

RENEWABLE

PROGRAM REPORT 2012

SOLAR-POWERED ARTS FES



Office: 212.505.6050 Email: info@solar1.org Web: www.solar1.org

Solar One / Stuyvesant Cove Park 24-20 FDR Drive Service Road East NYC 10010

Solar One / Administrative Office 37 West 26th Street, Suite 209 NYC 10010

Solar One Lab 11-17 43rd Avenue Long Island City, NY 11101

> Solar One is a 501(c)3 not-for-profit organization and partner of the Community Environmental Center (CEC), the largest not-for-profit weatherization organization in New York State. Solar One would like to offer our utmost thanks to CEC for all their assistance and support.

TABLE OF CONTENTS

INTRODUCTION	OUR PROGRAM	1S OU	R SUPPORTERS
04 DIRECTOR'S LETTER	10 K-12 EDUCATIO	N 25	BOARD & STAFF
06 SOLAR ONE STATS	12 ARTS & EVENTS	27	MAJOR FUNDERS
08 LOCATION MAP	14 ENERGY connections	28	PARTNER ORGANIZATIONS
	16 HURRICANE SA	NDY 29	SPEAKERS & PERFORMERS
	18 STUYVESANT C PARK	DVE	
	20 THE SOLAR SAM Project	IDY	
	22 WORKFORCE		
	24 SOLAR 2 HIGHL	IGHTS	

LETTER FROM THE DIRECTOR

March 27, 2013

2012 may go down in history as the year when the changing environment finally got our attention in a really big way. From record temperatures to record storms, the message just keeps getting louder and clearer: Human activity really is affecting our planet in unprecedented ways, and we must work together to come up with the best ideas for how to respond.

At Solar One, we found ourselves grappling with this in a very clear and present way when Sandy swept over our site, downing trees and drowning plants, flattening our storage sheds, demolishing our stage, porches and ramps and filling our little solarpowered building with about two feet of filthy water.

But despite all that, our battery-backed solar array was still working, and we were able to get our lights back on right away. By the next day, Solar One was serving the community by allowing our neighbors to charge their computers and cell phones so that they could connect with their loved ones days before power was restored to the rest of the neighborhood. I think that speaks volumes about the need for environmental education, for solar technology and for innovative strategies to renew our city.

Even as we were lending a helping hand to our neighbors in need, Solar One also attracted hundreds of volunteers who came to Stuyvesant Cove Park to help us clean up and prepare the Park for the winter season, and thousands of dollars in donations from friends and supporters who enthusiastically stepped up. And while all this was happening, we were able to launch the Solar Sandy Project and, with our partners SolarCity, Consolidated Solar, NYSERDA and HSBC, deploy 10 mobile solar generators to some of the hardest-hit neighborhoods, such as the Rockaways, Staten Island's Midland Beach community, Union Beach, NJ and Red Hook, Brooklyn.

But even before Sandy hit, Solar One was having an extraordinary year: Our Green Design Lab in-school education program received funding from the National Science Foundation and the Rockefeller Foundation to create an advanced high school curriculum focusing on cleantech, the burgeoning job sector that marries sustainability and technology. And speaking of cleantech, our Clean Energy Connections panel series produced nine events in 2012, seen live by hundreds and online by thousands of people around the country and around the world who are interested in this innovative work. In the Whole Buildings Tenant Education Program, we reached over 150 residents and building staff in 23 low-income buildings across the city. Our Workforce training program helped prepare 496 underemployed people looking for a new lease on life with green skills training. Our Arts and Park programs attracted thousands of audience members, volunteers and nature lovers to our sustainably managed, native plant park and solar-powered stage, which showcased 124 performers, up from 92 in 2011.

As we begin our ninth year of programming, it's gratifying to see how far we've come and how much there still is left to do! Please keep track of the work we're doing by visiting us online at solar1.org or in person at Stuyvesant Cove Park. We could never accomplish all we have without your active support and participation, for which we continue to be eternally grateful.

