

**Accelerating Climate
Action Through Education
at the Global Climate
Action Summit**

*Change is Real
Climate*

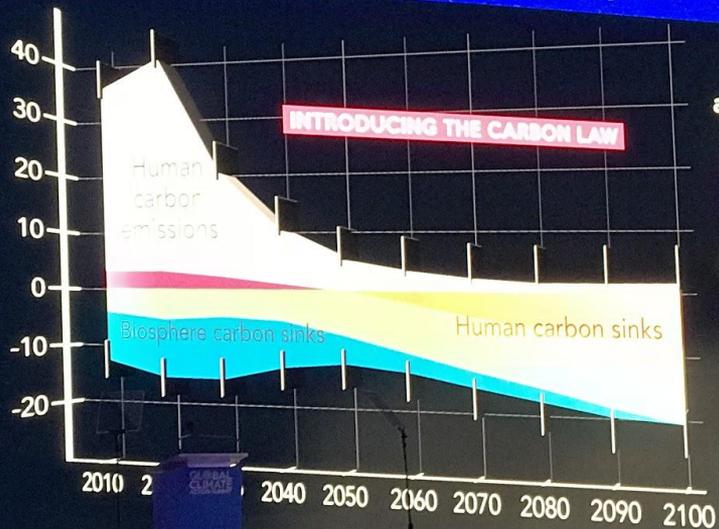
Frank Niepold NOAA/CLEAN

<http://ccepalliance.org/accelerating-climate-action-workshop/>





Kanyon Sayers-Roods, Indian Canyon Muraun Band of Costanoan Ohlone People



anthropogenic CO₂ emissions (gross)

- fossil fuel and industry
- land use and land use change

anthropogenic CO₂ removals

- land use and land use change
- engineering CO₂ sink (BECCS)

