

# SOLAR ONE PROGRAM REPORT 2010

## EXPANDING OPPORTUNITIES

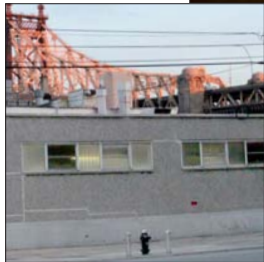
SOLAR ONE  
OFFICE



SOLAR 1  
CLASSROOM



SOLAR 1  
TRAINING LAB

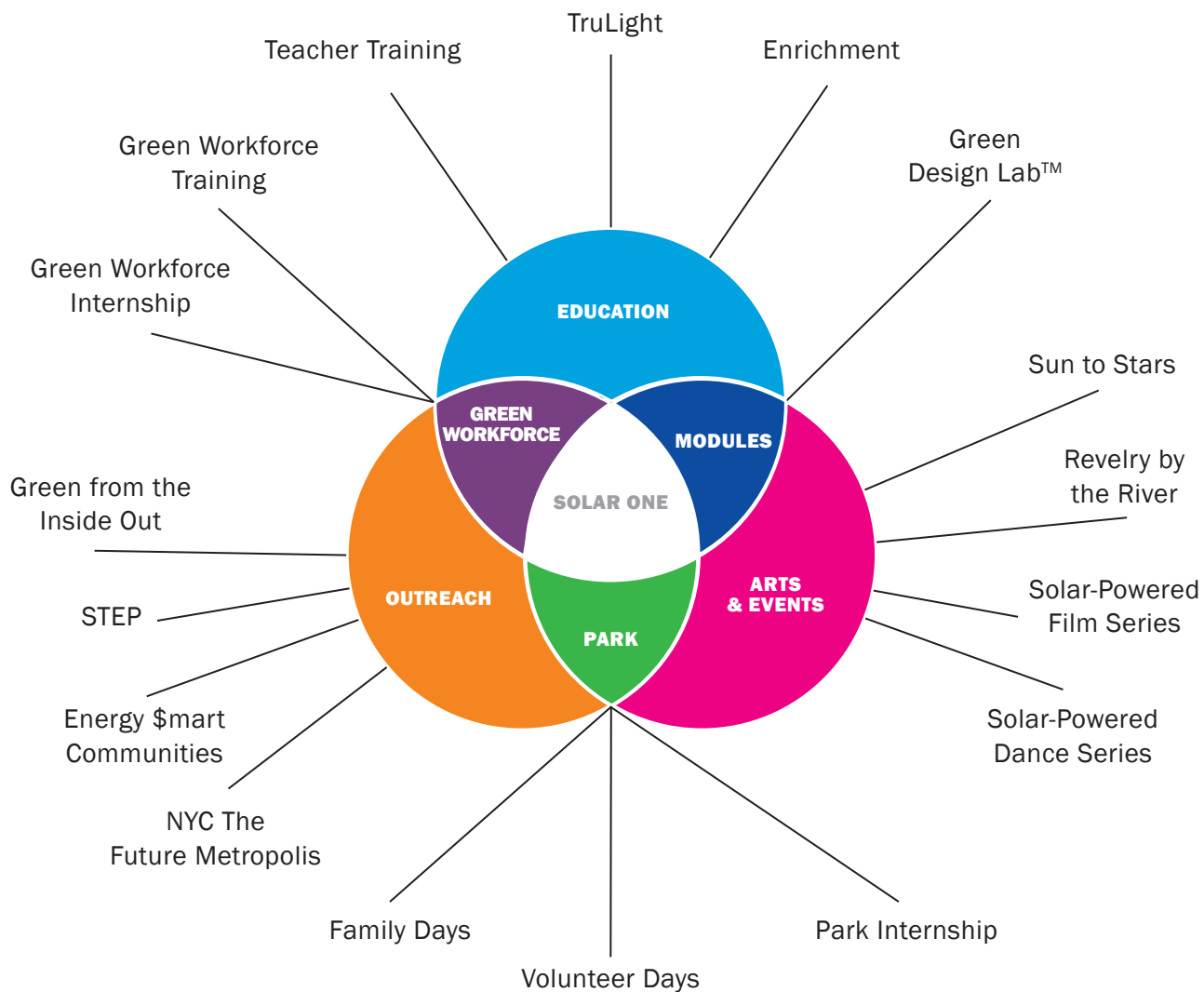


**SOLARone**

GREEN ENERGY, ARTS  
& EDUCATION CENTER

# SOLAR ONE PROGRAM REPORT 2010

## EXPANDING OPPORTUNITIES



**Report Content & Editing:**  
Jamie Paquette  
Melanie LaRosa  
Dina Elkan

**Art Direction & Design:**  
Angela Tran

**Assisted by:**  
Max Lerner

**This program report was  
printed locally on 100%  
recycled-paper.**

**All photography and images  
taken or generated by staff  
members of Solar One unless  
otherwise noted.**

---

# TABLE OF CONTENTS

HEADLINES .....4

DIRECTOR’S LETTER.....5

IMPACT ANALYSIS .....6

EDUCATION .....8

PARK .....12

GREEN WORKFORCE .....16

ARTS & EVENTS .....20

OUTREACH & PUBLIC EDUCATION .....24

SOLAR 2 FEATURE .....28

ACKNOWLEDGEMENTS.....32

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

---

# 2010 HEADLINES

## Green Workforce Training Program Reaches Over 1000 Students

Government support, an active and motivated network of workforce partners, and Solar One's highly dedicated Green Workforce staff combined in 2010 - growing this program to over 1,100 trainees from last year's 350.

