We respectfully acknowledge the Suquamish and Duwamish peoples, who, throughout the generations, stewarded and thrived on the land where we live and work.
The Charge We have Been Given

- Celebrate success with sustainability and explore what is next
- Include new voices
- Review & analyze documents, and data looking for opportunities
- Summarize a vision and goals
- Recommend next steps
Table of Contents

• Executive Summary
• Background
• Overview and Engagement
• Discovery
• Analysis
• Synthesis (PLAYBOOK)
• Next Steps
• Appendix
Executive Summary

“The Beautiful thing about learning is that nobody can take it away from you.” - BB King
Vision

Use today’s financial and human resources to provide environmental justice and health benefits equitably across our community by empowering our staff to accomplish the following:
Recommendations

• Be a Carbon Positive District by 2040
• Be a Zero-Waste District by 2030
• Be a Responsible Water (LBC Core) District by 2040
• Complete benchmarking & planning
• Update existing policies, procedures and standards with new targets and best practices
• Continue to measure & liberate the data
• Retrofit & upgrade existing buildings on a schedule
Back-casting vs Forecasting

- Back-casting from the optimal target state
- Design and deliver a Minimum Viable Proposition...
- "North Star"...and evolve...
- Forecasting from the status quo...and evolve...
Back-casting from the ideal target state to the present

2030 Climate Positive

2028 BTA VI

30 RETRO oprs 30 RENEWABLES

2025 BEX VI

30 RETRO oprs 30 RENEWABLES

2022 BTA V

30 RETRO oprs 30 RENEWABLES

2020 12-15 RETRO oprs 12-15 RENEWABLES

2019 BEX V

12-15 RETRO oprs 12-15 RENEWABLES

MILESTONES

TIME

IMPACT AND INNOVATION
Back-casting from the ideal target state to the present.

- **2020**: 10-12 retrofits, 15 renewables
- **2022**: BTA V, 15 retrofits, 15 renewables
- **2025**: BEX VI, 15 retrofits, 15 renewables
- **2028**: BTA VI, 15 retrofits, 15 renewables
- **2031**: BEX VII, 15 retrofits, 15 renewables
- **2034**: BEX VII, 15 retrofits, 15 renewables
- **2037**: BEX VIII, 15 retrofits, 15 renewables
- **2040**: Climate Positive

Milestones:
- **2019**: BEX V, 10-12 retrofits, 15 renewables
RECOMMENDATIONS

- POLICY
  - 2020 CARBON FOOTPRINT BASELINE
  - MODIFY SPS CAPITAL FACTORS CRITERIA
  - UPDATE PERFORMANCE TARGETS FOR CARBON POSITIVE PERFORMANCE
  - LIVING BUILDING CHALLENGE (LBC) PROJECT EVALUATION (BEX V)
  - CREATE A DISTRICT RESILIENCE PLAN
  - DRAFT A COMPREHENSIVE SUSTAINABILITY PLAN
  - UPDATE STANDARDS
  - SUPPORT GREEN TEAMS AND CERTIFICATION
  - COLLABORATE TO INTEGRATE SUSTAINABILITY IN CURRICULUM
  - DEVELOP CENTRALIZED GREEN PURCHASING STANDARDS
  - EMPOWER LEADERSHIP
  - ACQUIRE A JUST LABEL FOR THE DISTRICT

- STAFFING
  - IMPROVE RFP PROCESS FOR DESIGN/CONSTRUCTION TEAMS FOR BETTER PERFORMANCE OUTCOMES

- EDUCATION
  - MODEL EMBODIED CARBON IN BUILDINGS

- EQUITY
  - PROVIDE ONGOING SUSTAINABILITY TRAINING

- MEASUREMENT
  - MEASURE HANDPRINTS FOR POSITIVE OUTCOMES
  - LIBERATE DATA TO TELL A STORY
  - EXPLORE A POWER PURCHASE AGREEMENT FOR DISTRICT-WIDE RENEWABLE POWER
  - INTEGRATE BIOPHILIC DESIGN INTO ALL SCHOOLS

- BUILDINGS + SITE
  - REQUIRE LBC CORE + PETAL CERTIFICATION (NEW PROJECTS)
Background

“Our relationship with nature is more one of being than having. We are nature: we do not have nature.” - Steven Harper
Sustainability has been all about shrinking your footprint.
To be Regenerative, you must give, to increase your handprint.
The Path to Net Positive

Reduce your Footprint
WATER CONSERVATION & RAINWATER COLLECTION
ON-SITE EFFICIENCY MEASURES
ON-SITE RENEWABLE ENERGY PRODUCTION

Grow your Handprint
PROCESS MORE THAN YOUR STORMWATER
PRODUCE MORE ENERGY THAN YOU NEED
IMPROVING YOUR SUPPLY CHAIN
PLANT TREES & PERMACULTURE
RESTORE HABITAT
PROVIDE NEIGHBORHOOD RESILIENCE
Why Regeneration?

