



Collective Impact Story

Sustainability Ambassadors | September 2020 - September 2021

61 Student Ambassadors
128 School Districts (11 Private)
152 Teachers Engaged in PBL Curriculum Design Labs

Water Footprint Ambassador Average
1,556 Gallons of H₂O/Day
 U.S. Average: 2,200 Gallons of H₂O/Day

Top 3 Footprint-Reduction Actions:
 1. Taking Shorter Showers
 2. Eating Less Meat/Animal Products
 3. Recycling More Plastic

Message from Peter Donaldson

11,800 Total Students Engaged in 2020-2021

MISSION
 Rapidly Advance a Sustainable Future

Rapidly
 Forest Fires! Flash Floods!
 Drought! Heat Waves! Hurricanes!

Advance
 Measure what actually matters to generate positive peer pressure for more of it to happen.

Sustainable
 Meeting the needs of the current generation without compromising the ability of future generations to meet their own needs.

Future
 When does it start?!

YOUTH

Training Program
 Sustainable Systems College

125 Hours per Year
 Sustainable Systems Leadership Training

The 4P Syllabus

- POLICY ANALYSIS
- PERFORMANCE ASSESSMENT
- PROJECT MANAGEMENT
- PUBLIC SPEAKING

IP3 Project Management

Impact Project Design

Impact Tracking

Impact Storytelling

8 Trainings

- Kent
- Sammamish
- Redmond
- Northshore
- Issaquah
- Edmonds
- Bellevue

150+ Students Impacted

Green Jobs Youth Pathways
 Preparing our future workforce to enter green jobs

- job profiles
- key readings
- pre-professional opportunities
- career explorations

3 Career Exploration Panels
 Water, Transportation, and Energy Systems

23 Expert Panelists

150 Student Attendees

Environmental Supervisor
 Rowena Valencia-Garcia

Energy Engineer
 Dayana Friedman

Food Systems Program Manager
 Laura Lewis

21 Green Jobs Profiles

Transportation Equity Program Manager
 Anvya Prasad

Transportation Engineer
 Tinotenda Jonga

Solar Company Founder
 Edwin Wanji

Communications Team
 Empowering Youth in Content Marketing Strategies

@ambassadors2050 FOLLOW

Students learn to create, post, and monitor social media content to drive our mission through creative storytelling.

What Do Salmon Need?
 Kaitlin Higgins, King County DWRP

HOW TO COMPOST INSIDE YOUR HOME
 An apartment-friendly guide to reducing your food waste!

Impact Storytelling

#WeNeedH2O FOLLOW
 In collaboration with Cascade Water Alliance

Students contracted to create content for our partners.

How Much Water Does It Really Take to Make Food?

Impact
 If I design and implement good family and local food per backyard...
 If we succeed in maintaining and enhancing our green spaces, we can minimize our carbon footprint in several sustainable systems.

Solar Neighborhood Challenge
 Signature Project

Sustainability Ambassadors, in partnership with **Solars Solar Energy**, is leading a neighborhood campaign to add solar panels to homes.

If these neighborhoods went solar...

- 112** Passengers cars' CO₂ emissions offset
- 511.6** Metric TONS of CO₂ saved
- 8,489** Tree seedlings grown for 10 years

Leadership Legacy

Join Ambassadors

- Receive Professional Training
- Participate in a Summer Internship
- Employment with SA
- Apply IP3
- Lead an SA Team
- Employment with Green Jobs
- Lead your Green Team/ASB/School Community Group
- Participate in a Paid Internship

Aarya
 Solar Neighborhood Project Manager
 "My professional skills have developed phenomenally due to Sustainability Ambassadors. I know that the leadership and collaboration skills that I have gained will help me succeed in a wide range of careers and colleges."

Nilesh
 Sammamish Team Co-Leader
 "Sustainability Ambassadors has allowed me to advance a sustainable future while strengthening my leadership qualities. It has given me a comprehensive view of global issues, prompting me to be a leader for the youth and make a tangible impact on my community."

Iris
 International Team Leader
 "Until I joined Sustainability Ambassadors, group facilitation was just a term. Now I have discovered a moral imperative as an educator. In the twilight of my career, I am empowered and focused."