Sincerely,

Christophy Alalim

Christopher Collins EXECUTIVE DIRECTOR

SOLAR ONE

PEOPLE REACHED BY ALL PROGRAMS



755 EVENTS HELD



132,362 PEOPLE REACHED BY MARKETING & OUTREACH

3,002 Social Media Fans

K-12 EDUCATION



3,848 GDL STUDENTS



157 GDL CLASSES TAUGHT



28 GDL SCHOOLS

100 ACTIVE NETWORK SCHOOLS



201 TEACHERS IN GDL PROFESSIONAL DEVELOPMENT TRAINING

2,777 ENRICHMENT STUDENTS



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2,117 STUDENTS IN ASSEMBLIES



360 PARENTS AT PARENT EVENTS

ARTS & EVENTS

†††

7,610 ARTS & EVENTS ATTENDEES



24 SOLAR POWERED EVENTS HELD



124 ARTISTS PRESENTED



5 NUMBER OF FAMILY DAYS

ENERGY CONNECTIONS

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100,000+ PEOPLE REACHED THROUGH MARKETING & SOCIAL MEDIA



179 MEETINGS & REFERRALS



84 PUBLIC EVENTS



6 NEW PARTNERSHIPS FORMED



28,761 ATTENDEES AT PUBLIC EVENTS



19 WHOLE BUILDINGS WORKSHOPS



150 STUDENT RESIDENTS

STUY COVE PARK



3,409 VOLUNTEER HOURS



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1,366 NEW PLANTS



3 NEW SPECIES



55,000+ JOGGERS, BIKERS, STROLLER-PUSHERS AND OTHER VISITORS

THE SOLAR SANDY PROJECT



10 GENERATORS



17 Locations



44 DAYS OF DEPLOYMENT

WORKFORCE



326 INDIVIDUALS TRAINED



496 SOLAR ONE CERTIFICATES OF COMPLETION



7 PARTNER ORGS



2012 PRESS

DNAINFO: GDL ENERGY CHALLENGE, EDUCATION

VILLAGE VOICE: MODEL BLOCK CONFERENCE, ENERGY CONNECTIONS

NY TIMES: SOLAR SANDY PROJECT, ENERGY CONNECTIONS

DNAINFO: SOLAR SANDY PROJECT, ENERGY CONNECTIONS

FORBES: SOLAR SANDY PROJECT, ENERGY CONNECTIONS

WNYC: SOLAR SANDY PROJECT, ENERGY CONNECTIONS

NY1: SOLAR SANDY PROJECT, ENERGY CONNECTIONS

NY1: SUN TO STARS, ARTS & EVENTS

TIME OUT NY: SUN TO STARS, ARTS & EVENTS

DNAINFO: SUN TO STARS, ARTS & EVENTS

BROOKLYN

STATEN \

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NEW JERSEY

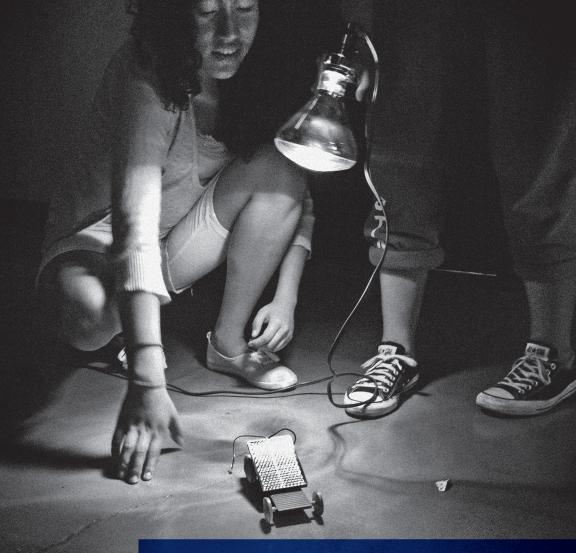
WHERE WE WERE IN 2012

THE BRONX

QUEENS

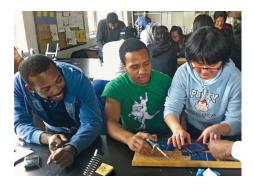
Education Energy Connections Workforce Solar Sandy Project