## Revelry By The River Honors Arup, Platt Sisters

A stormy night couldn't keep us from celebrating another year of Solar One success at 2010's Revelry By the River. Special honorees Arup, who are working with us on Solar 2, as well as ambassadors for NYC solar power Laura Remington Platt and Ashley Wilcox Platt.

## Solar One Annual Budget Nears \$2 Million

A few years ago Solar One was a mere four staff people, working diligently out of a classroom-sized solar-powered facility in Stuyvesant Cove Park. My how we've grown - now with a staff of 30-plus and programs in all five boroughs, Solar One's programs and resources came within reach of the \$2 million mark this year.

## Solar One Places 10 Interns in Full-Time Green Jobs

Solar One took its training program in Green Workforce a step further in 2010, through a pilot job placement and wage-supported internship program with the NYC Human Resources Administration. Of 14 interns, 10 were placed in full-time green jobs - a pretty impressive ratio!

## New Interpretive Panels Installed in Stuyvesant Cove Park

We already know Stuyvesant Cove Park is beautiful - and now, it's a lot smarter and teaching the world as it goes by! Three new interpretive panels were installed in 2010, informing people of the Park's storied past and the inhabitants of its meadow-like design - all to educate the 50,000-plus bikers, joggers, stroller-pushers, and arts patrons who pass through the Park each year.

## 14th Street Y Partners With Solar One to Green Their Building

Green buildings are becoming more and more common - especially in NYC where buildings cause the majority of greenhouse gas emissions. Solar One was thrilled to help the 14th Street Y to find the available programs and incentives to complete the project.

## Green Design Lab™ Rolled Out to 10 Schools

Youth education is one of Solar One's founding purposes, but 2010 saw new breadth in our education program with the launch of the year-long, in-school curriculum the Green Design Lab™ in 10 New York City public schools, in partnership with the New York City Department of Education.

## Solar One Bids Adieu to Key Staff

2010 was a year of big changes in the Solar One staff: Park Manager Melissa McDonald, NYSEDA E&C Coordinator Diana Pangestu, Outreach and Advocacy Coordinator Chris Neidl and Operations Manager Jamie Paquette have all moved on to new horizons - some to green jobs in other sectors, some to babies, and some moving away from NYC entirely. We wish all of them the best of luck in their future endeavors.

## STEP Program Brings Energy Efficiency Lessons to 24 Low-Income Buildings

When Community Environmental Center wanted to add a tenant educational component to their weatherization work in low-income NYC buildings, they turned to Solar One. This enables tenants to understand how the new weatherization measures work to save money and energy for everyone and also learn about additional green changes they can make in their apartments, buildings and communities.

## Sun To Stars 2010 Most Successful Ever

Our 2010 Sun To Stars South Asian Festival drew 1,000 visitors over 5 hours in August to take in some fantastic music, dance and food. We also got help from pro bono marketing whizzes Ideal Politik.



2010 was another tremendous year for Solar One, and we are pleased to present this Program Report detailing Solar One's contribution to an expanding portfolio of opportunities for all New Yorkers to live, work, and learn in a more sustainable city.

In 2010, we saw a tripling of our Green Workforce training programs as we helped ready a new generation for the jobs of a clean energy economy. We built a new training lab in Long Island City with Community Environmental Center, trained over 1,100 people in various tracks of green jobs, and established partnerships with the NYC Department of Education's (NYC DOE) Career and Technical Education program to bring green jobs training into schools. The Green Workforce program also piloted a paid internship program that resulted in 10 out of 14 interns securing full-time employment in green jobs.

Solar One's K-12 education program also more than tripled the number of students served in 2010, and doubled the number of school partners. The enrichment program reached more than 6,000 students in 77 schools with workshops on sustainability topics varying from eco-art to water quality monitoring. We rolled out a pilot of our new Green Design Lab™ curriculum, which uses the school building to give students an up-close look at the many systems that affect the building's efficiency and sustainability. In October 2010 the Green Design Lab™ launched as a pilot in 10 public schools in partnership with NYC DOE.

Energy Connections - our outreach and public education program - had its biggest year ever promoting energy efficiency and renewable technologies. Workshops, public education events, and other outreach combined reached over 17,000 people. Energy Connections also launched several new initiatives including education programs for tenants in low-income buildings, a new Green Congregations series, and a green office guide. And, we continued work with NYSERDA's Energy \$mart Communities program to promote energy efficiency and financial savings for residential and commercial buildings.