• Repair damage and make things better
• Focus on community thriving
• More interesting and educational
• Mitigation is not enough!
• Students insist!
Overview and Engagement

“The more that you read, the more things you will know. The more that you learn, the more places you’ll go.” – Dr. Seuss
Engagement Focus Categories

- Education Systems
- Equity
- Health + Wellbeing
- Carbon Footprint (Energy, Embodied Carbon and Transportation)
- Water Systems
- Site + Living Systems
- Materials Resources
- Economic Sustainability
Survey Results

1. Integrate sustainability into the curriculum (multi-culturally)

2. Let buildings and outdoor spaces educate about sustainability

3. Provide stipends/ “Clock Hours” for teachers to lead
1. Integrate sustainability into core curriculum (37)
2. Let buildings and outdoor spaces teach (24)
3. Provide advanced/applied learning opportunities (16)

Health & Wellbeing
1. Provide connections to outdoors (26)
2. Provide daylight and fresh air for all (21)
3. Provide fresh, healthy culturally diverse meals (17)

Equity
1. Target Universalism to benefit all (22)
2. Empower a Chief Sustainability Director (20)
3. Empower an Environmental Justice Director (20)
4. Incorporate sustainability and equity into SDAT (18)

Carbon Footprint
1. Prepare a system-wide carbon footprint (31)
2. Design with passive systems first (19)
3. Be carbon neutral by 2030 (18)
4. Demonstrate net-positive carbon on a project (18)
| **Water Systems** | 1 Reduce water consumptions across the district (22)  
| | 2 Achieve net-positive water for new construction (22)  
| | 3 Demonstrate rainwater capture at each school (18)  
| **Site and Living Systems** | 1 Eliminate fossil fuels and petrochemicals from maintenance (26)  
| | 2 Develop regenerative site practices (24)  
| | 3 Provide natural areas at all schools (22)  
| **Materials & Resources** | 1 Become a zero-waste district by 2030 (32)  
| | 2 Eliminate single-use plastics (31)  
| | 3 Require centralized green purchasing (22)  
| **Economic Sustainability** | 1 Invest in preventative maintenance (37)  
| | 2 Include human health and carbon in financial decisions (25)  
| | 3 Invest capital funds in future operational savings and life-cycle cost benefits (22) |
Observations from Engagement

- Do the Math
- Order of Operations
- Educational Opportunity
- Let’s Get Outside
- Equity on our Minds
- Tell our stories
- Ideas in the toolkit
“Be the change you wish to see in the world.” – Gandhi
Document Review

- Resolutions and policies
- Case studies
- Sample RFQ’s
- Washington Sustainable Schools Protocol 2018
- Standards
- Available performance data
- Green Ribbon Award
“That which we persist in doing becomes easier for us to do; not that the nature of the thing itself is changed, but that our power to do is increased.”

–Ralph Waldo Emerson
Leadership – You Have It!

Leadership
• Top Down
• Bottom Up &
• Middle Out

Vision in Three Words:
• Innovation is Key
• Sustainability isn’t optional
• These People Care
• Share the Stories
• Passion for Change

“When we can find each other, we are great collaborators”

“I’ve only been here a year, but everyone that I run into seems to be really committed to their work.”

