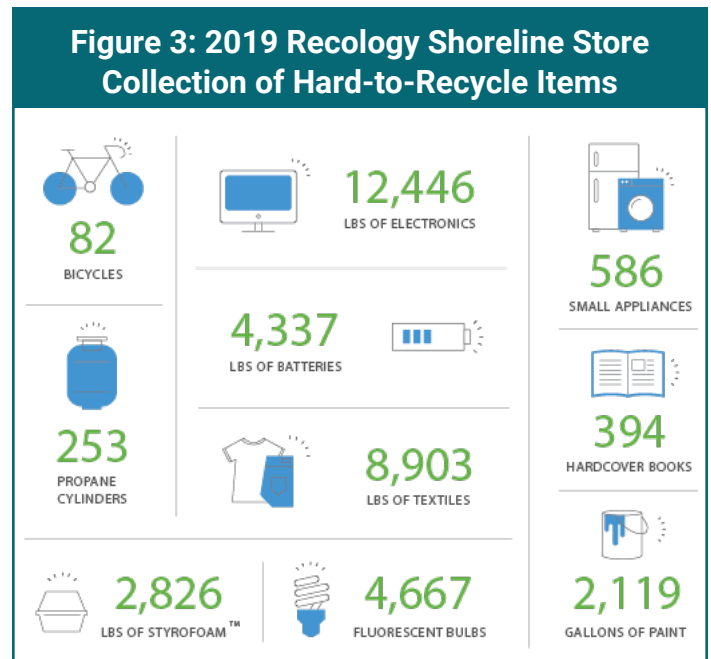
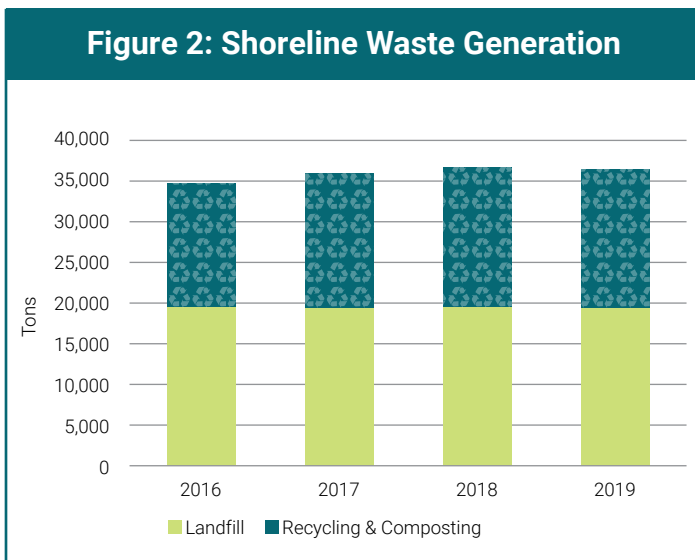
Shoreline residents and businesses generated over 36,755 tons of garbage in 2019, which was 451 tons (1%) less waste compared to 2018. Reducing the amount of waste we create is the most important thing we can do when it comes to waste management. The second most important thing we can do is to make sure items that can be recycled or composted don't go to the landfill. Garbage from our community is sent to the Cedar Hills Regional Landfill. According to current estimates from King County, the existing cells at the Cedar Hills Regional Landfill will be full around 2028.

In 2019, 48% of the waste generated in Shoreline was recycled or composted. Single-family households diverted 64% of their waste from the landfill in 2019,

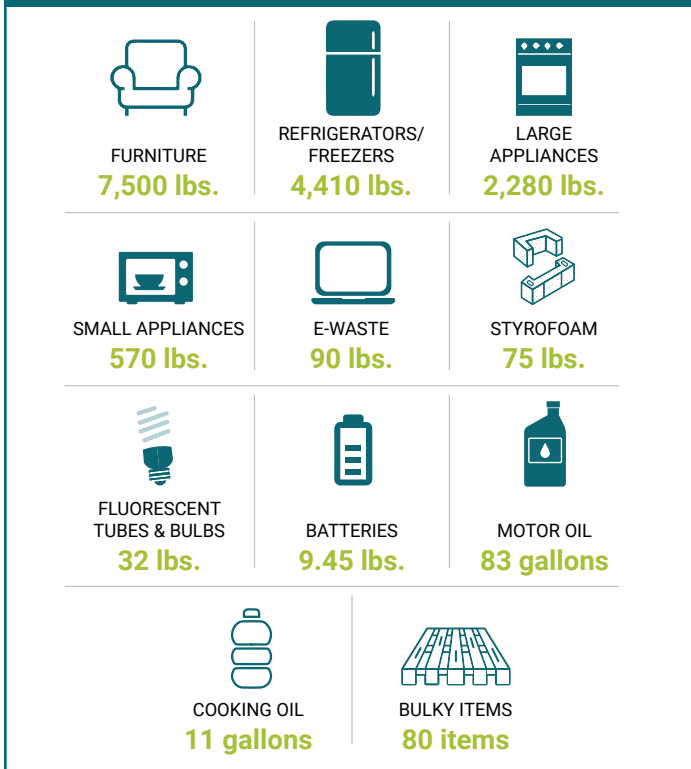
up from 58% in 2016. Multifamily and commercial customers diverted less waste from the landfill in 2019 compared to 2016: multifamily diversion rates decreased from 31% to 25%, and commercial diversion rates decreased from 26% to 24%. Additional effort is needed to achieve the City's goal to divert 70% of citywide waste from the landfill by the end of 2020, and to achieve zero waste of resources by 2030.

## SPECIAL ITEM RECYCLING WITH RECOLOGY

The Recology Shoreline Store accepts hard-to-recycle items that cannot be put into curbside recycle carts, including all of the items shown in Figure 3.



**Figure 4: 2019 Special Item Pick-ups for Recology Customers**  
(amounts collected)



Recology also offers a residential curbside Special Item Recycling program for items that are not accepted inside recycle carts and are hard to properly dispose of otherwise. See Figure 4 for a breakdown of special item pickups in 2019.

### ADDITIONAL RECYCLING SERVICES

Shoreline residents can recycle many items for free at the Shoreline Recycling and Transfer Station, including plastic bags and film, polystyrene foam blocks and coolers, and clothing, shoes and fabrics. Ridwell also started serving all of Shoreline in September 2019 and picks up plastic bags and film, household batteries and light bulbs, clothing, shoes, and Styrofoam for a fee. Collected materials are reused or recycled in partnership with local organizations, non-profits, and specialized recyclers. Learn more about local recycling options at [www.shorelinewa.gov/recycling](http://www.shorelinewa.gov/recycling).