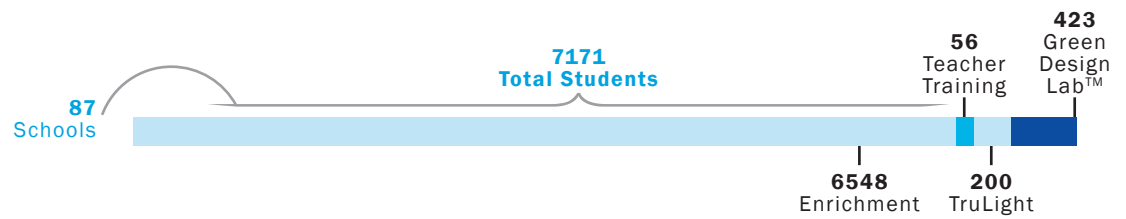
Finally, 2010 brought another successful year of our arts and cultural programs that maintain the vibrancy of our East River location. We presented the 6th year of the Green Energy Arts Festival, including the biggest Sun to Stars Festival ever, and also hosted community programs and provided space for screenings, performances, concerts and celebrations like Loving Day. Stuyvesant Cove Park got an upgrade with new interpretive signs providing context for the Park and surrounding ecosystem. We continue to improve and maintain the evolving landscape of plants and trees in our unique location. With the 10th anniversary of the opening of the Park on the horizon, Solar One remains committed to cementing its place as the crown jewel of the East River waterfront.

Solar One has grown from humble beginnings in 2004 to a diverse and wide-ranging organization impacting the lives of tens of thousands of New Yorkers annually. In 2011, we will be working even harder to develop cleaner and greener opportunities for New Yorkers. We feel honored for the chance to provide these programs and count on your support in 2011 and beyond.

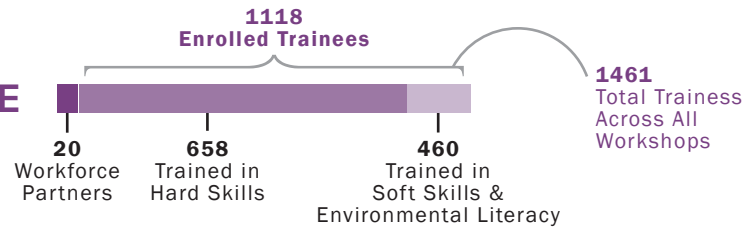
Christopher Collins  
Executive Director

