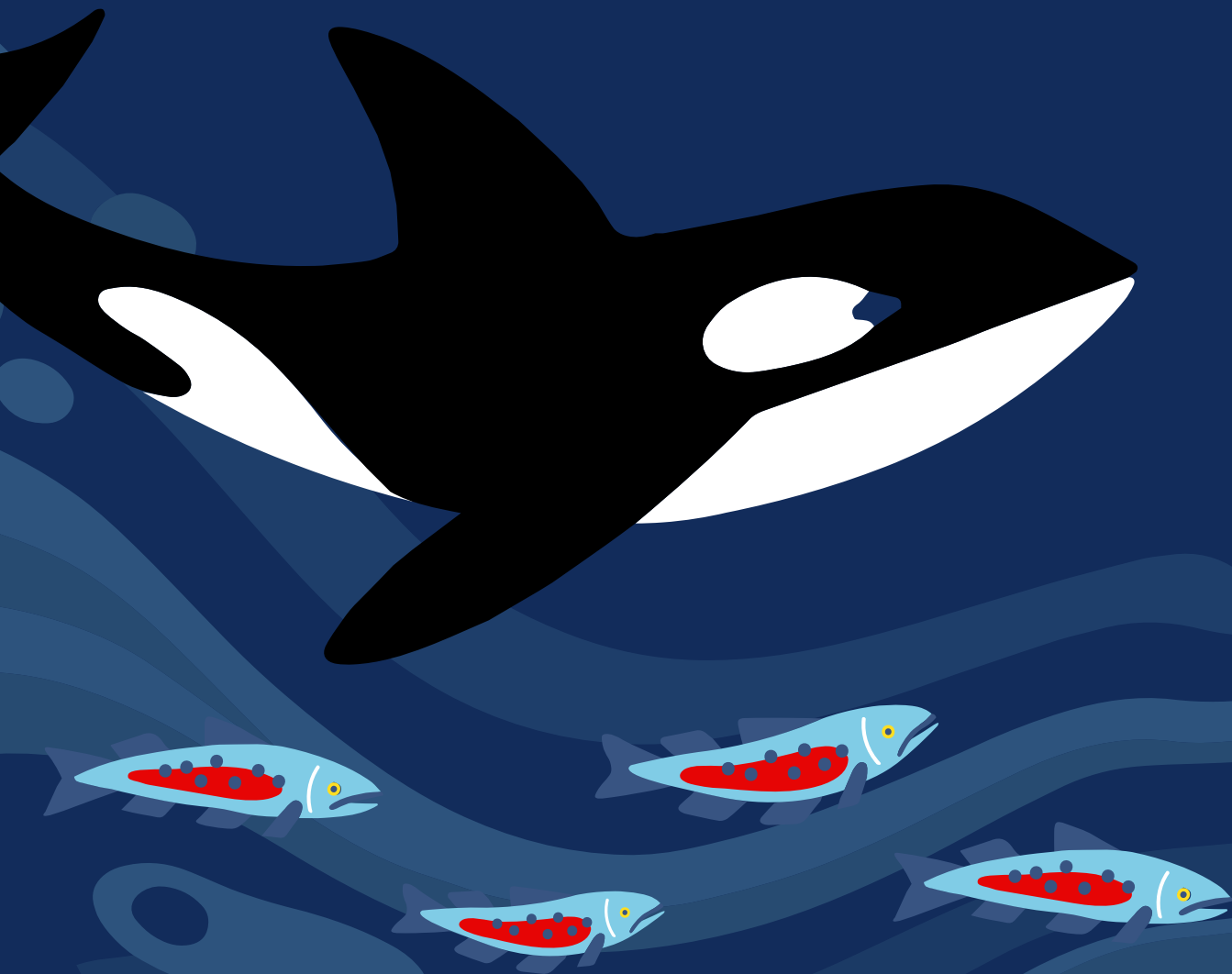




Seattle
Public
Utilities

Climate Action Roadmap

EXECUTIVE SUMMARY





Background

Worldwide, our environment and people face risks from climate change.