biosphere carbon sink

- Land Carbon Sink
- Ocean Carbon Sink

Data Source:
A roadmap for rapid decarbonisation . Rog

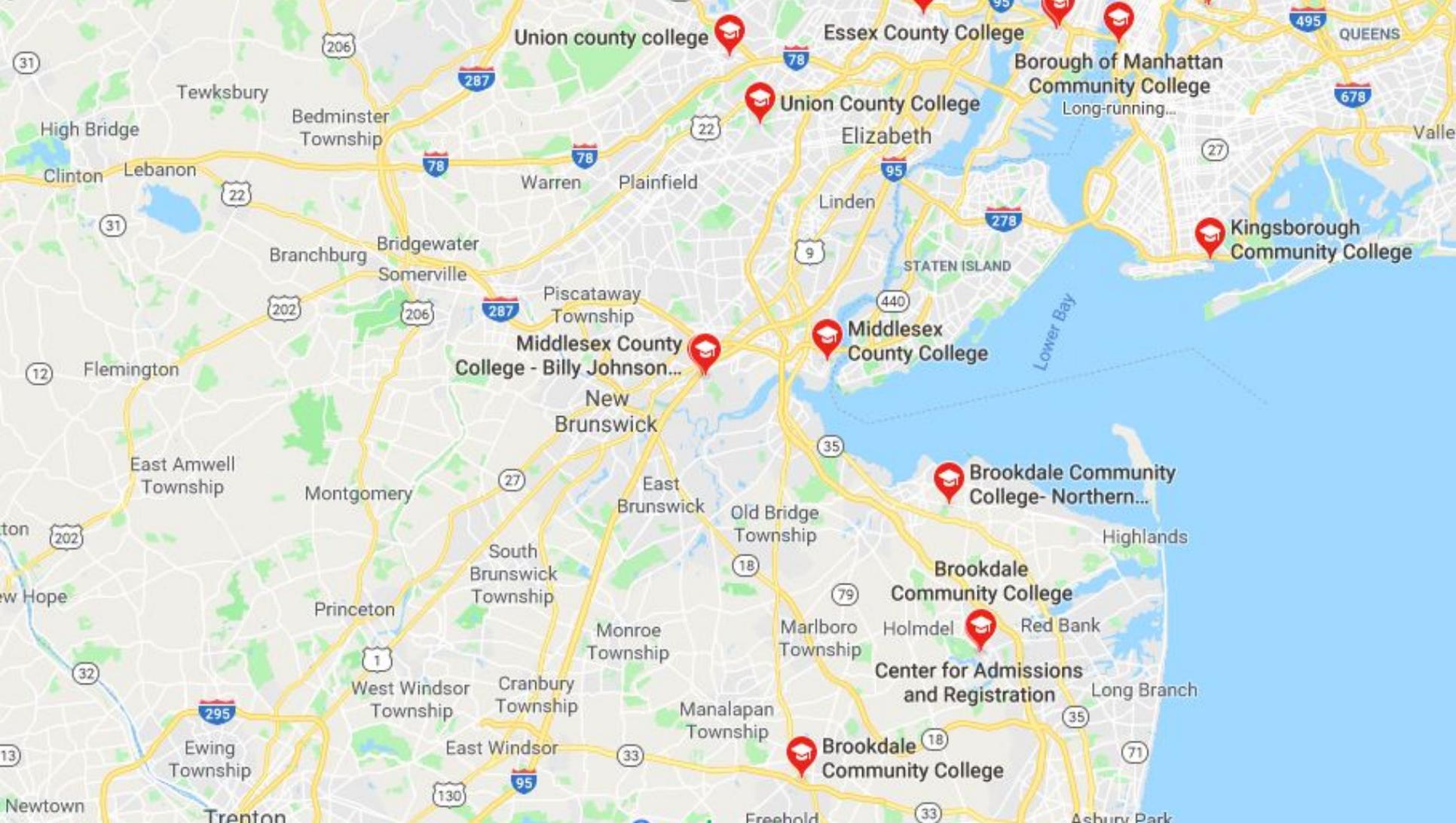
ey et al. Science 2017

Kevin Johnson, Starbucks chief executive officer, was among those on a panel this morning titled “Leadership: What cities, states, businesses, investors and civil society have achieved together.”



Democratic governor Phil Murphy said, a key development in his goal of adding 3.5 gigawatts of wind energy in the state by 2030 -- which he called "the largest and most ambitious wind energy solicitation schedule in the nation."





Union county college

Essex County College

Borough of Manhattan
Community College

Union County College

Kingsborough
Community College

Middlesex County
College - Billy Johnson...

Middlesex
County College

Brookdale Community
College- Northern...