# 2010 IMPACT ANALYSIS

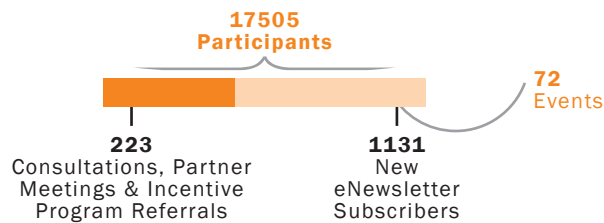
## EDUCATION



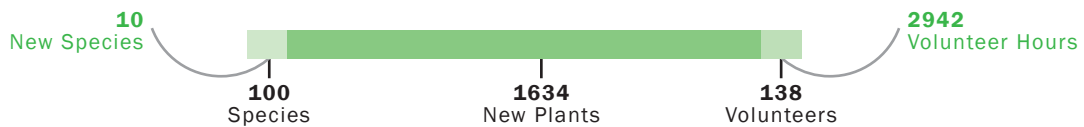
## GREEN WORKFORCE



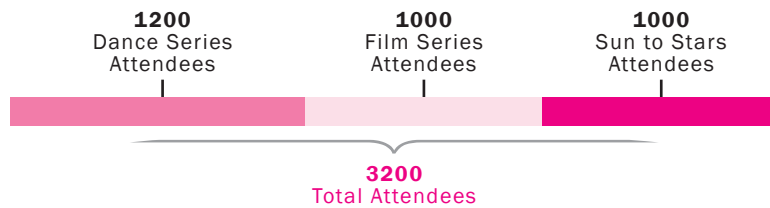
## OUTREACH



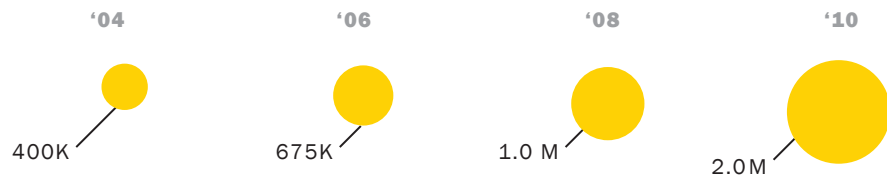
## PARK



## ARTS & EVENTS



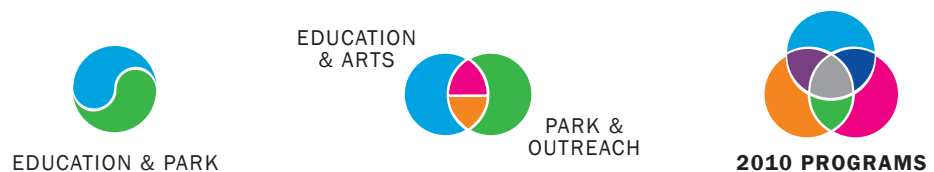
## BUDGET

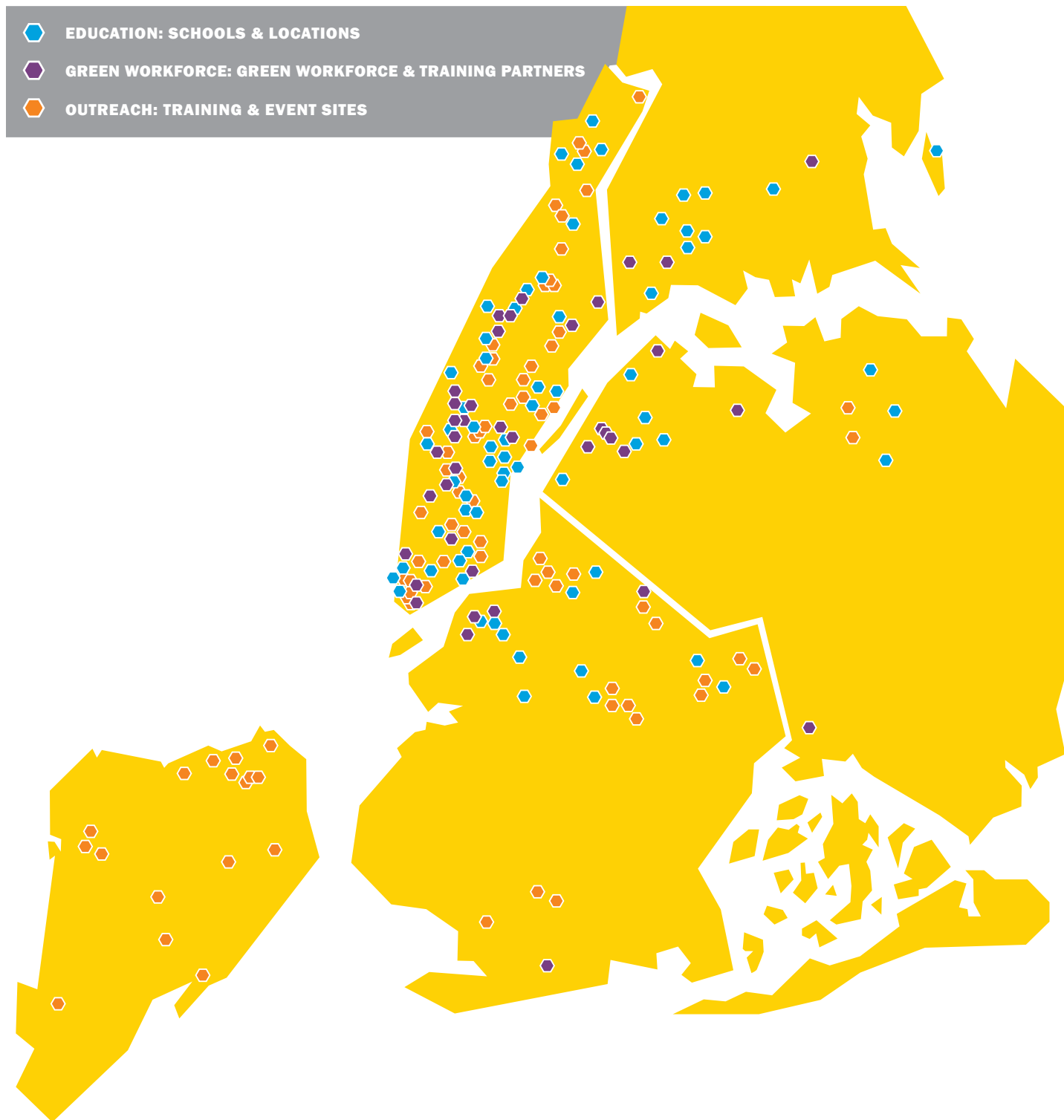


## STAFF



## PROGRAMS





## EXPANDING OPPORTUNITIES

2010 was a tremendous year for Solar One, with two programs—Education and Green Workforce—tripling in size, and all of Solar One’s programs stretching and growing to reach a total of 29132 New Yorkers. Besides expanding the number of people we reached, Solar One also: launched the Green Design Lab™ in 10 NYC schools; started new public education programs to reach low-income tenants and faith-based communities; started working on a green job internship program; upgraded the park with interpretive panels; sent Green Workforce staff on their first multi-state training tour; and opened a new green job training lab in Queens. As we continue to grow in 2011, we look forward to even more exciting developments on the horizon.

# EDUCATION OVERVIEW

In 2010, Solar One's K-12 Education program grew prodigiously. We launched our first year-long in-school curriculum, the Green Design Lab™, in partnership with the NYC Department of Education. We also tripled the number of students in Solar One's K-12 Enrichment Education program. This tremendous growth is the evolution of Solar One's innovative education programs over a mere six years; to date, Solar One has reached a total of over 25,000 New York City youth.

Solar One's Education programs teach urban youth about the natural world within their city and also cultivate a sense of environmental stewardship in these leaders of tomorrow. Building on our tried-and-tested education methods, the Green Design Lab™ is an ambitious new program with goals of teaching sustainability and improving STEM skills (Science, Technology, Engineering, and Math) while reducing schools' energy use and costs and greening their operations.