K-12 EDUCATION

3,848 Green Design Lab™ students
157 Green Design Lab™ classes in 28 schools
100 Active Network schools
201 Teachers in professional development trainings
2,777 Students at enrichment and science fairs/events



GREEN DESIGN LAB™

The school building is the logical place to start when teaching kids about sustainability and the environment. Solar One's Green Design Lab (GDL)[™] is an intensive curricular blueprint for greening a school by teaching sustainability and Science, Technology, Engineering and Math (STEM) skills through dynamic, hands-on activities and projects. Conducted in partnership with the NYC Department of Education, GDL was taught in 28 schools around the city in 2012 - reaching a total of 3.848 students. Solar One kicked off its new Sustainable Schools Network, which actively engaged 100 additional schools through a wide range of sustainability programming including professional development workshops and curriculum resources for 201 teachers. For the 2012 GDL Energy Challenge, a 6-month period during which schools competed to reduce their electricity consumption, schools' average energy use declined by 8.1%, and our winning school reduced its energy use by more than 20%.

CLEANTECH

In 2012, with support from the National Science Foundation and The Rockefeller Foundation, Solar One began developing an advanced curriculum for high school students - Cleantech - that actively engages students in emerging technologies, sustainable design, problem solving and innovation. Cleantech is designed to inspire the next generation of green engineers, scientists, architects, building system managers, energy auditors, economists, and entrepreneurs. The curriculum, which includes dozens of activities and was developed with the help of an advisory board of cleantech professionals, was piloted in two NYC high schools. Ten students from these schools received internships with local green sector employers where they conducted energy audits and made recommendations for reducing energy use.

ENRICHMENT EDUCATION

Solar One offers short-term 1-3 session enrichment programs for both public and private K-12 students. Lessons include exploring the East River waterways and the Oyster Garden in Stuyvesant Cove, designing and building projects like solar cars and small wind turbines, and creating 3-D models that reimagine schools as green buildings with features like solar power, water recycling and green roofs. In 2012, the Education staff delivered 67 Enrichment classes to 1,627 students.

ARTS AND EVENTS

24 Solar Powered Events
5 Family Days
124 Artists performing and presenting
7,610 People attending arts programs and events at Solar One

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GREEN ENERGY ARTS FESTIVAL

Each summer, Solar One presents a series of solar-powered dance, music, and film events in Stuyvesant Cove Park. In 2012, the Solar-Powered Film Series featured Films That Move, a collaboration with the Dance Films Association that included live dance and music as well as film; and Eco-Docs, a set of new environmental documentaries. The 2012 Arts Festival also included music from local family jazz group The Rutkowski Trio & Friends, as well as a music program curated by the Stuyvesant Cove Park Association.

SUN TO STARS FESTIVAL OF MUSIC, DANCE AND CULTURE

Now in its seventh year, Sun To Stars has expanded from a five-hour concert focusing on South Asian performance to an eighthour extravaganza of events with performers from all over the world, including dance companies from the Philippines and Korea and music from Indonesia and Iraq in addition to our traditional presentation of South Asian dance and music. About 1,000 people came throughout the day and evening to enjoy this unique event.



OTHER EVENTS

In 2012 Solar One hosted more community and cultural events for children and adults than ever before. In addition to our longstanding partnerships with Loving Day, Crawfish NY and Rooftop Films, Solar One hosted events like Dance Your Values, a dance party for Ethikus' Shop Your Values Week; a live action circus brought to us by local theater group Fresh Ground Pepper; a kids-and-dads play event with Dads at Play; and the 24th edition of the Westside Cultural Center's Eco Fest. We also held five Family Days for local kids and parents with activities like making eco-art and humanpowered ice cream, doing catch-and-release fishing in the East River, and visiting with rescued animals. All together, more than 7,000 people visited Stuyvesant Cove Park to enjoy our Arts and Events programs.