In Seattle, more frequent and severe flooding, reduced mountain snowpack, heat and smoke events, and shrinking salmon runs show how warming temperatures affect SPU's water and waste infrastructure, operations, and services. Climate burdens also fall disproportionately on low-income communities and communities of color.

SPU works on climate mitigation, climate adaptation, and environmental justice because our customers and services are harmed by and contribute to climate change.



Climate Adaptation

Adapt SPU and city-wide infrastructure and investments to a changing climate.



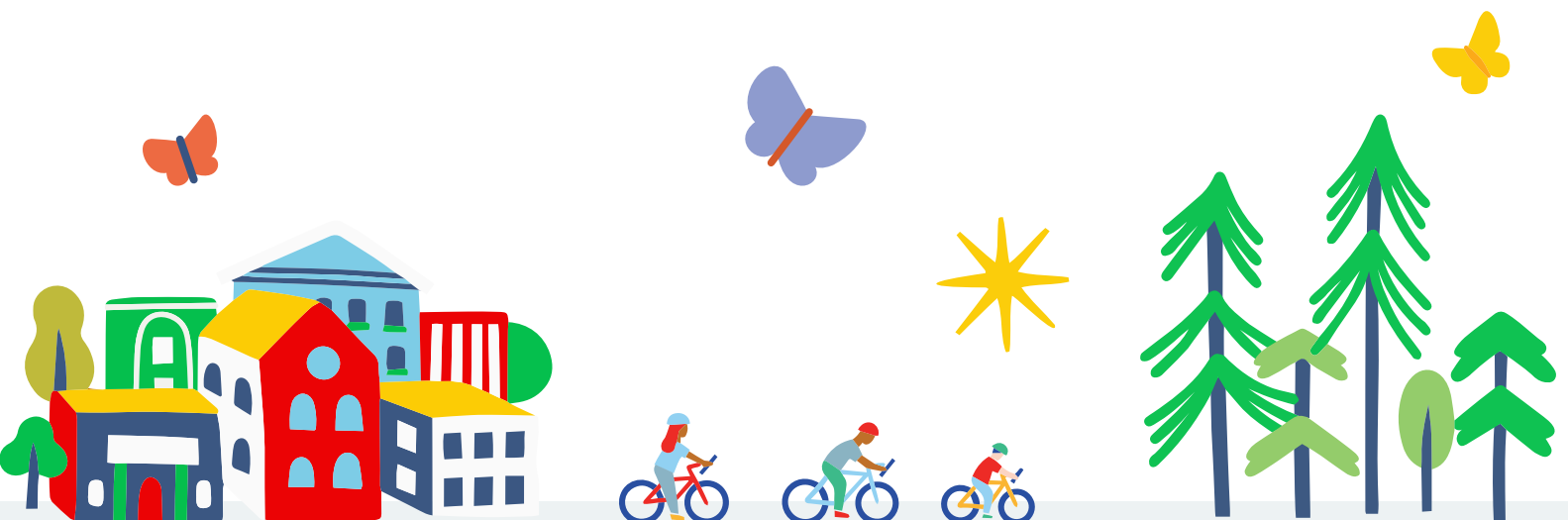
Climate Mitigation

Reduce greenhouse gas (GHG) emissions in our operations and city-wide.



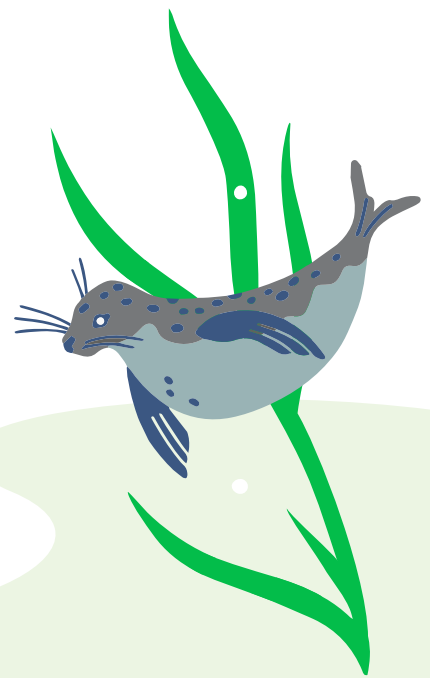
Environmental Justice

Work to address past harms, prioritize health, and build equitable communities.