Simran
 Green-Duwamish Watershed Intern
 "I have taken part in curriculum design and curating resources that not only cater to the creative and ambitious minds of students, but practice project-based learning. I have found more of myself through Sustainability Ambassadors and feel confident to pursue what else lies ahead of me."

Lillian
 Project Manager Intern
 "Sustainability Ambassadors has improved my public speaking abilities and facilitation and problem-solving skills. I feel more confident identifying students now compared to when I joined. The information and experience I take away actively prepares me for the workforce."

TEACHERS

"Very inspiring and lively sharing and learning across multiple backgrounds and generations is wonderful! Thank you!"
 Gay Roselle, Middle School Science, Vashon

"SA has made a tremendous impact in bringing relevance to my curriculum everyday. The available resources enable my students to take charge of their future."
 Jeff Burgard, Middle School Science, Issaquah

PBL Curriculum Design Labs

- CLIMATE** Science, Justice Solutions
- SNOWPACK** ANALYZING DATA TO SOLVE THE FUTURE
- Green Duwamish** Watershed
- Efs Middle School Lab**

152 Lab Teachers
36 Districts
11,400 Students Impacted
 (Estimated based on three class sections x 25 students)

Subject Range

- 5% Career Prep
- 8% Arts
- 10% Math
- 10% English
- 13% History
- 21% Engineering/Technology
- 33% Science

Grades Taught

- 2% 4th Grade and Below
- 10% 6th Grade
- 13% 7th Grade
- 13% 8th Grade
- 14% 9th Grade
- 15% 10th Grade
- 15% 11th Grade
- 14% 12th Grade

"The PBL Curriculum Design Labs help me facilitate truly meaningful, real-world, problem-based learning with my students, and facilitate their growth as change makers."
 - Julia Vasiliauskas, Middle School Science, Lake Washington

"I think our learning objectives should start with addressing the local issues in our community. I love that Sustainability Ambassadors encourages the use of language from city climate action plans as part of our learning objectives. And the involvement of passionate Student Ambassadors in these Labs, taking sophisticated and impactful action, motivates me to see what is possible with my students and that I should dare to think big."
 Allison Higgins, High School Science, Highline

"I love the real world connection that Sustainability Ambassadors provides. The lessons that are developed have positively engaged my students this past year and I love seeing some of my past students who are now part of the Sustainability Ambassadors team making a real difference in the world. This work has given my teaching team the opportunity to work together with cross-curricular subjects (Social Studies, English, Math and Science) in a more meaningful and relevant way."
 Brandt Egbert, High School Science, Kent

"Sustainability Ambassadors is changing the way I think about young people. Yes, my generation championed Earth Day. This generation is actioned gungy to save the Earth. Teaching reading and writing is important work... but they are only tools without a purpose. As a teacher of my work with Sustainability Ambassadors, I have discovered a moral imperative as an educator. In the twilight of my career, I am empowered and focused."
 Rich Butler, Middle School LASS, Issaquah

CURRICULUM RESOURCE DEVELOPMENT

Lesson Plans
 Guiding teachers to develop problem-based curriculum adventures using locally relevant issues

11 New Lesson Plans Published

- Impact Project Design
- Engaging Stakeholders
- Our Classroom Climate Action Plan
- SNOWPACK 101 It's Personal
- SNOWPACK 102 How to Analyze SNOTEL Data
- SNOWPACK 103 How Water Managers use Data to Make Decisions
- Climate Crisis is a \$26 Trillion Economic Opportunity
- What if Drought is the New Normal
- Reclaiming Wastewater for Water Supply

Community Impact Mapping
[mywater.world](#) (coolest url ever)

Map Layers **34**

Maps We Love **41**

Students practice geographic literacy and visualize impact stories in their neighborhoods

Impact Projects Posted **26**

Student-Made Map Stories **5**

Printable Classroom Maps **22**

Videos
 Bringing technical topics to the classroom through well-researched, youth-voiced webinars

SNOWPACK Series

- Climate and Weather Watershed/Ecosystem Integrity
- Drinking Water Supply
- Water Cycles
- Infrastructure Systems
- Social Systems
- Cultural/Historical Context
- Political Context
- Economic Context

My Smart Water Meter

Rishi Hazra
 SNOWPACK Production Manager

"SA doing... what our educational system should be doing -- preparing students for the real world. As a project manager for SA, I've received professional, constructive criticism and learned how feedback loops work within corporate partnerships. I've seen my videos published on these companies' social media pages and broadcasted to these people who care. That's one of the best aspects of being an Ambassador -- creating impact, even as a 'kid.'"

