2014 HIGHLIGHTS





CARBON NEUTRAL, CLIMATE READY

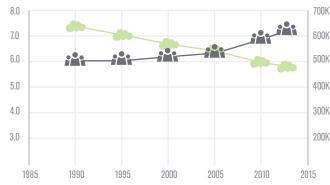
CARBON NEUTRAL

Seattle once again leaped to the forefront of climate leadership when it became the first city in the nation to adopt a comprehensive plan of action to achieve the audacious goal of becoming a carbon neutral city. Becoming carbon neutral is a much bigger vision than reaching a greenhouse gas reduction milestone. A carbon neutral Seattle will be a more socially and economically just city, a healthier city and a more prosperous city.

Seattle's Greenhouse Gas Emissions

On a per person basis, Seattle's core emissions (emissions in the transportation, energy and waste sectors) declined 22% since 1990 and 6% since 2008. Looking at emissions on a per person basis illustrates the benefits of urban living, and the value of Seattle accommodating a growing population with lower per person vehicle travel and carbon neutral electricity. In fact, the average Seattleites' emissions are about one-half less than the average U.S. resident.





As population has increased, emissions per resident has decreased

CLIMATE READY

In addition to drastically reducing our emissions, Seattle is also committed to preparing for the unavoidable weather changes residents and businesses will experience in the coming decades. How prepared and resilient we are as a community will be critical to maintaining our high quality of life.

SEATTLE IS AT THE FOREFRONT OF CLIMATE LEADERSHIP

FIRST CITY in the nation to adopt a comprehensive plan of action to become a CARBON NEUTRAL CITY.



1/3rd LESS than in the rest of KING COUNTY

50% LESS than for the UNITED STATES AS A WHOLE.

REPORT CONTENTS



This report highlights a few of the "quick start" actions called out in the 2013 Seattle Climate Action plan to get us moving down the path to carbon neutrality and community preparedness.

TRANSPORTATION:

Transportation Choices
& Complete Communities 3

BUILDING ENERGY:

Performance Requirements,
Incentives & Assistance

WASTE:

Waste Reduction &
Process Improvements

PREPAREDNESS:

Preparing for a
Changing Climate

PREPARED BY:





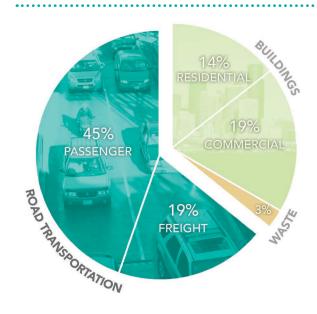
THE IMPACT OF TRANSPORTATION

Road transportation is Seattle's largest source of greenhouse gas emissions and presents the greatest opportunity for individuals to make an impact. The good news is that Seattleites are driving cleaner cars and putting less miles on them resulting in an overall decline of per person transportation emissions. Our challenge lies in the fact that as our city continues to grow, Seattle's total transportation emissions also continues to rise.

OUR APPROACH TO REDUCING IMPACT

The best way we can reduce Seattle's transportation impact on the climate is to make walking, biking, and riding the bus the easiest ways for you to get around. People who can meet many of their daily needs by walking, biking or riding transit also benefit from lower overall household costs, improved health, thriving local business districts and increased opportunities for housing and jobs. Furthermore, money spent on cars and gasoline creates less than half as many local jobs as money spent on other goods and services.

2012 SEATTLE CORE EMISSIONS



OUR PROGRESS



59% INCREASE in bikers since 2011



27% INCREASE in pedestrians since 2011



INCREASE in daily bus boardings in 2 years



MOST walkable large city in the US*

ACTIONS SUPPORTING TRANSPORTATION CHOICES AND COMPLETE COMMUNITIES



Protected Bike Lanes

Seattle has added more than nine miles of protected bikes lanes throughout the city and plans are in the works to add 14 more miles in the next two years. While appealing to all cyclists, they are especially inviting to new riders, contributing to an overall growth in bicyclists Seattle has seen in recent years.



Safe Routes to School

The Safe Routes to School (SRTS) program has used a combination of engineering, education, encouragement, and enforcement to achieve an increase in students walking and biking to school. In 2014, the SRTS program made physical improvements at 20 school sites; and provided funding to 29 schools and community organizations for education and encouragement programs



Transit Information Kiosks

In partnership with King County Metro and Seattle City Light, SDOT installed four transit information kiosks with ORCA card readers at RapidRide stops along Third Avenue in downtown Seattle. These kiosks improve transit connections by making it quicker and easier to board RapidRide buses and improve the rider experience for all riders.