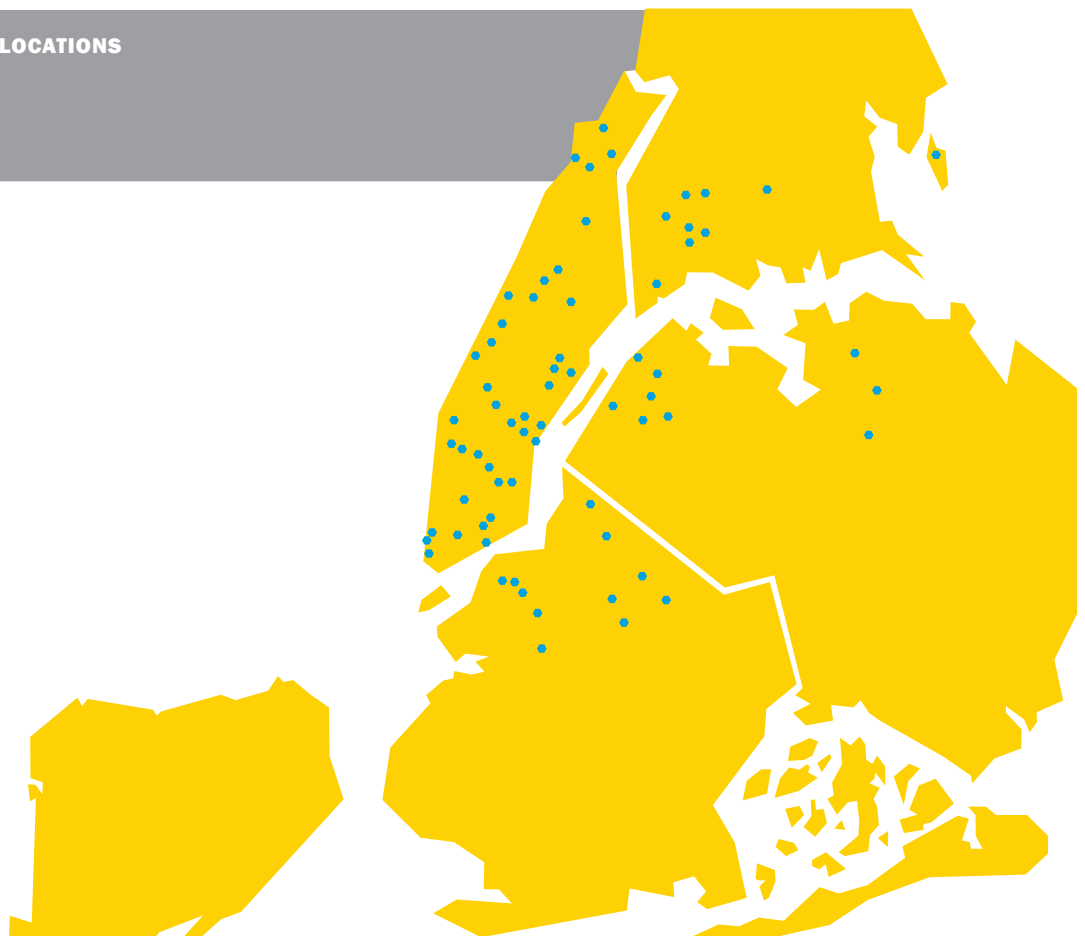
**EDUCATION: SCHOOLS & LOCATIONS**



**TRAINING**



**OUTREACH**





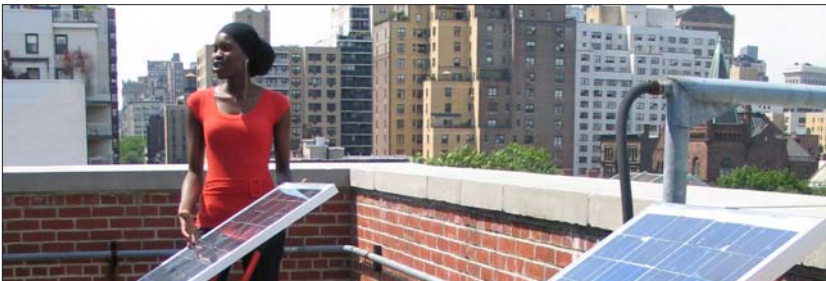
# EDUCATION PROGRAM

**Green Design Lab™ • Enrichment Education • TruLight • Teacher Training**



## **TruLight: Baruch College Highschool**

Youth Eco-Entrepreneurship students developed green business plans and products as part of TruLight.



## **Solar Panels by Manhattan Comprehensive**

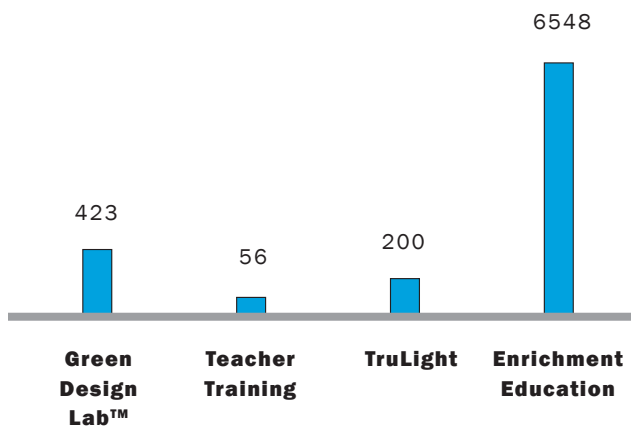
Students at Manhattan Comprehensive, many of them immigrants, learn solar applications they can use in their home countries.