Please see the Speakers and Performers section for a list of the dancers, filmmakers, musicians and other artists in the 2012 series.

ENERGY CONNECTIONS

17

100,000 people reached through social media & marketing
179 meetings & referrals
84 public events
28,761 attendees at public events
19 Whole Buildings workshops for 150 residents

ENERGY CONNECTIONS

As Solar One's public outreach program, Energy Connections provides information to New York residents and building and business owners about programs and incentives that can help them reduce their energy bills as well as their carbon footprints. Working with the New York State Energy Research and Development Authority (NYSERDA), the Energy Connections team creates partnerships, gives presentations and workshops, and disseminates materials at a variety of green events and festivals all over the city. In 2012, Energy Connections reached 28,761 people through 263 meetings and events. Solar One was selected as NYSERDA's new EDGE program contractor covering NYC, Long Island and Westchester County. EDGE focuses on promoting economic development by bringing knowledge about NYSERDA's programs to local communities to help New York State reach its goals for energy efficiency, renewable energy and environmental stewardship.

CLEAN ENERGY CONNECTIONS

Clean technology or "cleantech," one of the fastest-growing industry sectors, combines cutting-edge clean energy technologies with innovative funding models. In 2011, in partnership with NYC ACRE, Solar One launched the Clean Energy Connections panel series as a way for cleantech professionals to meet and share information. In 2012, the series grew by leaps and bounds, attracting 1,022 in-person attendees – almost double the



number from 2011 – and an additional 1,296 livestream viewers, 15,000 article views and 5,300 views of the online archive. Topics covered in the 2012 series included smart buildings, collaborative consumption, data capitalization, new energy efficiency technologies, cleantech financing and the future of the US energy industry in light of the 2012 election.

WHOLE BUILDINGS

Weatherization retrofits of low-income buildings performed by our parent company CEC – like the installation of new boilers and proper insulation – can reduce residents' energy costs significantly while substantially reducing the amount of greenhouse gases these building emit. But in order to maximize the benefits from these new systems, tenants must know how to take advantage of these energy- and money-saving opportunities. The "Whole Buildings" program held 19 workshops for tenants in 2012, reaching over 150 affordable-housing residents with information on actions they can take to create sustainable living environments.



HURRICANE SANDY

The Solar One site on the East River was hit hard by the hurricane and suffered considerable damages. Despite that, our solar array kept functioning while the rest of the city below 23rd Street remained dark. Within a few days after the storm, we had adapted our PV system to power a charging station for our neighbors, who were able to power their cell phones, laptops and even a nebulizer for a young boy with asthma. Solar One emerged as a community leader during the recovery and demonstrated the resilience of renewable energy.

STUYVESANT COVE PARK

418 Volunteers **3,409** Volunteer hours **1,366** New plants **3** New species **55,000+** Joggers, bikers, stroller-pushers, and other visitors

STUYVESANT COVE PARK

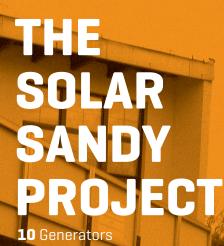
Located on the banks of the East River between 18th and 23rd Streets, Stuyvesant Cove Park is a 1.8-acre jewel of a sustainably-managed, native plant park. Home to a wide variety of wildlife including seafowl, butterflies and birds, the Park also provides fruits, shade and beautiful views of the river and the Brooklyn and Queens waterfronts to the more the 55,000 visitors who walk, skip, stroll or bike through during the summer months. Ten years after it first opened, the Park is lusher and more beautiful than ever, with over a hundred species of native wildflowers, grasses, shrubs and trees.