### SKIP THE STRAW PLEDGE

The City partnered with Ocean Conservancy to reduce plastic waste and encourage Shoreline residents and businesses to “Skip the Straw” in 2019. Businesses pledge to only offer straws upon request and/or switch to reusable or compostable straws. Businesses



### PARTICIPATING BUSINESSES:

- Spiro’s Pizza and Pasta: 18411 Aurora Ave N
- Monka Brewing Co.: 17211 15th Ave NE
- Patty Pan Cooperative: 15550 27th Ave NE
- Le’s Pho Thai: 15210 Aurora Ave N
- Jerseys: 1306 N 175th St
- Shake N Go: 15819 Westminster Way N
- Smokin’ Pete’s BBQ: 15009 Aurora Ave N
- Black Pearl: 14602 15th Ave NE
- Wake n’ Bacon BBQ: 1437 NW Richmond Beach Rd
- Ridgecrest Public House: 520 NE 165th St
- Suni’s Pizza & Burgers: 17751 15th Ave NE





that sign the pledge receive a window decal, display materials, and online recognition. Individuals pledge not to use single-use plastic straws for the next 30 days and/or ask their favorite restaurant to serve straws only upon request. From September–December 2019, 11 Shoreline businesses and roughly 70 individuals signed the pledge and acted to reduce plastic waste.

### What did Shoreline save from the landfill with Ridwell?

  
**3,397** LBS  
*Weights as much as 2 cows.*

  
**1,375** CU FT  
*Enough to fill a garbage truck.*

#### LARGEST CATEGORIES BY WEIGHT.....

-  **Plastic film**  
702 lbs • 351 cu. ft.
-  **Threads**  
1,092 lbs • 182 cu. ft.
-  **Electronics**  
410 lbs • 156 cu. ft.
-  **Batteries**  
283 lbs • 71 cu. ft.

Plus many Shoreline households participated in additional donation and recycling opportunities

- |                                      |                                     |                                      |
|--------------------------------------|-------------------------------------|--------------------------------------|
| <b>62</b> Clothes & shoes<br>PICKUPS | <b>15</b> Kitchen & food<br>PICKUPS | <b>27</b> Kids & toys<br>PICKUPS     |
| <b>10</b> Animal care<br>PICKUPS     | <b>20</b> Beauty & home<br>PICKUPS  | <b>66</b> Other recycling<br>PICKUPS |





## BUSINESS WASTE REDUCTION & DIVERSION

The City launched an outreach campaign for local food service establishments in the fall of 2019 to reduce waste and encourage sustainable practices. Four business outreach specialists visited 106 businesses; assisted 10 businesses in signing the Skip the Straw pledge; registered six businesses with the [EnviroStars Green Business program](#); helped three businesses earn EnviroStars recognition; and provided in-language visits for eight business in Spanish, Cantonese and Mandarin. In early 2020, we will develop a summary of the perceived barriers and benefits associated with composting food waste in local restaurants and cafes. The report will include recommendations on strategies and incentives to reduce waste and recycle more, along with examples of sustainable best practices from local food service businesses.

## SHORELINE REPAIR EVENT

King County's Solid Waste Division hosted a free community repair event at the Shoreline Library in July 2019. Approximately 105 people attended, and 14 experienced repair people worked on 84 items, including lamps, chairs, small kitchen appliances, vacuums, headlamps, dog beds, and more. The next [repair fair](#) is currently scheduled for June 24, 2020, from 3:00–6:00 pm at the Shoreline Library.



## HOUSEHOLD BATTERY RECYCLING

The City offers household battery recycling for Shoreline residents at no cost. In 2019, Shoreline residents recycled 9,660 pounds of batteries, keeping them out of the landfill and protecting the environment from hazardous waste. Battery types accepted include alkaline, carbon zinc, lithium, lithium-ion, nickel cadmium, nickel metal-hydride, and small rechargeable lead acid batteries less than two pounds. Find battery recycling locations at [www.shorelinewa.gov/recycling](http://www.shorelinewa.gov/recycling).

## WASTE REDUCTION WITH GROUNDS MAINTENANCE CREW

The City's new Grounds Maintenance Crew has been using burlap bags from local coffee roasters, along with burlap rolls and used cardboard, as a weed barrier within City right-of-way landscapes. This sheet mulching process helps



keep weeds at bay while adding mulch that has been lacking in those landscapes. The Grounds Maintenance Division also purchased used desks, a conference table and file drawers from UW Surplus to outfit their new modular building at a lower financial and environmental cost.

## 2019 SHORELINE FARMERS MARKET

The [Shoreline Farmers Market](#) completed its eighth season in 2019 and continued to support local agriculture and small businesses. The City of Shoreline secured Port of Seattle Economic Development Partnership Program funding for the Shoreline Farmers Market to increase marketing strategies, staff, and program support. Market highlights from 2019 include the following:

- Increased vendor sales 13% over 2018 and attendance by an estimated 9,000 customers;
- Served 1,085 participants in the Power of Produce (PoP) program that gives \$2 in market currency to youth that can be used to purchase fruits and vegetables at the market; and
- Donated 3,523 pounds of produce to Hopelink's Food Access Program and surrounding food banks, which was almost double the pounds donated in 2018.





# Keep recycling—it matters!



Since the 1980s, China has been the primary consumer of the world's paper and plastics. In 2017, China was the single largest recipient of recyclable materials from the United States. In January 2018, China implemented its National Sword policy to address environmental issues and incentivize domestic recycling. The policy placed strict quality requirements on imported recycled materials and banned others outright. The result was an unprecedented disruption to the global recycling market, changing the recycling industry virtually overnight.

Though many in the industry significantly reduced their recycling programs and began sending recyclable materials to landfills, Recology leaned into the challenge. Recology identified alternative overseas markets, bolstered domestic partnerships, and collaborated with municipalities to keep community recycling programs afloat. Recology also invested over \$16 million in recycling infrastructure to improve material sorting and meet the strict quality requirements now demanded of Chinese imports.

## RECYCLE RIGHT!

To ensure the success of the recycling industry, we all must work together. China's new standards mean that we need to keep food, liquids, and non-recyclable materials out of our recycle carts. Non-recyclable materials found in recycle carts are often referred to as "contamination."