Brookdale
Community College

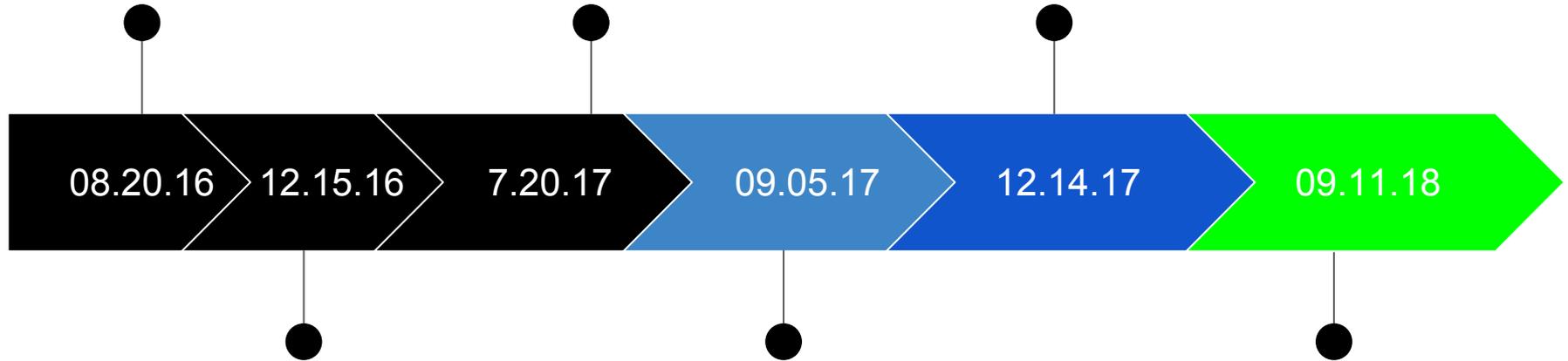
Center for Admissions
and Registration

Brookdale
Community College

ESIP Summer Meeting
2016: Climate Literacy
Collective Impact-Develop
a Strategy

Climate Change
Education Effective
Practices
Interviews

2017 AGU Fall Meeting workshop in New
Orleans: Building Strategies for Cities to
Address Climate Change With Climate
Literacy Cross-Sector Collaboration



2016 AGU Fall Meeting workshop:
Increasing Our Capacity to
Address Climate Change Through
Collective Impact

Climate Education and
Opportunities Collective
Impact Summit in
Sundance Utah

Accelerating Climate Action:
A Workshop for Community
and Education Leaders in
San Francisco



areas of work

- English Language Learning
- Healthy, Safety, & Wellness
- Literacy
- Schools, Districts, & Sites
- Science, Technology, Engineering & Mathematics
- Special Education
- Standards, Assessment, & Accountability
- Teachers & Leaders

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GLOBAL CLIMATE ACTION SUMMIT

EDUCATION

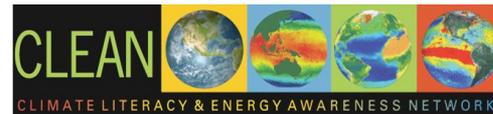
This workshop will be a forum for community, business, and education leaders to showcase and explore models that build social will and capacities needed to assist communities and businesses in reaching the net zero emissions by 2050 needed to achieve the Paris Agreement's aspiration for a 1.5 degree world. Participants will work together to develop options for integrating climate change education, community engagement, and workforce development activities into local climate action plans with the goal of accelerating and supporting place-based climate solutions.



Photo credit: James Callahan

Workshop Supporters

This event is primarily supported by the National Science Foundation-funded Climate Change Education Partnership (CCEP) Alliance and National Oceanic and Atmospheric Administration, in coordination with the Climate Literacy and Energy Awareness Network (CLEAN). The organizers are joined by colleagues from across the nation's climate education community who have synthesized a decade of federal agency and philanthropic literacy initiatives to support the event's outcomes.



Workshop Planning Committee

Billy Spitzer, PhD, Vice President - Programs, Exhibits, and Planning, New England Aquarium

Andrea Gingras, BS, Manager, Ocean Sciences Education, Inner Space Center, University of Rhode Island

Kristen Iverson Poppleton, MS, Director of Programs, Climate Generation: A Will Steger Legacy

Frank Niepold, MSED, Climate Education Coordinator, NOAA Climate Program Office, Climate Literacy & Energy Awareness Network, Co-chair

Gail Scowcroft, PhD, Associate Director, Inner Space Center, University of Rhode Island

Elena Sparrow, PhD,, Education Outreach Director, International Arctic Research Center (IARC)

Oliver Sellers-Garcia, Director, Office of Sustainability and Environment, City of Somerville

Mil Niepold, Founder and President, The Mara Partners

Sarah Schoedinger, Senior Program Manager, NOAA Office of Education

Anne Gold, Director, CIRES Education & Outreach, Climate Literacy & Energy Awareness Network, Co-chair

Malinda Chase, Tribal Liaison, Alaska Climate Science Center, International Arctic Research Center

Christina Nicholson, Director, Environmental Impact, Sustainable Innovation, Global Sustainability, Gap Inc

CLEAN Network Interns

Haley Crim

Haley Crim is an intern with the New Knowledge Organization and a rising senior at Bates College in Maine. She is majoring in environmental studies and minoring in physics and Russian.