SUPERSTORM SANDY

After Hurricane Irene in 2011, we thought the Park had seen the worst weather possible. But in October 2012, Superstorm Sandy pummeled the Park with a storm surge more than 10 feet high, which swept over the bulkheads, through the Park and under the FDR Drive - leaving the neighborhood flooded and without power. The Park beds were filled with filthy, brackish water and debris, and the force of the storm surge uprooted trees, destroyed the Solar 1 stage and storage sheds, dumped large amounts of trash everywhere and flooded our solarpowered building. When the staff returned to the Park on Tuesday October 30 to survey the site and start cleaning up, the damage seemed overwhelming.



However, we were very lucky. Almost immediately after the disaster, volunteers began flocking to the Park and the Solar 1 site to help clean up and make repairs. Several hundred people of all ages and from all over the city pitched in by collecting trash, shoring up trees, and cutting up and clearing out some of the very large pier pilings that washed up in our plant beds. A mere two weeks after Sandy, while many city parks were still assessing their damage and figuring out how to move forward, Stuyvesant Cove was looking pretty good: trees secure, new topsoil and mulch put down, ready for winter. This spring we'll be testing the soil for salinity and doing a lot of re-planting!



10 Generators **17** Locations

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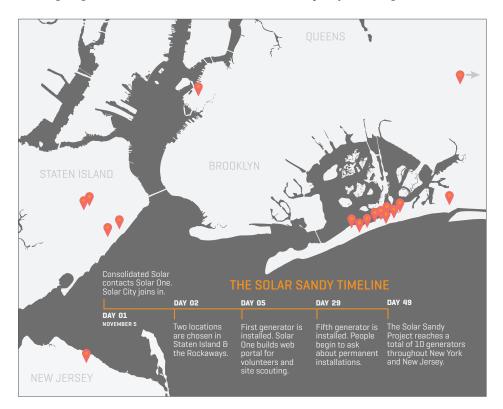
OCCUPY SANDY

THE SOLAR SANDY PROJECT

The Solar Sandy Project was a joint effort by Solar One, Solar City, and Consolidated Solar to bring 10 kW mobile solar generators to areas devastated by Superstorm Sandy. Starting with a phone call and Facebook post, the Solar Sandy Project snowballed into a major effort that provided solar-powered electricity to community gathering places and relief centers without power. With these solarpowered generators, survivors and relief workers charged cell phones, powered lights, ran laptops, and even hosted a 500-person Thanksgiving dinner. Over the course of 44



days, the Solar Sandy Project used 10 generators to supply solar-powered electricity to 17 sites in the Rockaways, Brooklyn, Staten Island, New Jersey, and Long Island.



WORKFORCE

7 Partner organizations 38 Courses delivered 326 individuals trained 496 Solar One Certificates awarded

WORKFORCE

Solar One's Workforce Training Program helps prepare chronically un- and underemployed individuals for jobs in the green economy. Trainees are able to take classes when they participate with one of our workforce agency partners like STRIVE International, the Fortune Society, Sustainable South Bronx and Non-traditional Employment for Women (NEW).

WORKFORCE TRAINING COURSES

In 2012, Solar One trained 326 individuals from various workforce agencies through 38 courses and awarded 496 Certificates of Completion (some trainees earned more than one certificate).

2012 COURSES:

Green Buildings Operations & Maintenance (New!) Electrical Retrofitting Green Construction BPI Building Analyst Building Performance Energy Auditing Solar Photovoltaic Installation



Solar One's new course in Green Buildings Operations & Maintenance trains candidates in skills for gaining entry-level employment as building operators. Students learn how to keep buildings operational and energy efficient. With a strong emphasis on optimizing heating and cooling systems, the course also focuses on water conservation, recycling, green cleaning, and sustainable practices in painting, carpentry, plumbing, electricity, and pest management.

NEW TRAINING LAB

Solar One moved to a brand-new training lab in Long Island City with 3 classrooms and space to support a wide range of handson training. With generous support from NYSERDA, Solar One was able to outfit its new lab with state-of-the-art equipment to support its wide array of courses.