As Recology and the recycling industry adapt to the change in end use markets, contamination remains a significant challenge. In 2019, 35% of Shoreline loads had six percent (6%) or more visual contamination. Our goal is to have five percent (5%) or less visual contamination.

## WHERE TO TAKE PLASTIC BAGS

Plastic bags and wrap (i.e. plastic wrapped around cases of bathroom tissue) have long been a problem at recycling facilities and are not accepted in your recycle cart. Plastic bags and wrap get stuck in the machinery gears at recycling facilities and need to be manually removed, sometimes multiple times a day.

Instead of putting plastic bags and wrap in your recycle cart, please check with your local grocery store to see if they offer a take-back program. Many stores offer easy drop off bins near the check-out counter or front entrance, including Central Market, Fred Meyer, QFC and Safeway. Visit [PlasticFilmRecycling.org](http://PlasticFilmRecycling.org) to find drop-off locations, or place materials in the garbage as a last resort.

## 2019 RECOLOGY EDUCATION & OUTREACH

- Visited **188** commercial sites and **61** multifamily properties to provide technical assistance and improve recycling practices.
- Conducted **22** community presentations at various community organizations, such as the Evergreen School and Compass Housing Alliance, to raise awareness of waste reduction and proper recycling habits.
- Introduced new outreach programs and resources to encourage proper recycling, such as quarterly "Where Does It Go" workshops hosted at The Recology Store in Shoreline.
- Received more than **8,500** visitors at the Recology Store in Shoreline.

In support of this effort, the City amended its contract with Recology in 2019 to increase waste disposal fees. The fee for single-family residential customers increased by \$1.35 per month and the fee for commercial and multifamily customers increased by \$2.25 per cubic yard of waste. These increases are being used to help pay for additional costs associated with processing and marketing recyclable materials and to provide additional education and outreach programs designed to reduce recycling contamination.

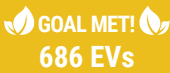
The 2019 contract amendment also created a fee specifically for the collection of contaminated recycle containers as garbage for multifamily (i.e. apartment and condo complexes with more than four units) and commercial customers. In the spring of 2020, Recology staff will visit these customers to visually review materials in each recycle container. If a recycle container has less than 5% visible contamination, no action is required. However, if a recycle container contains more than 5% visible contamination, Recology will place a notice on the container and contact the property owner through a phone call and letter. The intent of this effort is to help educate the customer and reduce contamination. If a recycle container is found to have more than 5% visible contamination after three follow-up visits, a fee of \$25.00 per cubic yard (or per cart) may be assessed to dispose of materials in the recycle container as garbage.

## SCHEDULE A FREE, 30-MINUTE PRESENTATION FOR YOUR STAFF OR TENANTS!

Recology offers a variety of free resources, including on-site technical assistance, signage in various languages, and interactive recycling trainings to help reduce the amount of contamination in recycle containers. Learn more at [recology.com/shoreline](http://recology.com/shoreline).

# TRANSPORTATION & MOBILITY

**Our Goal:**  
Develop low-carbon, safe, and convenient transportation options.

INDICATORS		2019 STATUS UPDATE
Increase walkability for our community by 2030	48 out of 100 WalkScore™	A WalkScore is based on the number of shops and services within a 5-minute walk to residences, transit service, and bikeability. Shoreline's WalkScore did not change from 2016 to 2019, but is poised to improve with the opening of two light rail stations in 2024 and future high-density residential and mixed-use developments.
Add 14 miles of new sidewalks by 2030, expanding the network to 92 miles	4,225 linear feet (<1 mile) of sidewalk added	Less than one mile of new sidewalk was added in 2019, per the City's GIS database. However, in 2018, Shoreline voters approved a sales tax increase to fund the construction of twelve new sidewalk projects over the next 20 years.
Add 20 miles of dedicated bike lanes and paths by 2030, for a total of 40 miles	8.4 miles added	From 2017-2019, the City added approximately 8.4 miles of dedicated bike lanes and paths, contributing to an estimated 20.8 miles of dedicated bike lanes and paths in our community.
Increase the number of Shoreline residents who bike to work to reach 500 bike commuters by 2030	280 bike commuters	Per the 2017 American Communities Survey (ACS) data, as no data was available for 2018 or 2019.
Add 21 public electric vehicle (EV) charging stations in the community by 2030	19 EV charging stations	A total of 21 electric vehicle chargers were identified on maps from PlugShare and AFDC in 2019; however, two included notes regarding restricted access. This total includes six public EV chargers available at City Hall.
Increase the number of registered EVs in the community to 450 EVs by 2030	 686 EVs	As of December 2019, there were 686 EVs registered in Shoreline, representing approximately 1.5% of total Shoreline vehicles. The 2019 total for Shoreline includes 497 battery electric vehicles and 189 plug-in hybrid electric vehicles.
Have 36% of residents living within a 10-minute walk of a light rail station by 2035	Not Available	These indicators will be reported on when the light rail stations are open.
Achieve over 13,000 light rail station boardings per day by 2035		

## BICYCLE FRIENDLY COMMUNITY DESIGNATION

The League of American Bicyclists recognized Shoreline with a Bronze [Bicycle Friendly Community](#)<sup>SM</sup> award in late 2018. The City was recognized for a commitment to improving bicycling conditions through investment in bicycling promotion, education programs, infrastructure, and pro-bicycling policies. As part of that commitment, a free community screening

of MOTHERLOAD, a documentary film about cargo bicycles, was offered in December 2019. The City encouraged attendees to bike to the event by offering bicycle parking in the lobby and hosted a panel discussion with four local cargo bike commuters. The panel and audience identified the following high priority improvements needed in Shoreline to encourage people of all ages and abilities to bicycle:



- More secure parking for all types of bicycle throughout the city;
- Safe routes to schools;
- Complete gaps in the bicycle network;
- Increased separation between bicycles and cars; and
- More education, encouragement, and enforcement of bicycling and driving safety.

## BICYCLE TRAILS & SIDEWALKS

Bicycle trails and sidewalks offer alternatives to traveling by car, along with recreational opportunities that support healthy lifestyles. In 2016, the City of Shoreline collaborated with the City of Lake Forest Park to better connect the Interurban Trail and Burke-Gilman Trail. From 2017-2019, the City added approximately 8.4 miles of dedicated bike lanes and paths. An additional 8.7 miles of sharrows (road markings used to indicate a shared lane environment for bicycles and automobiles) and signed bike routes were also completed during that time.