Silas Swanson

Silas Swanson is a Sophomore Earth and Environmental Engineering major at Columbia University, and member of Youth Climate Advisory Board Member at The Wild Center



Samaa Eldadah

Samaa Eldadah is a senior at Sandy Spring Friends School. She is a goal-oriented and team-minded worker. Her interests include policy, advocacy, and education.



The Objectives

Supporting Action

Explore how climate change education, community engagement, and workforce development programs are assisting communities in their ambitious climate action goals for the coming decades; and

Community Collaborations

Identify how community and business leaders can work with climate change education professionals to meet the goals of local and regional climate action plans.

Panel I: The Private Sector - Innovative Partnerships to Accelerate Implementation of Climate Action Plans

(Moderator, Mil Niepold)

Objective: Using the power of example to inspire new partnerships between the private sector, communities/municipalities, and education professionals that will accelerate implementation of climate action plans in synergistic ways

Panelists:

1. Maura McKnight, Executive Director, Business Council on Climate Change
2. Sasha Radovich, Director of our PACE Personal Advancement, Gap, Inc.
3. Brent Habig, Vice-President, International Programs, Institute for Sustainable Communities





ACTIVE
MANAGEMENT STRATEGIES

WORKFORCE SKILLS
DEVELOPMENT

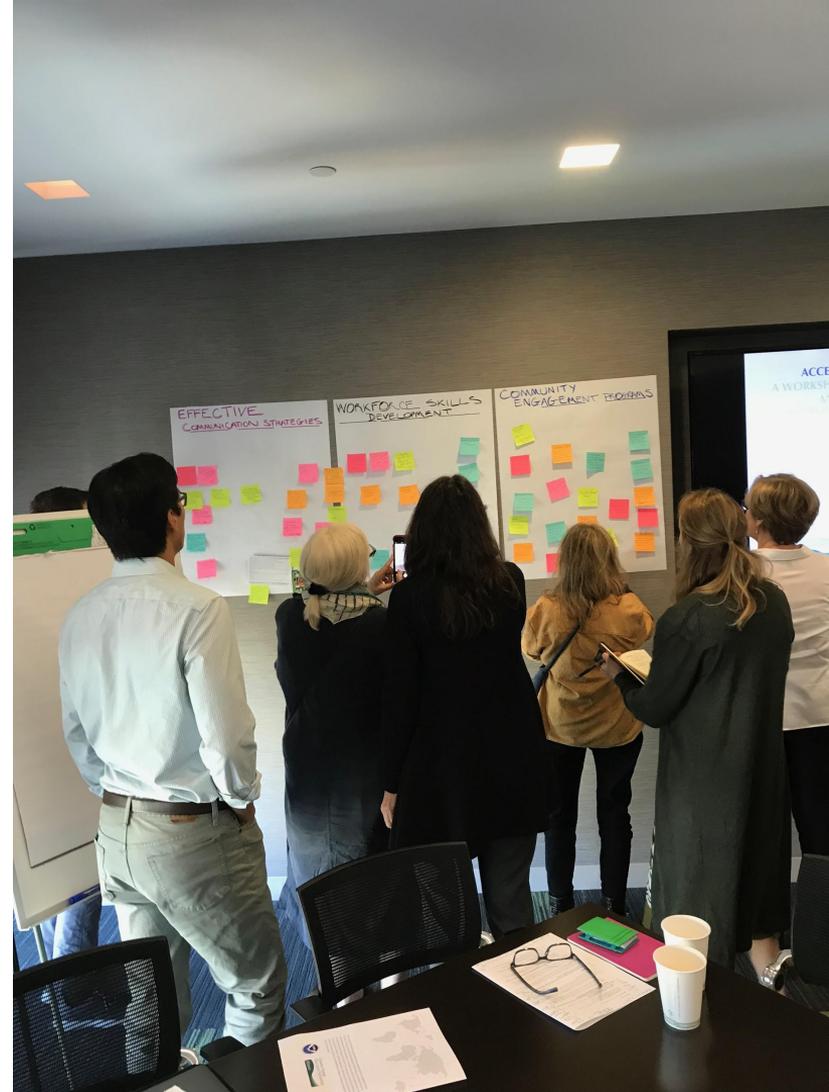
COMMUNITY ENGAGEMENT
PROGRAMS



Resource Matching Gallery Walk : Interactive Session

Session Objective: To showcase the current array of existing educational tools, strategies, and models and offer participants the opportunity to match their needs to various tools and resources based on survey results.