“We have a lot of really smart and talented people, but they are also willing to listen to new ideas and include new voices.”
Exemplary Performance

- The Green Ribbon Award over multiple Years
- 89 out of 100 schools have been retrofitted for energy, water and waste
- Reduced energy by 17.5%
- 10 solar schools
- 64 Washington Green Schools
- Increased recycling by 19.6%
- Learning Gardens in 80% of schools
- Saved $1.4 Million in waste and energy costs
- 8000 pounds of food diverted from the landfill and shared with the community
Potential Barriers

- Need a Director with authority and focus for sustainability & environmental justice
- Operations budget is disconnected from capital budgets
- Behavior change & education is challenging
- Data is hiding
- Must have a full carbon footprint to be able to prioritize and plan
“Collaboration allows us to know more than we are capable of knowing ourselves.”
–Paul Solarz
## Recommendations

### Policy
- 2020 Carbon Footprint Baseline
- Modify SPS Capital Factors Criteria
- Update Performance Targets for Carbon Positive Performance
- Living Building Challenge (LBC) Project Evaluation (BEX V)
- Create a District Resilience Plan
- Draft a comprehensive sustainability plan
- Update standards
- Support green teams and certification
- Collaborate to integrate sustainability in curriculum

### Staffing
- Develop centralized green purchasing standards
- Empower leadership
- Acquire a Just Label for the District
- Improve RFP process for design/construction teams for better performance outcomes
- Model embodied carbon in buildings

### Education
- Provide ongoing sustainability training
- Measure handprints for positive outcomes
- Liberate data to tell a story
- Explore a power purchase agreement for district-wide renewable power
- Integrate biophilic design into all schools
- Require LBC Core + Petal certification (new projects)

### Equity
-

### Measurement
-

### Buildings + Site
-
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Playbook

- Category
- Title
- What - Recommended Goal/Strategy
- Why is this important?
- References
- Resources Needed
- Carbon Positive Targets
- Green Purchasing
- District Resilience Plan
- PPA for Renewables
Policy Recommendations in Time

| 2018 | 2020 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 |
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| BEX V | BTA V | BEX VI | BTA VI | BEX VII | BTA VII | BEX VIII |

- **NEAR-TERM**
  - 1. Update performance targets for carbon positive performance
  - 2. Develop centralized green purchasing standards
  - 3. Create a district resilience plan
  - 4. Explore a power purchase agreement for district-wide renewable power

- **MID-TERM**

- **LONG-TERM**
Staffing
• A Director of Sustainability
• A Director of Environmental Justice
• With focus, authority and accountability
Staffing Recommendations in Time

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Education
• Support the Green Teams already in place
• Collaborate with the Curriculum Advisors
• Ongoing training
• Comprehensive Sustainability Plan
## Education Recommendations in Time

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### Near-Term
- **6.** Support Green Teams and Certification

### Mid-Term
- **7.** Collaborate to integrate sustainability in curriculum

### Long-Term
- **8.** Provide ongoing sustainability training
- **9.** Draft a comprehensive sustainability plan
Equity
• JUST Label for the District
• Modify the existing Capital Factors Criteria
Equity Recommendations in Time

| 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| BEX V | BTA V | BEX VI | BTA VI | BEX VII | BTA VII | BEX VIII |
| NEAR-TERM | MID-TERM | | | LONG-TERM |

10. Acquire a just label for the

11. Modify SPS capital factors criteria
Measurement
- Carbon baseline footprint for 2020
- Measures handprints and share positive outcomes
- Liberate data – tell stories!
# Measurement Recommendations in Time

| 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| BEX V | BTA V | BEX VI | BTA VI | BEX VII | BTA VII | BEX VIII |
| NEAR-TERM | MID-TERM | LONG-TERM |

- **2020 CARBON FOOTPRINT BASELINE**
- **MEASURE HANDPRINTS FOR POSITIVE OUTCOMES**
- **LIBERATE DATA TO TELL A STORY**
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Buildings + Site Recommendations in Time

- **2019**
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- **2021**
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- **2022**
  - BTA VI
- **2023**
  - BEX VII
  - LONG-TERM
- **2024**
  - BTA VII
- **2025**
  - BEX VIII

**Recommended Actions:**

1. **Living Building Challenge (LBC) Project Evaluation (BEX V)**
2. Update Standards
3. Improve RFP Process for Design/Construction Teams for Better Performance Outcomes
4. Integrate Biophilic Design into all Schools
5. Model Embodied Carbon in Buildings
6. Plan Sustainability Retrofits
7. Require LBC Core + Petal Certification (New Projects)
8. Combine Stormwater Retrofits with Living School Yards
"It’s not from ourselves that we learn to be better than we are." –Wendell Berry
Order of Operations:

- Baseline Calculations
- BEX V Evaluations
- BTA V Planning
- Start Comp. Planning
- Update Standards
- Cont. Staff Education
- Empower Leadership
- Implement Targets
- Keep Measuring
- Celebrate as you go!
Thank you!