The City's Complete Streets ordinance requires all city roads be designed, operated, and maintained to enable safe and convenient access and travel for all users, including bicyclists. Since 2016, the Washington State Transportation Improvement Board has awarded the City with \$750,000 in Complete Streets grants to fill gaps in our pedestrian and bicycle network. In 2018, Shoreline voters also approved a



sales tax increase to fund the construction of twelve new sidewalk projects over the next 20 years.

## LINK LIGHT RAIL IS COMING TO SHORELINE

Work on the Link Light Rail Extension through Shoreline became very visible in 2019, due in part to the removal of 1,173 trees along the east side of I-5. Where appropriate, "snags" were left to enhance wildlife habitat. To ensure that no unnecessary trees were removed, the City retained the services of a certified arborist to review plans and inspect the construction areas during this period. Inspections were also carried out to ensure that no trees were removed where birds were actively nesting.

Over 4,100 trees, the majority of which will be native species, will be planted as replacements. Sound Transit has partnered with the Washington State Department of Transportation to extend the maintenance period for new plantings within the I-5 corridor to an impressive 13 years. This will help ensure survival rates of the replacement trees and understory plantings. After the trees are established, they will provide several environmental benefits, including carbon sequestration, soil quality improvement, wildlife habitat, air filtration, and lower air temperatures during the summer months.


## RONALD BOG PARK UPDATES

As part of Sound Transit's work in Shoreline, extensive wetland mitigation took place at Ronald Bog Park in 2019. The western wetland areas were re-established; wetland areas south of the arboretum were enhanced; invasive species were removed; and new trees, shrubs and groundcovers (native species where possible) were planted. Additionally, new ADA-accessible trails with interpretive signs were constructed for the existing shelter and around the arboretum. The project is scheduled for completion in early 2020, at which time the Park will be reopened to the public.



# TREES, PARKS & ECOSYSTEMS

**Our Goal:**  
Protect local and regional natural resources and restore ecosystem health.

INDICATORS		2019 STATUS UPDATE
Total number of trees planted in City parks (plant 1 million trees in King County by 2020)	 <b>4,218 trees planted</b>	Includes trees planted via City stewardship programs, staff and the Mountains to Sound Greenway Trust from 2017-2019, and trees planted by Sound Transit at Ronald Bog Park in 2019. Data from the City of Shoreline is included in King County totals for measuring a regional goal to plant 1 million trees by 2020. Per County staff, a celebration is planned in April 2020 to celebrate the planting of the ceremonial one millionth tree.
Add five new acres of parkland by 2023, compared to 475 acres in 2016	475 acres	While the original indicator called for the City to increase acres of parkland by 613 acres by 2031, the Parks, Recreation & Cultural Services Department identified an updated goal as noted here.  No parkland acres have been added since 2016, when 475 acres of parkland were counted. However, the City is applying for grants and negotiating with property owners to achieve that 2023 target.
Achieve a water quality index score of 80 or better for all streams by 2030	Scores ranged from 15-77	The average Water Quality Index Score across all stream sites increased from 40.4 in 2008 to 56.6 in 2019. The Water Quality Index Score is a unitless number ranging from 1 to 100; a higher number is indicative of better water quality in relation to Washington's Water Quality Standards.
Install 200,000 square feet of rain gardens and other natural drainage systems to reduce polluted runoff by 2030	141,304 sq ft	From 2017-2019, the City installed 141,304 sq ft of natural drainage systems, also known as "low-impact development" features.

## SALMON-SAFE CERTIFICATION



In April 2019, the City was recognized as the first [Salmon-Safe](#) Certified City in Washington State, and only the second certified city in the nation after Portland, Oregon. Salmon-Safe Certification recognizes Shoreline's regional leadership in preventing water pollution and improving the health of Puget Sound. Salmon-Safe

certification also requires the City to further reduce pollutants and pesticide use; improve erosion control; conserve water; and install rain gardens and other "green infrastructure" to keep stormwater runoff clean.

## YOU CAN BE SALMON-SAFE TOO!

Small, everyday actions can make a big difference when it comes to preventing water pollution! Help keep our streams, lakes and Puget Sound clean and safe for salmon.

- Bag pet waste and throw it in the trash
- Reduce pesticide and fertilizer use in your yard
- Fix vehicle leaks as soon as you notice them
- Use a commercial car wash
- Install a rain garden with the City's [Soak It Up rebate program](#)

## GREEN SHORELINE PARTNERSHIP



In March 2019, the City and Forterra launched the Green Shoreline Partnership. The Green Shoreline Partnership brings together thousands of community volunteers, local

nonprofits, and businesses to create a sustainable network of healthy forested parks and natural areas in Shoreline. The goal is to enhance forest benefits and improve quality of life and connections to nature for Shoreline residents. It also galvanizes an informed and active community of stewards and ensures long-term sustainable funding and community support of forest restoration efforts.

The Green Shoreline Partnership is part of the Green City Partnerships program. The [Green City Partnerships](#) program unites cities across Puget Sound in developing community-based stewardship programs to care for the valuable forests and natural areas in our urban environments. On-the-ground forest restoration projects and volunteer recruitment efforts will be funded in part through a 2019-2020 grant from The Nature Conservancy.

The first-ever Green Shoreline Day took place in November 2019. Volunteers helped plant the future forest of Shoreline and care for our City's parks at Hamlin Park, Richmond Beach Saltwater Park, and Twin Ponds Park. The Green City Partnership has already restored almost two acres of degraded urban forest and installed over 2,500 native shrubs and trees.

## VEGETATION MANAGEMENT WITH GOATS

The City employed goats from Earthcraft Services to help manage vegetation at six stormwater facilities in the summer of 2019. The goats effectively remove blackberry and weedy plant



species from steep slopes that are difficult to access and maintain. Using goats allows for a lower environmental impact compared to herbicides or gas-powered brush removal equipment while keeping costs low. This eco-friendly approach also provides local grasses and indigenous plants an opportunity to survive.