(Participants will review the posted, thematically grouped survey results, that are related to what participants indicated they were aiming to achieve locally in the coming year as they address climate change and implement climate action plans.



EFFECTIVE
COMMUNICATION STRATEGIES

WORKFORCE SKILLS
DEVELOPMENT

COMMUNITY
ENGAGEMENT PROGRAMS



FORCE SKILLS DEVELOPMENT

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TOOLKIT
to
Plan a
Youth Climate
Summit

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Abilities to
document
...
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Free field
trips +
programming +
family nights @
GI Academy

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Framework for
an Education
Program that address
reducing our
Carbon Emissions
reducing childhood
obesity

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Provide professional
development +
training for
community leaders

Local Government
Climate Action
Plan (LACAP)

interdisciplinary,
cross-sector
climate projects
include schools

Polar Trek.com
- lessons, videos
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Climate change
Tours
Michel

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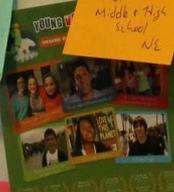
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Short videos
about how to
take action re
climate friendly
lifestyle

Design
Thinking
Framework
for
Middle + High
school
NE

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Climate Education
Partners
www.sandiego.edu/climate

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Panel II: Community Leaders – Partnering to Implement Change

(Moderator: Gail Scowcroft)

Objective: To highlight the diverse partnerships that are needed to build social momentum to ensure community climate action successes and offer the nuts and bolts of how education can support communities

Panelists (pending confirmation):

1. Garrett Fitzgerald, Strategic Collaboration Director, Urban Sustainability Directors Network
2. Malinda Chase, Tribal Liaison, Alaska Climate Science Center
3. Enei Begaye, Executive Director, Native Movement
4. Oliver Sellers-Garcia, Director, Office of Sustainability and Environment, Somerville







ACCELERATING CLIMATE ACTION

ACCELERATING CLIMATE ACTION
WORKSHOP FOR COMMUNITY, BUSINESS,
AND EDUCATION LEADERS
A PART OF THE GLOBAL CLIMATE ACTION SUMMIT
September 11, 2018
WestEd Headquarters
San Francisco, CA

The global action strategy

Workshop for Community, Business, and Education Leaders

Lightning Round: Education Leaders as Partners

(Moderator: Billy Spitzer)

Session Objective: To give city, community and company leaders practical guidance on how to integrate education throughout a community and how this accelerates action on climate – while leveraging what everyone does best (further building on the Resource Matching exercise from the morning)

Represented initiatives (4 minutes each):

- William S. Spitzer, Ph.D., Vice President - Programs, Exhibits, and Planning, New England Aquarium, National Network for Ocean and Climate Change Interpretation (NNOCCI)
- Michel A. Boudrias, Ph.D. Associate Professor, Environmental and Ocean Sciences, University of San Diego, Climate Education Partners
- Carey Stanton, Senior Director for Education and International Marketing, National Wildlife Federation, Eco-Schools
- Cyane Dandridge, Strategic Energy Innovations Energize Schools
- Jen Kretser, Director of Programs & the Youth Climate Summit Initiative, The Wild Center
- Reb Anderson, Director of Education, Alliance for Climate Education
- Lauren Friedman or Stephanie Thornton, Grid Alternatives
- Ann Reid, Executive Director, National Center for Science Education
- Art Sussman, WestEd, Pacific Climate Education Partners

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Accelerating Climate Action: A Workshop for Community, Business, and Education Leaders



Affiliate Event of the Global Climate Action Summit

This workshop is a forum for community, business, and education leaders to showcase and explore models that build social will and capacities needed to assist communities and businesses in reaching the net zero emissions by 2050 needed to achieve the Paris Agreement's aspiration for a 1.5 degree world. Participants will work together to develop options for integrating climate change education, community engagement, and workforce development activities into local climate action plans with the goal of accelerating and supporting place-based climate solutions.