Pilot Parklet Program

The Seattle Department of Transportation's Pilot Parklet Program converts on-street parking spots into public spaces for all Seattleites to enjoy. A parklet, which essentially is an extension of the sidewalk into the street, creates a new public space for community activation and economic activity. Seattle currently has 4 parklets open and another 12 in the pipeline.







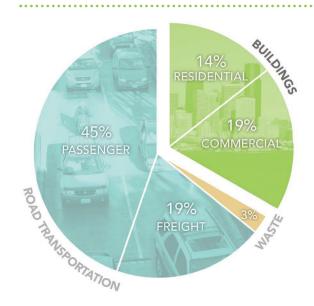
THE IMPACT OF BUILDING EMISSIONS

Seattle's clean and carbon-neutral electricity sets our city apart; however, building energy still accounts for over 20% of our greenhouse gas emissions. Those emissions are primarily from the use of oil and natural gas in our furnaces and water heaters. We have achieved significant reductions in our building energy emissions largely due to a strong conservation ethic and a robust commitment to energy efficiency. The Climate Action Plan includes numerous tools intended to grow our energy performance outcomes.

THE BENEFITS OF EMISSION REDUCTION

Conservation and efficiency measures not only help reduce Seattle's reliance on fossil fuels, but there is a major downstream benefit as well: the more of our clean hydropower was conserve, the more we can sell to other utilities to be used by communities outside Seattle, which reduces their need to use fossil fuels to power their buildings. By increasing readily available information about our energy use, providing assistance and incentives to reduce use, and continuing to improve our energy code, Seattle continues to set the standard.

2012 SEATTLE CORE EMISSIONS



OUR PROGRESS

14.190 Homes

could be powered for one year with the amount of energy saved in 2013. (121,290 MWh)



= 1000 Houses



Our solar capacity is now **6 MW -- 38 times** more than in 2008.



Over 1.000 residents & businesses have installed solar panels in Seattle since 2006.



4% **Reduction**

in City facility energy use in 2013 since 2008

ACTIONS SUPPORTING PERFORMANCE AND INCENTIVES & ASSISTANCE

Energy Benchmarking

Seattle is one of ten cities that have enacted energy benchmarking requiring building owners to track energy performance and annually report to the City. With an unprecedented 99% of required buildings reporting, Seattle's building owners and managers are well-poised to use this data to substantially reduce their energy use.



Energy Code Update

Seattle's recently updated energy code is one of the most advanced in the nation. Seattle's new commercial buildings are expected to use, on average, 11.3% less energy than those built to the already strong national standards and major renovations are now required to approach those same levels of efficiency.



Community Power Works Transition

Community Power (CPW) residential upgrade program has transitioned from its pilot phase to a sustainable business model. Most homes continue to save approximately 30% on their energy use when they go through the CPW program. CPW upgrades will prevent the release of over 220,000 tons of greenhouse gas emissions over the lifetime of the measures



The HomeWise weatherization program helps low income Seattle homeowners and rental property owners get free weatherization services which help residents save energy, lower heating and cooling costs, and save money on utility bills. Since 2013, HomeWise has helped over 1500 households achieve greater comfort with no cost to them.



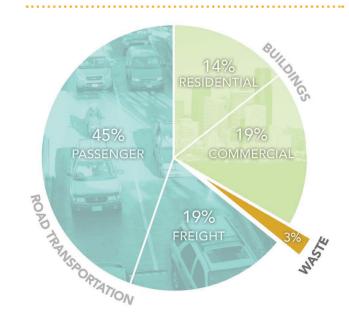




LEADERS IN WASTE REDUCTION

Seattle has been a recognized leader for responsible waste management for decades. Emissions from waste declined 22% total and 37% (yes, 37%!) per person since 1990 thanks to progressive and highly effective policies and programs reducing the total amount of waste generated and increasing the amount of the remaining waste recycled or composted.

2012 SEATTLE CORE EMISSIONS



KEEPING OUR LEAD WITH "ZERO WASTE"

Seattle's waste reductions programs take a "Zero Waste" approach. Zero Waste uses a "whole systems" view of the flow of resources and waste through a community. While our recycling accomplishments are laudable, a Zero Waste approach means we don't stop at just having some of the best recycling rates in the nation. Recycling will continue to be a critical component of our waste reductions—and emissions reduction—strategy, however Seattle is also breaking new ground in implementing strategies that reduce consumption and minimize waste altogether as well as working to ensure products are made to be reused, repaired or recycled back into nature or the marketplace.