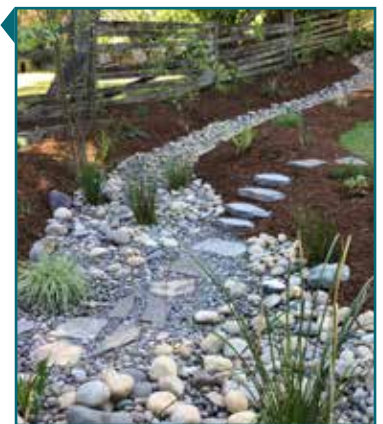


## WHALE TRAIL SIGN AT RICHMOND BEACH SALTWATER PARK

The Whale Trail, Washington Environmental Council, and the City hosted an "Orca Celebration and Whale Trail Sign Dedication" in June 2019 to promote awareness and stewardship of endangered southern resident orcas. A new interpretive panel focused on marine mammals is now available at Richmond Beach Saltwater Park, which is one of more than 100 sites along the [Whale Trail](#), a network of marine mammal viewing locations that spans from California to British Columbia.

## SOAK IT UP REBATE PROGRAM

In 2019, eight Shoreline homeowners installed rain gardens and native vegetation through the Soak it Up Rebate Program. Participants received an average of \$1,906 for projects to help improve drainage and protect clean water in our streams, lakes, and Puget Sound. Since 2013, 49 properties have received a Soak it Up Rebate, helping to reduce and clean stormwater runoff from over 36,909 square feet of hard surfaces around the city. Rebates are provided on a first-come, first served basis each year.



# RESILIENT COMMUNITIES

**Our Goal:**  
Promote community health and prosperity for all.

INDICATORS		2019 STATUS UPDATE
Add nearly 2,000 additional affordable housing units in Shoreline by 2031	278 units added	The Property Tax Exemption (PTE) program is the City's main affordable housing program. Since the first PTE project in 2007, eight buildings with a total of 820 units have enrolled in PTE programs, producing 278 affordable units.
Create an estimated 7,200 new jobs in Shoreline by 2035	1,076 new jobs added through 2018	Data for 2018 from the Puget Sound Regional Council showed that Shoreline had 17,037 total jobs, for an increase of 1,076 jobs since 2016. Data for 2019 was not available at the time of publication for this report.

## CLIMATE IMPACTS & RESILIENCY STUDY

The City's 2018 Surface Water Master Plan recommended that the City investigate how climate change could impact the surface water system (i.e. the system that collects rainfall and transports it to local waterways). The most significant climate change impacts projected for the Pacific Northwest include the following:

- Temperature—increase in average and minimum temperatures, and the frequency and duration of extreme heat events;
- Precipitation—wetter winters, drier summers, and more extreme precipitation events;

- Mountain snowpack—less snowpack and shifts in the timing of stream flow; and
- Sea Level Rise—increase in sea level.

The City is currently conducting a Climate Impacts & Resiliency Study, which is expected to conclude in mid-2020. The goal of the study is to identify climate change impacts and areas of vulnerability for our community, with a special focus on the City's stormwater system. The study will also provide information to help guide capital improvement projects and inform future climate action and adaptation plans for the Shoreline community.



## ENVIROSTARS GREEN BUSINESS PROGRAM

Twelve Shoreline businesses achieved recognition through the EnviroStars Green Business Program in 2018 and 2019. [EnviroStars](#) is a free, statewide program that recognizes businesses for their efforts to protect the environment and employee health and safety. Businesses can apply for recognition through an online hub where they can also access local resources, rebates, and incentives. To earn recognition, a business must complete a sustainable practices checklist, which covers water and energy use; solid waste reduction; pollution prevention; transportation; and community actions. Businesses can earn three levels of recognition —Partner, Leader, and Champion—based on the number of sustainable actions taken.

### PARTNER BUSINESSES

- Black Pearl Chinese
- Cats Exclusive Veterinary Center
- 915ers
- Cogent Environmental Consulting LLC
- Colonial Gardens

### LEADER BUSINESSES

- Smokin' Pete's BBQ
- Sound Bookkeepers

### CHAMPION BUSINESSES

- Jesse Boyett DDS
- Meadowbrook Apartments
- Ballinger Commons Apartment Community
- Maiden Voyage Preschool LLC
- Ridgecrest Public House





## 2019 EARTH DAY EVERY DAY EVENT

The City's annual Earth Day Every Day event took place on April 27, 2019 at Central Market. Approximately 729 attendees participated in the event. Local environmental organizations, utilities, and businesses shared information on solar energy; pollution prevention; natural yard care; recycling and waste reduction; gardening; City environmental programs; and more.

Three different giveaway packages were offered to attendees in exchange for a commitment to complete a survey evaluating the product and event. Each giveaway package was delivered in a reusable cloth shopping bag. The giveaway packages were:

- Natural Yard Care, which included organic soil amendments;
- Pet Care, with products to encourage proper disposal of pet waste; and
- Sustainable Living, which included silicone snack pouches, bamboo utensils, and cloth produce bags designed to reduce waste.

## ENVIRONMENTAL MINI-GRANTS

The City offers grants up to \$5,000 per application to individuals, community groups, and business owners for projects that enhance the environment and promote environmental stewardship. Since 2007, the [Environmental Mini-Grant](#) program has awarded over \$190,000 for 53 grants. The City funded four projects in 2019.



- **16th Northwest Solar Fest Renewable Energy & Sustainable Living Fair—\$5,000:** This event brought the local community together to learn about ways to live a more sustainable life through workshops, conversations, and exhibits that share information, products and services.
- **Climate and Ecosystem Education—\$4,998:** A total of seven 4th and 5th grade classes at Highland Terrace, Echo Lake, and Meridian Park Elementary Schools received interactive, hands-on ecosystem and climate change lessons that demonstrate environmental/scientific concepts, as well as social responsibility and stewardship.



- **Aquarium Refrigeration Units—\$1,568:** Two refrigeration units were installed in aquariums at Briarcrest and Ridgecrest Elementary Schools to raise salmon eggs that are released in the Lake Washington watershed each year as part of the "Salmon in the Schools" project supported by the Shoreline School District and local PTAs.