Climate Action Roadmap

This is SPU's first Climate Action Roadmap; it seeks to speed up our climate work by expanding existing initiatives and starting new efforts. SPU will update this roadmap biannually, based on feedback, progress, and evolving climate science.



Key Takeways

In developing the roadmap, SPU identified three key takeaways:

1. Speed up.

SPU's pace of action needs to increase to achieve climate goals and prepare for climate impacts on service delivery.



2. Grow a culture of innovation.

New approaches to existing challenges – like power generation from the pressure in SPU pipes, electric battery storage, and even some habitat restoration methods – may improve day-to-day business operations and make us more climate-ready SPU needs to be open to strategic risks, learning, and trying new approaches.



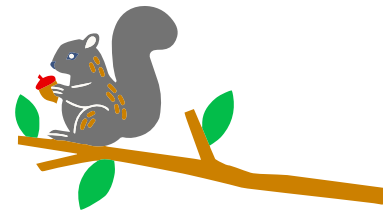
3. All SPU employees are climate workers.

Every SPU employee works on climate mitigation, adaptation, and justice. From the frontlines to the watersheds to our customer service desk to Seattle Municipal Tower to the transfer stations and collection trucks, all SPU employees help make SPU a climate-ready utility.



Action Items

The roadmap's 36 priority actions reduce greenhouse gas emissions, adapt to climate change, and reconnect people and the planet.



Mitigation Actions

- | | | | |
|----|--|-----|---|
| M1 | Deliver Building Electrification Strategy | M10 | Establish Carbon Offset Protocols |
| M2 | Partner with Puget Sound Energy Toward Decarbonization | M11 | Implement Sustainable Purchasing Policy |
| M3 | Improve Energy Efficiency Practices | M12 | Define SPU's Role in Mitigating Wastewater Emissions |
| M4 | Generate Renewable Energy | M13 | Reduce Embodied Carbon in New Construction |
| M5 | Address Fugitive Emissions | M14 | Advance Zero Waste Policies and Practices for SPU Operations |
| M6 | Transition Fleet to Electric Vehicles (EVs) | M15 | Advance High Emissions Impact Waste Prevention Efforts Across Seattle |
| M7 | Transition to Fossil-Fuel-Free Fuels | | |
| M8 | Prioritize Fuel Efficient Fleet Operations | | |
| M9 | Require Collection Truck Emissions Reductions | | |

Adaptation Actions

- | | | | |
|----|--|-----|--|
| A1 | Develop and Implement Adaptive Management Approach for Water Supply | A8 | Revise and Reinvest in Water Conservation Across Seattle |
| A2 | Develop Climate Resilient Plan for Drainage and Wastewater | A9 | Accelerate Action to Slow and Adapt to Ocean Acidification |
| A3 | Develop Water Reuse Roadmap | A10 | Advance and Prioritize Green Infrastructure and Nature-based Approaches to Stormwater Management |
| A4 | Invest in North One Water Facility | A11 | Invest in Watershed Resilience and Implement Watershed Forest Management Plan |
| A5 | Lead Duwamish Valley Water Resilience Planning and Implementation | A12 | Improve Aquatic Ecosystem Health and Habitat Conditions from Urban Creeks to Puget Sound |
| A6 | Develop Climate Resilient Design Guidance for Capital Projects | A13 | Invest in Urban Forests |
| A7 | Establish Water Efficiency Policies and Practices for SPU Operations | | |

Capacity Building Actions

- | | | | |
|----|---|----|--|
| C1 | Develop Climate-Specific Natural Resource Inventory and Management Plan | C5 | Develop SPU Climate Change Resource Hub |
| C2 | Foster a Forum for SPU Climate Leadership and Collaboration | C6 | Develop Funding and Financing Strategies for Climate Action |
| C3 | Invest in Climate Resilient Workforce Pathways | C7 | Develop and Implement SPU's Climate Communications and Storytelling Plan |
| C4 | Integrate Climate Action into SPU Education and Outreach Programs | C8 | Embed Climate Action into Legislative Priorities and Regulatory Requirements |