Workshop objectives are to:

- Explore how climate change education, community engagement, and workforce development programs are assisting communities in their ambitious climate action goals for the coming decades; and
- Identify how community and business leaders can work with climate change education professionals to meet the goals of local and regional climate action plans.

Case Studies

- [Education to Support Informed Decision Making by Key Influential Community Leaders, Climate Education Partners](#)
- [Building Capacity for Productive Public Engagement, NNOCCI Program](#)
- [Youth at the Helm of Building Community Climate Empowerment, The Wild Center](#)
- [Empowering Communities through Workforce Development, GRID Alternatives](#)
- [Comprehensive Workforce Development for Social and Environmental Justice, Solar One](#)
- [Community Transformation through Youth Leadership, Strategic Energy Innovations \(SEI\)](#)

Education Supporting Community Climate Action Case Studies



Comprehensive Workforce Development for Social and Environmental Justice

Solar One's Green Workforce Training Program and Green Design Lab Program

Solar One delivers environmental education programming to New Yorkers of all ages through five distinct programs aimed at different audiences. The organization was founded in 2004 to manage Stuyvesant Cove Park- an all native plant park located on the banks of the East River in Manhattan, but has since grown into a multifaceted renewable and energy efficiency education operation. In addition to their workforce development programs, Solar One has installed over 2 megawatts of photovoltaics on low income housing in New York City, become a central coordinator of citywide and regional climate and energy discussions, set in motion the construction of a state of the art environmental education center, and continued to manage and improve the park that was their birthplace. Solar One is supporting NYC's climate action plan by implementing high impact actions that accelerate near-term greenhouse gas (GHG) reductions.

“Increasing the sustainability of New York City’s systems is of critical and growing importance. Solar One’s Solar Schools and Career and Technical Education Programs bring our solar program to life for school communities in an engaging way, connecting the benefit of resilient infrastructure with the value of career preparation. Green jobs have earned a place on the radar of our youth, and we are thrilled that Solar One strongly supports student learning and leadership in this workforce development!”

Meredith McDermott, Director of Sustainability, NYC Department of Education





Daisy Meyer
Workforce Development Manager
GRID Alternatives



Cyane Dandridge is the Founder and Executive Director of Strategic Energy Innovations (SEI)

Panel III: Funding and Resource Models for Climate Action Implementation

(Moderator: Frank Niepold)

Session Objective: To highlight new approaches to funding and project resourcing, taking into account the value of synergy [research, development, demonstration, and deployment (RDDD)] alongside philanthropic and traditional financing of community based education, engagement, and workforce development supporting climate actions.

Panelists (pending confirmation):

