HAWAI‘I YOUTH SUSTAINABILITY CHALLENGE
2018-2019

Program Overview
A program of Kupu and Kōkua Hawai‘i Foundation, the Hawai‘i Youth Sustainability Challenge is an initiative to empower Hawai‘i youth to create solutions to conservation and sustainability challenges in their schools and communities. In the 2018-2019 school year, students in public, private, and charter schools from grades 6-12 applied to receive funding, as well as mentorship, to support their innovative and grassroots environmental initiatives.

2018-2019 OVERVIEW

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total projects</td>
<td>28</td>
</tr>
<tr>
<td>Total funds awarded</td>
<td>$18,015</td>
</tr>
<tr>
<td>Total schools</td>
<td>23</td>
</tr>
<tr>
<td># students actively participated</td>
<td>531</td>
</tr>
<tr>
<td># students impacted by project work</td>
<td>6,019</td>
</tr>
<tr>
<td>Hours spent with mentors</td>
<td>300+</td>
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List of Awarded Schools

Hawai‘i Island
- Hawai‘i Preparatory Academy - Coral Curriculum ($300)
- Hawai‘i Preparatory Academy - Teaching Beachgoers to Kōkua the Ocean ($70)
- Hilo High School - The Coral Quarry ($300)
- Honoka‘a High School - Plastic Free Lunches ($1,000)
- Honoka‘a High School - It’s a Team Effort ($1,000)
- Laupāhoehoe Communitiy PCS - Sustainability in Motion - Rapid ‘Ōhi‘a Death ($500)
- West Hawai‘i Explorations Academy - Kinetic Renewable Energy Wearable Device (KREW) ($456)
- Volcano School of Arts & Sciences - Kaua‘ina Kawa ($1,000)
- Hawaiian Island
- Kanuikapono - Project Kuleana ($814)
- Kauai High School - Zero-Waste Harvester ($783)

Kauai (cont.)
- Kawaihina NCPCS - Ka Lā‘au Lā‘au Lapu‘au ($900)
- Maui
- Maui Hulau - Sunscreen Swaps on Beaches ($518)
- Oahu
- Hālau Kū Māna - Hanging Garden Kit ($900)
- Hālau Kū Māna - Reduce Use of Energy in Makiki ($150)
- Hālau Kū Māna - Pa‘a ‘Aina ($83)
- Hawai‘i Baptist Academy - Food Waste Reduction Initiative ($744)
- Hawai‘i Tech Academy - HTA Aquaponics Automation Project ($786)
- Honolulu Waldorf School - A Niu Vision ($564)
- Iolani School - Passion for Food Action ($950)
- James Campbell High School - Native Hawaiian Garden ($1,000)

Oahu (cont.)
- James Campbell High School - Rapid ‘Ōhi‘a Death Awareness Project for the Keiki ($709)
- Kapolei High School - Feeding Our Community with Static Hydroponics ($709)
- Kapolei High School - Energy Audit and Education Campaign ($0)
- Kapolei High School - Kui Club ($900)
- Le Jardin - Peace and Sustainability Conference ($1,000)
- School of Examining Essential Questions of Sustainability (SEEQS) - SEEQS Community Garden ($814)
- Sunset Beach Elementary - School Garden Rainwater Catchment System ($380)
- Voyager PCS - Changing the Environment from the Inside Out ($751)
overview

STUDENT IMPACT

Hawai‘i Youth Sustainability Challenge grant awardees were impacted far beyond the scope of their individual projects. See a glimpse of how these leaders shared their work with larger audiences and are inspired to keep serving.

What students report after successful completion of their projects:

93% are motivated to remain active in stewarding environmental and cultural resources
86% are encouraged to continue to volunteer or serve their school or community
91% feel they improved their leadership skills
95% feel a greater responsibility for stewarding our environmental resources

In their own words …

This project has impacted me very much. Through planning all these events to help raise awareness for sustainability, I’ve realized that I want to continue pursuing environmental activism throughout my whole life. I’ve learned so much about how eating a plant based diet tremendously reduces greenhouse gas emissions, and so now I have adopted this way of eating.

Caroline Tamman (9) ʻIolani School

The thing I liked the best about the Hawai‘i Youth Sustainability Challenge was that it was made for students and it is all student led. I strongly believe that our generation is the future and we are the ones who can make a big impact to save our planet.

Jennifer Kamimura (11) Hilo High School

The best part of the Hawai‘i Youth Sustainability Challenge was the ability to hold the sunscreen swaps and give free samples of locally made sunscreen to visitors and locals. I personally enjoyed being able to educate people on how sunscreen is harming our reefs and bodies.