SOLAR 2

A Cutting-Edge Demo of Sustainable Design and Clean Technology



Solar 2 will qualify as the first LEED Platinum, energy-positive demonstration facility in any major U.S. city. As a building utilized by thousands of people each week yet powered primarily by the sun, Solar 2 will set a new standard for buildings in New York City and the region.

A GREEN ENERGY, ARTS & EDUCATION CENTER

Part of Solar One's mission is to provide environmental education programs in Stuyvesant Cove Park. Solar 2 is a key part of that mission. Conceived as a space for public programs from educational workshops to arts events to visitor tours, Solar 2 will have permanent and changing exhibits on sustainability topics of local significance. It will feature a vast solar photovoltaic array, an open mechanical room, a demonstration of geothermal systems, and a Green Theater for solar-powered outdoor arts events. Solar 2 will also host classes, workshops, panel discussions, and other education programs for K-12 students, the general public, and professionals. Solar 2 will create a unique attraction for residents and visitors alike.

SUSTAINABLE-POWER, ENERGY-EFFICIENT SYSTEMS

Solar 2 will display dozens of sustainable engineering and design components, many of which will be accessible to visitors. Solar 2's power will come from a large, rooftop photovoltaic array that will be visible from the FDR Drive. The building will be partially heated with passive solar daylighting during the winter, while a vegetative green screen will help keep the building cool in summer. Among its many other energy- efficient features are a green roof, ventilation systems that maximize wind use, and windows that save energy by retaining optimal indoor temperature.

2012 BOARD & STAFF

BOARD OF DIRECTORS OFFICERS Richard Cherry, CHAIR Ellen Witzling Roff, TREASURER MEMBERS Katherine Boden William Browning Jane Crotty Virginia Davies Donna DeConstanzo H. Hartley du Pont Sara Queen Eric Siegel Thor Thors

Khadijah Frederick, EDUCATION ADMINISTRATION Anna Bakis, INSTRUCTOR Sashti Balasanduram, INSTRUCTOR Shelley Berlincourt, INSTRUCTOR Asunta Del Bello, INSTRUCTOR Zach Ippolito, INSTRUCTOR Jessica Shreefter, INSTRUCTOR Alex Dolan, INTERN Tenzin Jangchup, INTERN

ARTS & EVENTS

Dina Elkan, director, arts & events Dena Ayzikovich, intern Christine Croasdaile, intern Shiloh Frederick, intern Catherine Moskos, intern

WORKFORCE

Michael Johnson-Chase, DIRECTOR, GREEN WORKFORCE TRAINING Ismail Ocasio, ASSISTANT DIRECTOR FOR TRAINING James King, TRAINING SITE MANAGER Joshua Vedder, GREEN BUILDING INSTRUCTOR Anthony Alexander, INSTRUCTOR R. David Gibbs, INSTRUCTOR Paul Cortapasso, LAB ASSISTANT Craig Mitchell, LAB ASSISTANT Earnest Peterson, LAB ASSISTANT Emmanuel Martinez, INTERN

EXECUTIVE

Christopher Collins, EXECUTIVE DIRECTOR Esther Siskind, DIRECTOR OF PROGRAMS

EDUCATION

Sarah Pidgeon, DIRECTOR, NYC K-12 EDUCATION Dawne Adams, ASSISTANT DIRECTOR FOR HIGH SCHOOL PROGRAMS Joe Chavez, ASSISTANT DIRECTOR FOR SUSTAINABILITY Fronsy Thurman, ASSISTANT DIRECTOR FOR INSTRUCTION Jauna Johnson, EDUCATOR Alex Smith, EDUCATOR

2012 BOARD & STAFF CONTINUED

STUY COVE PARK

Daisy Hoyt, PARK MANAGER Jordan Aponte, GARDENER Chris Fowler, PARK MAINTENANCE Nokossan Camara, INTERN Baba Fousseni, INTERN Asha Gharib, INTERN Johany Merejo, INTERN