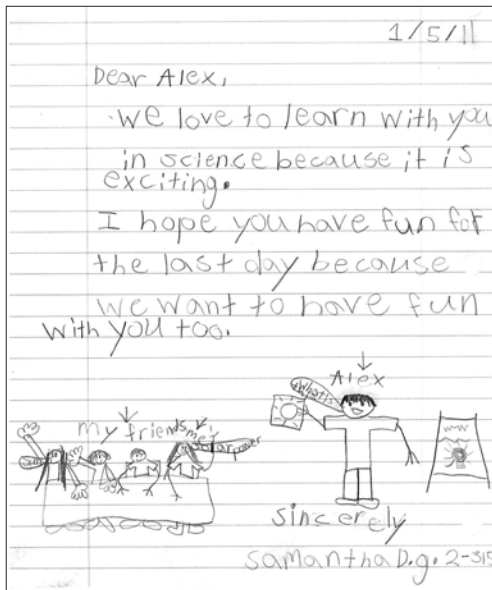


## **7th Grade Class, Green Design Lab™**

7th grade students inspect their school's boiler room at the School for Global Leaders.

**Education Program Served 7171 students and 56 teachers in 2010 at 87 Schools**





#### Green Design Lab™

"The Solar One Green Design Lab™ has been an amazing adventure for myself, a 7th grade science teacher, and for my 7th grade students. The program has prompted my students to think more "green" about their school environment and their everyday life. My students have become advocates for environmental change due to the hands-on opportunities offered through this wonderful program."

- **Erick Sanchez, 7th grade science teacher,**  
**The School For Global Leaders**

## GREEN DESIGN LAB™

The Green Design Lab™ is a powerful new curricular blueprint for greening a school and saving money. Launched in October as a pilot project with the New York City Department of Education, Division of School Facilities, and other authorities in charge of school curricula, the GDL teaches STEM skills and lowers the energy the school uses. The 2010 pilot launched in 10 schools in Manhattan, Brooklyn, and the Bronx with 423 students participating from October to May.

The GDL uses the school building itself as a lab to teach sustainability and STEM skills. Six curriculum units – Energy, Air Quality, Water, Materials, Waste/Recycling, and Food – mix in-class lessons and project based learning. While participating in GDL, students do energy audits, learn about materials used to clean, build, and maintain their school, make their classrooms models of sustainability, build solar gadgets, monitor the air quality, and otherwise learn about sustainability. Student projects create relevant, real-life ways for students to use STEM skills. For example, students project the amount of energy – and money – their school will save by installing efficient lighting and heating systems, and then monitor the schools monthly utility bills to check their projections – using math, planning, and science skills. The GDL meets national standards in eight subjects and teaches seven distinct skills.

## ENRICHMENT EDUCATION

In 2010 Solar One's Enrichment Education program grew by leaps and bounds. Education staff held enrichment programs at elementary, middle, and high schools and community organizations like the Brooklyn Children's Museum, the Intrepid Sea, Air, and Space Museum, and the Chinese-American Planning Council. Reaching more than three times as many students in twice as many schools as 2009, the Enrichment Education program provides 1- to 3-session workshops, namely Renewable Energy, Estuary & Park Ecology, Sustainable Design and Ecological Art. The program served 6548 students in 77 schools in 2010.

## TRULIGHT

The TruLight Green Entrepreneurship Program came a long way from its origins training students to sell compact fluorescent light bulbs (CFLs) by teaching them about energy use. By 2010 it had grown into a full-blown entrepreneurship curriculum combining classroom training and real-world experiences, allowing students to broaden their knowledge about green industries and create business and sales plans. TruLight's content overlapped with our green jobs and youth education programs, combining the best practices of entrepreneurship training with middle and high school project based education. Students in TruLight learned how to create sustainable and environmentally sound business plans, identify

markets, create budgets, and project costs and expenses – all with an ecological focus. Business planning, research, math, and language skills were all covered as a means to help students with their ideas.

TruLight's 2010 session culminated in June with an Expo held at the New School University, where student teams pitched their business ideas to a panel of professionals. The winning team was a company called JeanieBags who took old pairs of jeans and recycled them into trendy new handbags and backpacks. In 2010, TruLight reached over 200 students in 9 schools with entrepreneurial training.

## TEACHER TRAINING

Solar One provides professional development days for teachers on how to use the Green Design Lab™ and other sustainability curricula in the classroom. In 2010, Solar One held two teacher training days with an attendance of 56 teachers as part of NYSERDA's Energy \$mart Students Program.

These trainings allow teachers to test the materials and activities before bringing them into their classrooms. This ensures that they can more effectively incorporate them into their lessons and deploy them to their students.



### Solar-Powered Battery Lamps

A 9 week course educating students on electricity, solar-powered electronics, local air quality, and energy poverty at Manhattan Comprehensive Day and Night School.

When the lamps were completed, the students charged them with solar photovoltaic panels they made themselves. The project demonstrated how small-scale solar works in parts of the world without grid access.

### FEATURED SCHOOL: GREEN DESIGN LAB™ at PS 187

**TEACHERS** – Ms. Hovde uses GDL curriculum to teach her kindergarten class about energy, air quality, and other complex topics. Teachers get a curriculum adaptable for K-5 or 6-12.

**STUDENTS** – All the students in PS 187 participate in the GDL, and get to learn about how energy works. Some really shine! By the 2nd GDL class, Valentino, a boy in Ms. Hovde's class, could already explain to his classmates how the sun indirectly provides for people – by making fruits and vegetables grow and providing energy for grass which provides energy for cows which provides energy for people.

**PRINCIPALS** – Principal Cynthia Chory gets help in making sure all 793 of the students in her charge at P.S. 187 learn STEM skills and environmental stewardship.