Kiana Liu (12) Maui Huliau

Left: Taylor and Christine Davis (Maui Huliau) educated beach goers at Baldwin Beach about reef-safe sunscreens. Right: 6th graders at Voyager PCS collected marine debris and turned it into a mural for their classroom.

The Hawaii Youth Sustainability Challenge is a program of Kupu and Kōkua Hawai‘i Foundation
HAWE'I CONSERVATION CONFERENCE

Six exemplary student teams had the opportunity to present their Hawai‘i Youth Sustainability Challenge projects during a special 1-hour forum called “Kids Creating Conservation Innovations: Students Share Their Hawai‘i Youth Sustainability Challenge Projects.”

The Schools:
- Laupāhoehoe Communitiy PCS - "Sustainability in Motion" (Hawai‘i Island)
- West Hawai‘i Explorations Academy - "Kinetic Renewable Energy Wearable Device (KREWD)" (Hawai‘i Island)
- Maui Huliau - "Sunscreen Swaps on Beaches" (Maui)
- Hawai‘i Baptist Academy - "Food Waste Reduction Initiative" (Oahu)
- Hawai‘i Tech Academy - "HTA Aquaponics Automation Project (Oahu)
- ʻIolani School - "Passion for Food Action" (Oahu)

Each student team presented their project and participated in discussions with attendees.

Pictured above: (Left) Two of the selected student teams from ʻIolani School (top) and West Hawai‘i Explorations Academy (bottom) present at the 2019 Hawaii Conservation Conference. (Right) Mrs. Dawn Amano-Ige with the student presenters at the 2019 Hawaii Conservation Conference.

The 2018-2019 Hawai‘i Youth Sustainability Challenge is supported by:
Kamehameha Schools | Kaiser Permanente | Public Schools of Hawai‘i Foundation | eWorldES | HouseMart
Finance Factors | Turtle Bay Foundation

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Kealiikoa Hanoa and his fellow classmates have been working to restore a portion of Ka’u called Kawa. For the last two years Kealiikoa and his classmates have removed invasive species, restored springs, and planted native plants. In order to maintain their progress, Kealiikoa applied to the Hawai’i Youth Sustainability Challenge for funding to improve his school’s watering system in the restoration area. He was able to purchase a water pump to bring spring water to the native plants more efficiently. Due to the students’ hard work, the plants are thriving and the land has been protected from future development.

Hawai’i Island at a Glance

$4,626 total funds awarded

6 # of schools

8 # of projects

158 # students actively participated

1240 # students impacted

33 total mentor hours
highlights by island

MAUI

Maui Huliau - "Sunscreen Swaps on Beaches"

Students from Maui Huliau hosted sunscreen education stations on Maui beaches where they gave out tins of reef-safe sunscreen and information cards. They educated beachgoers on how chemicals like oxybenzone, octinoxate, and many other chemicals found in sunscreen can be harmful to our bodies and our reefs.

Maui at a Glance

$518

total funds awarded

1

# of schools and projects

4

# students actively participated

500

# students impacted

2

total mentor hours
Students of Kanuikapono Public Charter School built a greenhouse on campus to establish a hands-on learning environment that provides food for their school. They first had to clear the area of trash, invasive plant species and the pre-existing nursery, as well as revive existing native plants. Students created the blueprints of the greenhouse and purchased their materials. They then built the greenhouse and grow beds, prepped the soil with compost, installed irrigation and finished by planting seedlings.

Kauai at a Glance

$2,497 total funds awarded

3 # of schools and projects

47+ # students actively participated

247+ # students impacted

15+ total mentor hours
Hālau Kū Māna - "Hanging Garden Kit"

An 11th grader from Hālau Kū Māna designed the Hanging Garden Kit from recyclable materials for people who live in apartments or do not have space to grow their own food. Her project was made to teach residents of Hawai‘i how to take care of and grow their own food. The goal of the Hanging Garden Kit is to limit Hawai‘i residents' dependence on importing food from other parts of the world.

Hawai‘i Technology Academy - "HTA Aquaponics Automation Project"

Students of Hawai‘i Technology Academy aimed to design and build a low-cost, semi-autonomous, sustainable aquaponics system for educational use. The goal of this project was to make the system more sustainable through the use of solar power and as automated as possible. In the end, the students developed a functional and autonomous, minimal human input, cloud-connected, off-grid aquaponics prototype which provides data on the temperature of the tanks, water pH, level of fish food, and battery charge.

Oahu at a Glance

$10,374 total funds awarded

11 # of schools

16 # of projects

322 # students actively participated

4152 # students impacted

279 total mentor hours