ENERGY CONNECTIONS

Max Joel, director, energy connections Sara Jayanthi, senior outreach coordinator Jeff Irvine, outreach coordinator Gary Smith, tenant education program coordinator Brendan Blank, intern Ariana Vito, intern

DEVELOPMENT

Lawrence Horne, director of development Sarah Holloway, senior development consultant Maya Brym, grant writer Abby Morse, grant writer James Ryan, external affairs consultant

MARKETING

Angela Tran, GRAPHIC DESIGN

OPERATIONS

Helen Hooke, FISCAL MANAGER Marc Brodeur, OPERATIONS MANAGER Linda Lagomarsino, ADMINISTRATIVE ASSISTANT Jamie Paquette, OPERATIONS CONSULTANT Roberto Rodriguez, IT CONSULTANT Stephanie Morales, INTERN

MAJOR FUNDERS

11th Hour Project, Schmidt Family Foundation ASK Construction Bank of Tokyo-Mitusbishi UFJ Foundation Bollinger Inc. **Broadway Stages Brookfield Properties** Colgate-Palmolive Community Environmental Center (CEC) Con Edison Constellation Energy Crystal Windows & Doors Christian DiPalermo Emerald Cities Collaborative Fairbairn Family Foundation FJC Foundation Gelman Pension Consulting Greenacre Foundation Grenadier Realty Diane Habig HANAC Inc. Hartz Mountain Industries Hazen & Sawyer HDR Engineering HSBC Bank USA, N.A. Terry Hueneke & Michael Ross Valerie Jennings J.C. Kellogg Foundation Perry Koplik Margo M. Langenberg Laura Jane Musser Fund

Eric C. Lee McKissack & McKissack Mertz Gilmore Foundation Melissa & Chappy Morris National Science Foundation Natural Resources Defense Council NYC Council District 3 NYC Council District 4 NYC Council District 24 NYC Council Manhattan Delegation New York Community Trust New York State Energy Research & Development Authority (NYSERDA) NYS Department of Environmental Conservation NGEN Partners North Star Fund O'Connor Davies Munns & Dobbins Pinkerton Foundation Pratt Institute **Quality Metal Stamping** Barbara & Irwin Rappaport Shawn C. Reeves **Riverdale Electrical Services Rockefeller** Foundation Ellen Witzling Roff Jean & Martin Shafiroff Dr. Robert C. & Tina Sohn Foundation SolarCity SolarX Energy Stuyvesant Cove Park Association

MAJOR FUNDERS CONTINUED

Lisa M. Sullivan Terrapin Bright Green Barbara & Donald Tober Foundation Turner Construction US Department of Housing and Urban Development Ward Family Foundation Leslie & Daniel Ziff Foundation

PARTNER ORGANIZATIONS

Build It Green NYC Community Environmental Center Comprehensive Development Inc. at Manhattan Comprehensive Consortium for Worker Education Cranksgiving Crawfish NY Dance Films Association Disposable Film Festival Eco Fest Ethikus Fourth Arts Block Friend's Seminary Global Kids Greenacre Foundation Green City Force Greener Media

Greentech Media Loving Day Lower East Side Ecology Center New York Cares NYC ACRE at NYU-Poly NYC Department of Education NYC Wildflower Week Nontraditional Employment for Women (NEW) The Osborne Society Riverkeeper **Rooftop Films** STRIVE International Stuyvesant Cove Park Association Sustainable South Bronx Time's Up **UN International School**

SPEAKERS & PERFORMERS

SUN TO STARS FESTIVAL OF

MUSIC, DANCE & CULTURE Nandini Chirimar Ehren Hanson Seung Min Song Joshua Ross Songhee Lee Sunjung Ahn Jungran Lee Jisun Lee Fiona Kim Simone Kim Michael Lipsey Joe Fee Nabeen Singha John Hoblin **Rich Weismantel** Hunyong Kim Sarah Mullins Patrick Kennedy Alida Torres Joseph Tucker Rujuta Vaidya Parul Shah Potri Ranka Manis Malaika Queano Angela Torregoza Cecille de los Reyes **Ronnie Bargayo** Guro Frank Ortega Sonali Skandan