**CUSTODIANS AND STAFF** – Charged with keeping the school clean and running well, custodians and staff get a lot of help from the GDL in making P.S. 187 greener and more efficient. The GDL teaches students and teachers to shut windows, switch off lights, unplug unused appliances, report leaking faucets, and otherwise help the school save money by saving energy.

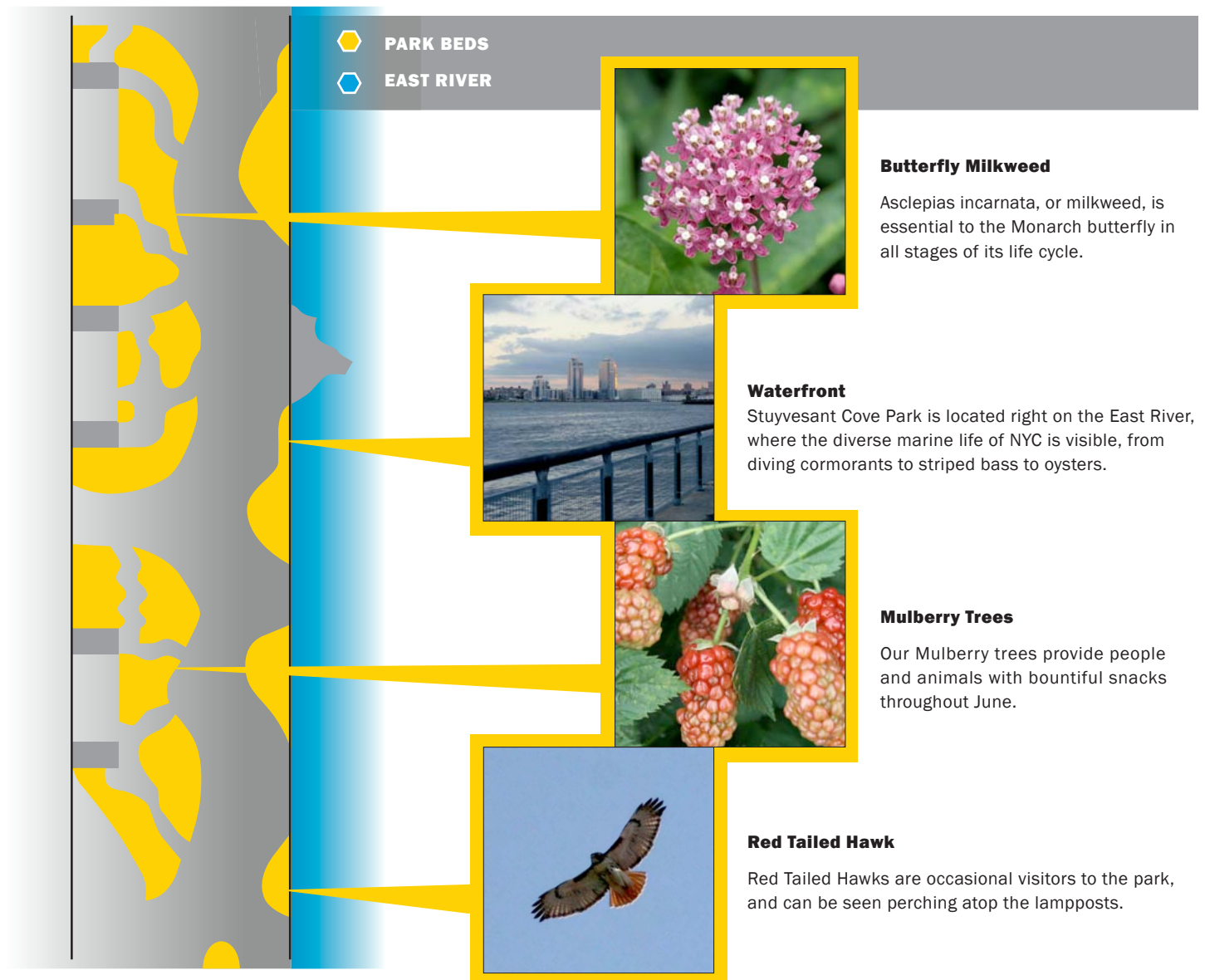
**PARENTS AND FAMILY** – Each family of the 793 students benefits from their child excelling in school – and gets help saving energy and money at home from the simple, easy ways their child learns be more energy efficient.



New York City's massive public school system is the largest in the entire U.S. It serves over 1.1 million students, comprises 1,600 schools in 1,200 buildings, and constitutes 25% of the city's total spending on heat, light, and power. The Green Design Lab™ helps schools meet a new city mandate to reduce their energy use and save money – with a 30% reduction goal in just a few years.

# PARK OVERVIEW

Nestled along the East River between a marina, a highway, a Con Edison power plant, and New York City's busiest gas station, Stuyvesant Cove Park is an island of green in a sea of concrete. As New York City's first all-native plant, sustainably managed park, Stuyvesant Cove Park is a chance for New Yorkers to personally experience the possibility of reclaiming industrial space and turning it into green space for public use. Stuyvesant Cove Park is now home to many of Solar One's programs including the Green Energy Arts Festival and many Education workshops, which take place in Solar 1, a classroom-sized solar-powered building.





# PARK PROGRAMS

Family Days • Park Internship Program • New Interpretive Panels • Maintenance



## Native and Sustainably Maintained

Dozens of species of birds make the Park their home.