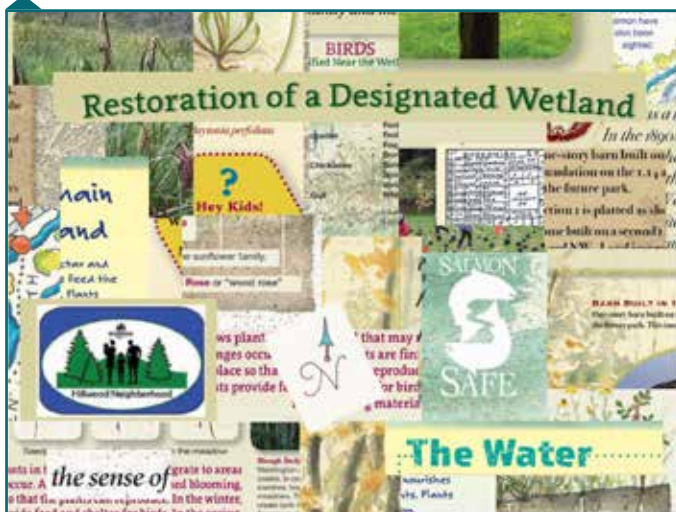


- **Diggin' Shoreline's Annual Community Film Event—\$981:** This annual event focused on “Gardening for Health and Well-Being” with guest speaker Zsofia Pasztor from Farmer Frog, interactive exhibits, video shorts, and child-friendly activities.

## NEIGHBORHOOD MINI-GRANTS

Two projects funded by the [Neighborhood Mini-Grants](#) program in 2019 also had an environmental focus.

- **Hillwood Park Signage:** The Hillwood Community Network (HCN) has led an effort to restore the natural area of Hillwood Park over the past several years. With restoration complete, HCN created and installed three informational signs focused on the history of the land and the natural systems in the wetland meadow. These signs provide an opportunity for all park visitors, including students from Einstein Middle/Junior High School, to learn about multiple aspects of the park.



- **Densmore Pathway Watershed Art Trail, Phase 1:** For the past several years, Echo Lake Neighborhood Association (ELNA) has continued to maintain and improve the Densmore Pathway, located just north of the 185th Street Corridor. With this project, ELNA volunteers installed metal sculptures of salmon, native plantings, and pollinator garden signage to help the community identify with the concept of water flowing through streams and lakes and into Puget Sound, all of which are natural salmon habitats.

This appendix provides additional information on the sustainability indicators referenced in the 2019 Sustainability Report. These indicators were developed by City staff and a consultant in 2018. The majority of indicators reference a baseline year of 2016, although a few have earlier baseline years as noted below. The 2019 status update refers to data available as of December 31, 2019 unless otherwise indicated. Sometimes that data refers to an update for a single year, while other times it refers to an update across a range of years, as noted in the tables below. City staff will continue to review and improve the data collection process for these indicators, which will likely be updated in the next few years.

## CLIMATE, WATER & ENERGY

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Achieve zero net municipal greenhouse gas (GHG) emissions by 2030	30% reduction measured from 2009–2016	Not available for 2019. GHG emissions will be measured again for both indicators in 2021.
Reduce community GHG emissions 50% by 2030 and 80% by 2050, compared to 2009	2% reduction measured from 2009–2016	

**DETAILS:** GHG emissions are calculated using a number of data sources, including community electricity, natural gas, and heating oil use; vehicle miles traveled; and solid waste generation. Emissions are typically measured every five years as it takes a significant amount of staff time to gather and analyze data. Zero net municipal GHG emissions refers to our desire to reduce or offset all sources of carbon emissions measured in our GHG emissions inventory for City operations. This is also sometimes referred to as a desire to be carbon neutral. One way to offset GHG emissions is to plant trees that absorb excess carbon dioxide and store that carbon while releasing oxygen back into the air.


GHG emissions for both City operations and the Shoreline community will be measured again in 2021, using 2020 data.

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Achieve an average of 10.2 miles per gallon (MPG) for the City’s vehicle fleet by 2030	8.7 MPG	7 MPG


**DETAILS:** Data provided by City staff in the Administrative Services Department. Miles were captured from CityWorks and fuel use was captured predominately from King County Fleet (which provides a fueling station for City vehicles), with some fuel use data from the Shoreline School District (another fueling site for City vehicles). Other fuel use from employee travel reports or other transactions is not captured in this calculation. This calculation also does not include MPG calculations for equipment, fuel cans, or larger vehicles (such as street sweepers and Vactor trucks), electric vehicles or the police transport van that was historically in the City fleet.

The average miles per gallon for the City’s vehicle fleet decreased from 8.7 MPG in 2016 to 7 MPG in 2019. This is primarily due to a change in the City’s vehicle fleet beginning in 2017 with the addition of Ronald Wastewater maintenance vehicles, Public Works Grounds Maintenance vehicles, and a recreation van. The City currently has one electric vehicle and four hybrid vehicles. The City is committed to replacing gasoline and diesel vehicles with electric or hybrid options as vehicles are due for replacement and heavy-duty vehicle technologies advance.

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Increase the number of green residential units in the community to over 700 by 2030	~260 units	~563 units
<p><b>DETAILS:</b> To count as a green unit, a project must be registered with a certification agency, such as Built Green. Data for the 2016 baseline was provided by Built Green Program staff. Data for the 2019 status update was obtained from City's TRAKIt system and includes the total number of units added from 2016-2019.</p> <p>In 2015, the City created the Mixed-Use Residential (MUR) zoning districts for the light rail station subareas. The City mandated that any new building in the MURs be constructed at the Built Green 4-Star Level. As a result, the number of green building units permitted in Shoreline has grown exponentially in recent years.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Increase square feet of certified green commercial space in Shoreline by 33% by 2030	668,000 sq ft	904,793 sq ft (35% increase)
 <b>GOAL MET!</b>		
<p><b>DETAILS:</b> It is unclear how the 2016 baseline data was developed, but it appears to include commercial properties that received LEED certification. It is not clear how that data was obtained. Data for the 2019 status update was obtained from the City's TRAKIt system and includes two self-storage facilities in Shoreline built to LEED standards.</p>		