OUR PROGRESS



of waste is recycled in both the residential and commercial sectors. (2013)



66% Decrease

in polystyrene in commercial garbage from 2008 to 2012. This is a direct result from the 2009 polystyrene ban



ACTIONS SUPPORTING WASTE REDUCTION & PROCESS IMPROVEMENTS



Seattle Public Utilities engaged businesses and residents to develop the City's pioneering requirement to compost food and found overwhelming support Starting in 2015, food will no longer be allowed in residential or commercial garbage in Seattle. The ordinance is expected to divert 38,000 tons of compostable food from the landfill.



New Construction and Demolition **Waste Requirements**

With a goal of recycling 70% of construction waste by 2020, Seattle Public Utilities is phasing in disposal bans from construction, remodeling and demolition activities. Materials targeted include: unpainted asphalt and paving, whole bricks, metal, cardboard, new construction gypsum scrap, carpet, plastic film, clean wood and tear-off asphalt shingles.



Piloting Separation of Self-Hauled Loads

Waste brought directly to transfer stations by residents and businesses has the lowest recycling rate of our waste streams. SPU is working to make it easier to recycle this waste and is piloting separation of self-hauled loads with over 50% construction and demolition waste, on the flat floor of the new South Transfer Station.



Stepped up Outreach & **Education**

Public Utilities Seattle partnered with King County, Bartell Drugs and BioBag USA to promote food composting. In a month-long campaign, more than 10,000 kitchen compost collectors and compostable bags were sold at deeply discounted prices. The multimedia advertising campaign garnered more than 11 million impressions.





THE IMPACT OF CLIMATE CHANGE

Flooding, heat waves, and extreme high tides are not new challenges in Seattle, and we have strategies for responding to them. However, climate change will shift the frequency, intensity, and timing of these events, and what we now consider an extreme event will become the new normal. If we are not prepared for these changes, the events will significantly impact our community's economy, infrastructure, and health. Therefore, it is critical that Seattle is prepared for the impacts of a changing climate.

OUR APPROACH TO PREPAREDNESS

The most significant climate changes in the Pacific Northwest will be to temperature, precipitation, and sea level. From a utility perspective, Seattle Public Utilities and Seattle City Light have been assessing the impact and preparing for a changing climate for years. We are building on that work to develop a citywide Climate Preparedness Strategy. Because our socially vulnerable communities are also the most climate vulnerable, equity is core guiding principle for the Strategy.

WHAT THE FUTURE HOLDS



Increase in sea level will lead to greater flooding and likely resulting in property damage and other economic losses.



MORE EXTREME **PRECIPITATION**

Wetter winters and more extreme precipitation events are expected and could stress our drainage system.



REDUCED MOUNTAIN SNOWPACK

Reductions in snowpack and changes in stream flows will affect how we operate Seattle's water and hydropower generation systems.



INCREASED TEMPERATURES

Increase in average temperatures and extreme heat events will increase the frequency and severity of heat stress, respiratory disease and energy demand for cooling.

ACTIONS THAT ARE HELPING TO PREPARE FOR A CHANGING CLIMATE

Implement the Seattle Green Stormwater Infrastructure

Seattle Public Utilities. Seattle Department of Transportation, multiple community-based organizations and hundreds of residents came together to design the Delridge Neighborhood Greenway and Natural Drainage System program. The project slated for construction in 2015 will manage approximately 4.44 million gallons of stormwater a year.



On-going research

Seattle City Light continues to research the effects of climate change on hydropower generation and transmission and distribution. This research will improve our understanding of the impact of glacial melt and stream flow changes on reservoir operations and potential changes in high winds and lightning.



Photo: Andrew File

Implement the Seattle Urban Forest Stewardship Plan

Trees not only make our city a more beautiful place to live, but also help manage stormwater, clean our air and water, reduce flooding and landslides, and improve our health. In 2014, the Trees for Neighborhoods program helped Seattle residents plant 1,000 trees in yards across the City.



Photo: SDOT

Engaging the Community

With Seattle's Office of Management Emergency and Parks & Recreation, OSE co-hosted four community events in South Seattle about disaster preparedness, water and electricity conservation, and climate change. More than 500 people attended four events, including a Halloween Festival, a Lantern Walk, a Thanksgiving Feast, and Holiday Bazaar.







www.**SEATTLE.GOV**/environment