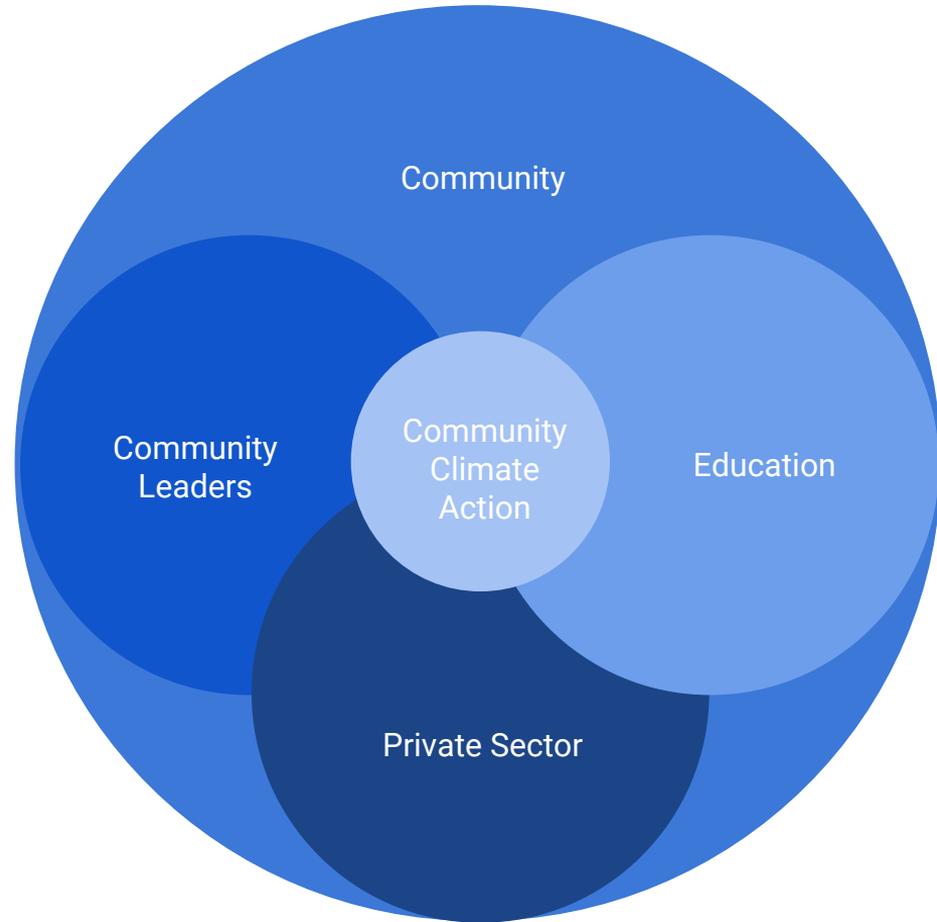
1. Carrie McDougall, NOAA Office of Education
2. Jason Morris, Pisces Foundation
3. Guy Williams, Detroiters Working for Environmental Justice





Key Solution to Sustained Climate Actions

Effective climate change education, civic engagement, and workforce development are critical for communities to reach their climate action goals. The event confirmed that education can support community leaders by **building social will, making solutions visible** and **create the capacities needed to support communities** so they can seize the opportunities of a post-carbon and climate resilient future.



Education: Key to Long-Term Climate Action Success

September 12, 2018 | Exploratorium, San Francisco





Panel Three
Cross-Sector Partnerships Elevating the Role of Education in Climate Action

 Frank Magallon Executive Director Green Climate Foundation Executive Director Green Climate Foundation	 Steve Galvin Director of Sustainability and Innovation at Microsoft	 Beth Kallman Executive Director at Microsoft	 Nathaniel Rich Author of The New York Times Magazine
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GLOBAL CLIMATE

15

14

ESSENTIAL LINKS FROM CLIMATE ACTION PLAN



#GiveYouthAChance –
Climate Action Philanthropy
Bay Aquarium in San Francisco
14th September





An aerial photograph of San Francisco at sunset. The sky is a mix of orange, yellow, and blue. The city's skyline is visible, with many skyscrapers illuminated with lights. The Golden Gate Bridge is visible on the left side. In the foreground, there are residential buildings and streets. A black rectangular overlay is centered in the image, containing the text "GLOBAL CLIMATE ACTION SUMMIT" in white. The word "GLOBAL" is on the top line, "CLIMATE" is on the second line, and "ACTION SUMMIT" is on the third line. A colorful globe icon is positioned between the "O" in "GLOBAL" and the "B" in "GLOBAL".

**GLOBAL
CLIMATE
ACTION SUMMIT**

Accelerating Climate Action: A Workshop for Community, Business, and Education Leaders

Report coming soon

<http://ccepalliance.org/accelerating-climate-action-workshop/>

Check out the **Climate Education and Opportunities Collective Impact Summit** Report

<http://ccepalliance.org/collective-impact-summit/>