INDICATOR	2010 BASELINE	2019 STATUS UPDATE
Keep per capita water use at the 2010 level of 19,000 gallons per resident per year	19,000 gallons/resident/year	Not available for 2019
<p><b>DETAILS:</b> Information on water use by sector (residential, commercial, etc.) in Shoreline was previously provided by Seattle Public Utilities and North City Water District to establish the 2010 baseline. However, both utilities informed City staff that they are no longer able to provide Shoreline-specific water use data by sector for completing this calculation. Thus, this indicator likely will not be evaluated on an ongoing basis.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Install solar panels to produce 200 kW of electricity by 2030	157 kW	1,520 kW of customer solar installed
 <b>GOAL MET!</b>		
<p><b>DETAILS:</b> It is unclear how 2016 baseline data was obtained. However, the 2016 baseline appears to include data for 16 installations completed as part of the 2016 Solarize Shoreline campaign that installed 117 kW of solar capacity, and a 20.2 kW solar installation at City Hall.</p> <p>Seattle City Light provides electricity for the Shoreline community, and all properties that install solar photovoltaic panels must register their project with Seattle City Light. Per Seattle City Light, a cumulative 1,520 kW, or approximately 1.5 MW, of customer solar had been installed in Shoreline as of December 31, 2019. That includes approximately 805 kW of solar installations since January 1, 2017.</p>		

## MATERIALS, FOOD & WASTE

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Divert 70% of waste generated in the Shoreline community from the landfill	<b>44% overall diversion rate</b> 58% Single-Family 31% Multifamily 26% Commercial	<b>48% overall diversion rate</b> 64% Single-Family 25% Multifamily 24% Commercial
<p><b>DETAILS:</b> Information on diversion rates, i.e. the percentage of waste generated by all Recology customers in the City of Shoreline that is recycled or composted instead of going to the landfill, is provided by Recology. Diversion rates for single-family households increased from 58% in 2016 to 64% in 2019. However, diversion rates for both multifamily and commercial customers decreased: multifamily diversion rates decreased from 31% in 2016 to 25% in 2019, and commercial diversion rates decreased from 26% in 2016 to 24% in 2019.</p> <p>Garbage collected by Recology in Shoreline is taken to the Cedar Hills Regional Landfill. According to population and economic projections, and current recycling rates for King County, the existing cells at the Cedar Hills Regional Landfill will be full around 2028.</p>		

## TRANSPORTATION & MOBILITY

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Increase walkability for our community by 2030	48 out of 100 WalkScore™	48 out of 100 WalkScore™
<p><b>DETAILS:</b> A WalkScore is based on the number of shops and services within a 5-minute walk to residences; transit service; and bikeability. The score is calculated by gathering data on restaurant/bar/coffee shop locations, transit services, and bicycle infrastructure. Learn more at <a href="http://www.walkscore.com/WA/Shoreline">www.walkscore.com/WA/Shoreline</a>.</p> <p>Currently, most errands in Shoreline require a car. Shoreline’s WalkScore is poised to improve with the opening of two light rail stations in 2024 with frequent and reliable bus service to/from the light rails stations, and the anticipation of more dense residential and mixed-use developments in the 145th and 185th St Station Subareas, along Aurora Avenue, and in Shoreline Place.</p>		


INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Add 14 miles of new sidewalks by 2030, expanding the network to 92 miles	78 miles	4,225 linear feet (<1 mile) of sidewalk added in 2019
<p><b>DETAILS:</b> There are known gaps in the GIS database for sidewalk data and it is unclear how 2016 baseline data was obtained. However, a 2017 Council Report shared the following: “Approximately 78 miles of the Pedestrian System Plan are built. This includes 54 miles (69%) of sidewalk installed before the City incorporated. After incorporation, the City completed 17.6 miles (22%) with Capital Improvement Plan funds, and 6.7 miles (9%) were completed by private development. Approximately 75 miles remain to be constructed.”</p> <p>In 2019, data was evaluated by looking at miles of sidewalk added in the City’s GIS database. This data showed that 4,225 linear feet (&lt;1 mile) of new sidewalk was added in 2019. Sidewalk data from GIS was not available for 2017-2018. The City is administering an aerial photo project in early 2020, which will provide updated information on impervious surfaces—including sidewalks—in our community. The data obtained from this project may significantly alter our recorded miles of sidewalk.</p>		



INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Add 20 miles of dedicated bike lanes and paths by 2030, for a total of 40 miles	20 miles	28.4 total miles (8.4 miles added)
<p><b>DETAILS:</b> It is unclear how 2016 baseline data was obtained. Data for 2019 includes an estimated 8.4 miles of dedicated bike lanes and paths completed from 2017-2019. This brings our total miles of dedicated bike lanes and paths in our community to approximately 28.4 miles.</p> <p>An additional 8.7 miles of sharrows (road markings used to indicate a shared lane environment for bicycles and automobiles), and signed bicycle routes were also completed from 2017-2019. All data was provided by staff from the Public Works Department.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Increase the number of Shoreline residents who bike to work to reach 500 bike commuters by 2030	339 bike commuters	280 bike commuters (2017 data)
<p><b>DETAILS:</b> It is unclear how 2016 baseline data was obtained, although staff thinks it likely came from the American Communities Survey (ACS). The 2019 status update refers to data reported in the 2017 ACS for Shoreline as no bike commuter data was available from the ACS for 2018 or 2019.</p> <p>The 2020 ACS data should provide an update on the percentage of bicycle commuters. However, there are some challenges with continuing to refer to this data source as responses for the question “How did you get to work last week?” only allows participants to select one answer, and do not account for mixed trips (i.e., where someone bikes to connect to transit). Thus, the City may consider gathering site specific counts for popular bike routes via manual counts, tube counts, and/or automated bike counters in the future.</p>		


INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Add 21 public electric vehicle (EV) charging stations in the community by 2030	9 charging stations	19 charging stations
<p><b>DETAILS:</b> It is unclear how 2016 baseline data was obtained. Data for 2019 shows that approximately 10 public EV charging stations were added since 2016. This data was obtained from two sources: <a href="#">PlugShare</a> and the <a href="#">Alternative Fuels Data Center (AFDC)</a>. A total of 21 electric vehicle chargers were identified on maps from PlugShare and AFDC; however, two included notes regarding restricted access. This total includes six public EV chargers available at City Hall.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Increase the number of registered EVs in the community to 450 EVs by 2030	180 EVs	686 EVs
		
<p><b>DETAILS:</b> Data for the 2016 baseline appears to have been obtained from <a href="#">Data.WA.gov</a>. Data for the 2019 status update was also obtained from Data.WA.gov, which provides a summary of electric vehicles (EV) registrations via the Washington State Department of Licensing.</p> <p>The number of EVs registered has grown significantly in recent years. As of December 2019, there were 686 EVs registered in Shoreline, including 497 battery electric vehicles and 189 plug-in hybrid electric vehicles. Registered EVs represented approximately 1.5% of total Shoreline vehicles in 2019 (as reported by the Washington State Department of Licensing with 46,461 vehicles registered in Shoreline in 2018; 2019 data was still being analyzed at the time this report was developed).</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Have 36% of residents living within a 10-minute walk of a light rail station by 2035	NA	Not available for 2019
Achieve over 13,000 light rail station boardings per day by 2035	NA	Not available for 2019