Bala Skandan Njideka Emenogu Maya Kappil Poulomi Das Shruti Ramachandran Arun Ramamurthy Amali Premawardhana Sriram Ramesh Roopa Mahadevan

SOLAR-POWERED FILM SERIES

Rosemary Lee and Peter Anderson, BOY Vickie Mendoza, THE LAST MARTINI Marta Renzi, AQUA-BOOTY Conor Horgan and David Bolger, DEEP END DANCE Chisa Hidaka, TOGETHER Judy Dennis, THE DANCER FILMS Jane Ira Bloom Mark Helias **Bobby Previte** Hyunsuk Kim and Kyoungin Jung, THE OTHER Hazuki Homma Mayuna Shimizu Phil Buccellato, COMMON GROUND Steve Dorst and Dan Evans, SHATTERED SKY Peter Shapiro Bradford Reed Bill Benenson and Gene Rosow, DIRT! THE MOVIE

SPEAKERS & PERFORMERS CONTINUED

OTHER EVENTS

Legends of Jazz Melissa Nadel Paul Sachs Carolann Solobello Wool & Grant Sharon Goldman Evelyn Diamond Rutkowski Trio & Friends Drew Vanderburg The Cocoon Project Amazing Amy The New York City Street Players The Broken Box Mime Theater The Museum of Interesting Things The Whisker Sisters Pepper Jill & Jack Rachel Cole

WITH ROOFTOP FILMS

Vanessa Berlowitz Mark Brownlow Andy Byatt Huw Cordey Jonny Keeling Mark Linfield Pjotr Sapegin Mauricio Arango Alexander Yan Ülo Pikkov Hayoun Kwon Jens Assur Michael Beharie Jeff Cristiani Josiah Signor Alexandre Moors Stacie Passon Felipe Echavarria Andrew Mudge Aaron Schimberg Daniel Carbone Leah Meyerhoff Visra Vichit Vadkan Kimberly Levin Alex Meillier Stephen Silha and Eric Slade Oakley Anderson-Moore Mike Ambs Laura Checkoway Penny Lane and Brian Frye **Rodrigo Reyes** Benjamin Greené Bassam Tariq and Omar Mullick Nicolas Hudak and Anna Hudak Mike Romeo

SPEAKERS & PERFORMERS CONTINUED

CLEAN ENERGY CONNECTIONS

Domenic Armano, JOHNSON CONTROLS Izzet Bensusan, KARBONE Travis Bradford, FOUNDER, PRESIDENT AND DIRECTOR, THE PROMETHEUS INSTITUTE FOR SUSTAINABLE DEVELOPMENT Shaun Chapman, SOLARCITY Ann Davlin, CARBON WAR ROOM Tim Greeff, vice president for government AND POLITICAL AFFAIRS, ADVANCED ENERGY ECONOMY Nathanael Greene, NATURAL RESOURCES DEFENSE COUNCIL Michael Harrington, CON EDISON Shayle Kann, VICE PRESIDENT, RESEARCH, GREENTECH MEDIA Constantine Kontokosta, NYU SCHACK INSTITUTE'S CENTER FOR THE BUILT ENVIRONMENT David Mahfouda, WEEELS Ariella Maron, DEPUTY COMMISSIONER FOR ENERGY MANAGEMENT OF NEW YORK CITY Brian Merchant, MOTHERBOARD Michael Molnar, GREENTECH CAPITAL ADVISORS Jason Scott, eko asset management partners Sid Singh, BRIGHTFARMS Mark Smith, EFFICIENCY 2.0 Rick Thompson, GREENTECH MEDIA Andrew Wagner, KRRB Michele Wucker, president, the world POLICY INSTITUTE

WEMUSTHEED THIS WARNING AND ACT

OULCKLY TO SOLVE THECHIMATE CRISIS.

AL GORE