COMMUNITY

Sustainable Systems Coaches
 Engaged in mentoring students and advising teachers

13 Coaches

- Energy Efficiency Analyst**
 Santiago Rodriguez-Anderson
- Ecology and Research**
 Stephanie Blair
- City Council Member**
 Pam Stuart
- Climate Action Advocate**
 Jan Keller
- Restoration Biologist**
 Natalie Jones
- Architect**
 Alex Ianchenko

Town Hall @ School

- Empower students in high school civics and environmental science classes with the knowledge and skills to apply academic skills in context of improving sustainable community conditions as measured against city environmental stewardship plans and GHG emissions reduction targets.
- Classroom research on city policies and performance measures
- Interaction with city staff and council members through a virtual Town Hall event
- Follow up in the classroom with student impact project design
- Report impact to stakeholders

Types of Student Impact Projects

Bellevue: First city to participate! April 28th 2021

50 students participating in civics or science curriculum

25 students reps at Town Hall event

5/5 Bellevue high schools with student rep participation

2/5 Bellevue high schools with teacher participation

35 student impact projects (Bellevue High School)

K4C - PBL Alignment

Aligning the goals of the King County Cities Climate Collaborative (K4C) with problem-based, place-based (PBL) Curriculum Pathways and student impact project design.

Published new lesson plan with City Climate Action Planning

Produced working draft of a new table that aligns K4C goals, curriculum, and student projects

K4C Shared Goals	PBL Curriculum Pathways	Student Impact Projects
Climate Policy/Preparation	Our Classroom Climate Action Plan	My Water Footprint
Transportation and Land Use	Impact Project Design	Solar Neighborhood Challenge
Clean Fuels and Electric Vehicles	Engaging Stakeholders	Carpooling Campaign
Energy Supply	Team Work Building	Bike to School
Green Building and Energy Management	Climate Soil-Winning	EY Changing Infrastructure
Community and Partners Management	Economic Solutions as Climate Opportunity	Trees are Cool
Forests and Farming	Climate Justice	Backyard Composting
Operations Pathway		LED Home Lighting Swapout

Our Classroom Climate Action Plan

Facilitated first annual Foundation Lab for students and teachers on K4C - PBL Alignment

Green-Duwamish Watershed Curriculum Design Lab
 Funding support from **King County Waterworks Program**

Supporting middle school and high school teachers in designing problem-based, place-based curriculum pathways that meet academic standards in context of advancing salmon recovery goals. The program provides as Neighborhood Stewardship Partnership Recovery Plan.

4 School Districts engaged:
 Kent, Auburn, Tukwila, Highline

44 Teacher Participants since 2018

3,300 Estimated students impacted (25 students x 3 sections per teacher)

22 Videos "Experts in the Classroom"

Green-Duwamish Watershed Ecosystem Forum, Tacoma Water, City of Kent, King County Lower Green River Steward, Washington Stormwater Center, Puget Soundkeeper Alliance, WA Dept of Ecology, Green River Coalition, Urban Waters Federal Partnership

9 Technical Partners

9 New Lessons published

SNOWPACK Lesson Collection

- SNOWPACK 101 It's Personal
- SNOWPACK 102 How to Analyze SNOTEL Data
- SNOWPACK 103 How Water Managers use Data to Make Decisions

Climate Science, Climate Justice, Climate Solutions

PBL Curriculum Design Lab and Coaching. A new partnership with Puget Sound Educational Service District and the Educators of Color Leadership Community.

Funding support from the **Climate Time** proviso of the Washington State Legislature

35 Teacher Participants

2,880 Estimated students impacted

17 School Districts engaged

CLIMATE TIME
 CLIMATE SCIENCE LEARNING

Becoming a Learning Organization

JOIN US!

- Students! Apply to be an Ambassador
- Teachers! Join our PBL Curriculum Design Labs
- Register for upcoming events!
- Sign up for our mailing list!
- Donate!

SUSTAINABILITY AMBASSADORS
sustainabilityambassadors.org | @ambassadors2050 on Instagram