**DETAILS:** These indicators will be reported on when the light rail stations are open.

## TREES, PARKS & ECOSYSTEMS

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Total number of trees planted in City parks (towards a regional goal to plant 1 million trees in King County by 2020)	NA	4,218 trees planted
		
<p><b>DETAILS:</b> Data for the 2019 status update includes trees planted via City stewardship programs, staff and the Mountains to Sound Greenway Trust from 2017-2019, and trees planted by Sound Transit at Ronald Bog Park in 2019. This total includes 228 trees planted via City stewardship programs in 2019 and over 3,600 trees planted at Ronald Bog Park in 2019.</p> <p>Data from the City of Shoreline is included in King County totals for measuring a regional goal to plant 1 million trees by 2020. Per County staff, a celebration is planned in April 2020 to celebrate the planting of the ceremonial one millionth tree. Thus, this Countywide goal is noted as being met for this report. Official County totals for this goal through the end of 2019 should be available in the spring of 2020. Learn more at <a href="https://www.kingcounty.gov/services/environment/stewardship/one-million-trees.aspx">https://www.kingcounty.gov/services/environment/stewardship/one-million-trees.aspx</a>.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Add five acres of new parkland by 2023	475 acres	475 acres
<p><b>DETAILS:</b> While the original indicator called for the City to increase parkland by 613 acres by 2031, the Parks, Recreation &amp; Cultural Services Department has identified an updated goal to add five acres of new parkland by 2023. No parkland acres have been added since 2016, when the City established a baseline of 475 acres. However, the City is applying for grants and negotiating with property owners to achieve the updated 2023 target.</p>		

INDICATOR	2008 BASELINE	2019 STATUS UPDATE
Achieve a water quality index score of 80 or better for all streams by 2030	Scores ranged from 26–60, with an average of 40.4	Scores ranged from 15–77, with an average of 56.6
<p><b>DETAILS:</b> The Water Quality Index Score is a unitless number ranging from 1 to 100, with a higher number indicating better water quality. In general, stream sites scoring 80 and above are of “lowest concern,” while scores of 40 to 80 indicate “moderate concern,” and water quality at stations with scores below 40 are of “highest concern.” Scores are determined for temperature, pH, fecal coliform bacteria, dissolved oxygen, total suspended sediment, turbidity, total phosphorus, and total nitrogen. Constituent scores are then combined, and results are aggregated over time to produce a single yearly score for each sample station. King County Environmental Lab analyzes the water quality samples collected by City staff and calculates the annual Water Quality Index Score for Shoreline streams.</p> <p>The average Water Quality Index Score across all City of Shoreline stream sites increased from 40.4 in 2008 to 56.6 in 2019. All but one stream scored in the category of “Moderate Concern” in 2019, with one stream remaining in the category of “Highest Concern.” The average across all Shoreline stream sites remains in the category of “Moderate Concern” or moderately impaired water quality.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Install 200,000 square feet of rain gardens and other natural drainage systems to reduce polluted runoff by 2030	88,000 sq ft	141,304 sq ft
<p><b>DETAILS:</b> Data for the 2016 baseline was obtained by City staff in the Public Works Department using GIS data for City-installed raingardens, bioretention ponds, and permeable pavement projects. The baseline includes data points from 2009-2016. An analysis of this data in 2019 showed a higher 2016 baseline of 109,075 square feet. The source of this discrepancy is not clear.</p> <p>The 2019 status update includes square footage for City-installed rain gardens, bioretention ponds, and permeable pavement projects, from 2017-2019. From 2017-2019, the City installed 141,304 sq ft of natural drainage systems, also known as “low-impact development (LID)” features. LID refers to a suite of development tools and constructed features that both minimize the environmental impacts of development and seek to mimic ecological functions of the natural environment. Typically, LID refers to stormwater-specific features, such as rain gardens, bioswales, pervious pavement, and cisterns.</p> <p>While not included in this indicator, an additional 105,488 sq ft of LID features were also installed across the community as part of development or community projects from 2017–2019.</p>		

## RESILIENT COMMUNITIES

INDICATOR	2014 BASELINE	2019 STATUS UPDATE
Add nearly 2,000 additional affordable housing units in Shoreline by 2031	11,358 units	278 units added
<p><b>DETAILS:</b> The 2014 baseline appears to reference data from the 2014 American Communities Survey and the 2014 Final Environmental Impact Statement for the 185th Street Station Subarea Planned Action. For the 2019 status update, City staff referenced the City Property Tax Exemption report for 2007-2019. The Property Tax Exemption (PTE) program is the City’s main affordable housing program. For a development to qualify in the targeted residential areas, a project must be multifamily housing development with at least 20% of the units meeting the affordable housing definition as defined in Shoreline Municipal Code Chapter 3.27.020 (excluding the two light-rail station areas).</p> <p>Since the first PTE project in 2007, eight buildings with a total of 820 units have enrolled in the City’s PTE programs, producing 278 affordable units. Seven more buildings currently in design and permitting are expected to enroll in the City’s 12-year PTE program. This will add approximately 1,354 PTE units, including an estimated 272 affordable units.</p>		

INDICATOR	2016 BASELINE	2019 STATUS UPDATE
Create an estimated 7,200 new jobs in Shoreline by 2035	NA	1,076 new jobs since 2016
<p><b>DETAILS:</b> Data for 2018 showed that Shoreline had 17,037 total jobs, for an increase of 1,076 jobs since 2016. Data for 2019 was not available at the time of publication for this report but is anticipated to be available in mid-May 2020.</p> <p>Data is reported by the Puget Sound Regional Council (PSRC), as received from the State Employment Security Department (ESD). Supplemental information from Boeing, OSPI, and governmental units from the same period are collected directly by PSRC and used as distributions of the jobs totals reported by ESD. Duplicates, temporary staffing agencies, ski resorts, out-of-area records, and unlocatable records are removed from the dataset. Major sector employment totals by county from the initial ESD dataset are used as control totals and applied proportionally to each record’s employment data to arrive at a total matching that of ESD.</p>		



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