## River's Edge Park Panel

New interpretive panels illuminate and educate through graphic illustrations of the history and surroundings of the Park.



## Stuyvesant Cove Park

An oasis of green in a sea of concrete for joggers, bikers, and anyone passing through.

## Seasonal Stuyvesant Cove Park

Every cycle of nature is another opportunity for education about the ecosystem of the Park.





**Aerial View of Stuyvesant Cove Park and the Solar-Powered Classroom, Solar 1.**

## PROGRAMS

In 2010, Solar One installed three interpretive panels in the Park, which inform the 55,000 people who visit each year about the Park's ecology and meadow-like design, the wildlife in the Park and the view across the East River in Brooklyn. The interpretive panels are beautifully designed graphic panels, which are highly resistant to damage, can be cleaned with a soy-base graffiti remover - and are even bulletproof.

New Yorkers sometimes forget that we live on an island, surrounded by tidal straits that support wildlife like fish, fowl, and crustaceans. The new interpretive panels direct the attention of the students, joggers, bikers, pedestrians, and others visiting Stuyvesant Cove Park to its healthy, rich eco-systems, its plants and the story of the NYC waterfront.

### **2010 Family Days were:**

- Wildflower Day - potting native wildflower plants and making flower headpieces and costumes. Partner: Wildflower Week.
- Creatures Day - a mobile petting zoo with a lizard, a hermit crab, a millipede, a tortoise and other native creatures.
- Pollinators & Food Day - making homemade mulberry and mint-flavored ice cream made with park-grown fruit, and learning about pollinators like bees, butterflies and moths.
- Go Fish Day - catch/release fishing and learning about waterways. Partner: NYS Dept. of Environmental Conservation

## PARK INTERNSHIP PROGRAM

Each year Stuyvesant Cove Park becomes a summer internship site for urban youth in partnerships with the Consortium for Worker Education (CWE) and Manhattan Comprehensive Day and Night High School (MCHS). Through these internships, young people get hands-on training in all aspects of park maintenance and horticulture and the opportunity to fast-track into the official apprentice program of the New York Building and Construction Trades Council. Much more than just a job-training program, the Park Internship helps 80 young people per year develop a greater connection with nature and a stronger sense of environmental stewardship.





## MAINTENANCE

We get a lot of help being beautiful. Stuyvesant Cove Park is maintained through the generosity of over one hundred volunteers, who rake, plant, weed, clean, shovel snow, and help out in myriad ways - supporting Solar One's maintenance team in times of great need, like two feet of snow. We couldn't do it without them!

Featured Above:

(left) City Year NYC, (right) 'Park Angel' Geoffrey Berresford.

# 1634

NEW PLANTS IN THE PARK

# 10

NEW SPECIES

# 100

APX. PLANT SPECIES IN PARK

# 138

PARK VOLUNTEERS

# 2942

TOTAL VOLUNTEER HOURS

# 55000

VISITORS PASS THROUGH ANNUALLY

### FEATURED STUDENT INTERN: SALIM NDIAYE

I found Solar One through my high school, Manhattan Comprehensive Day and Night School, because one of the teachers there – Mr. Pereira – works with Solar One to conduct workshops and classes on solar power. I asked him for help with an internship and he connected me with Solar One.

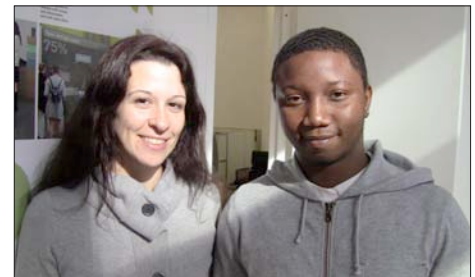
I started working in Stuyvesant Cove Park, doing maintenance, gardening, weatherizing the buildings, and doing a solar power project.

When it got cold, I joined Solar One's staff as an intern in the Green Design Lab™, and every week I go up to the Bronx International High School to help the Solar One educators. This school has a large body of international students and many are from Africa and speak French. I am a refugee from the Ivory Coast, and came to New York City only one year ago, and help translate Green Design Lab™ lessons into French. The students at Bronx International have done a public awareness campaign about being green and an energy audit looking at the school's boiler.

**I like everything about working with Solar One – the staff, the students at Bronx International – and Solar One is the first place I've learned about solar energy.**

In the Ivory Coast, I was in school to learn law, and when I graduate high school I want to resume that, and study to become a criminal justice lawyer. Right now I am a senior at Manhattan Comprehensive.

**—Salim Ahmed Ndiaye, Manhattan Comprehensive High School**



**The Bronx International High School has a diverse, multilingual student body.**

Many students are very recent immigrants to the U.S. and have what is called an "interrupted education," meaning they finished high school in their home country but because of their age can still get a U.S. high school diploma or only have partial high school educations in their home country. Many are ESL students and providing the Green Design Lab™ in other languages helps ensure they can learn other topics while they are still learning English.

**Photo: Educator Fronsy Thurman with Salim Ahmed Ndiaye**

# GREEN WORKFORCE OVERVIEW

2010 was a year of exponential growth for Solar One's Green Workforce Program. Focused on environmental literacy and green job skills training, Solar One's program fulfills a unique niche in New York City by partnering with workforce agencies, vocational schools, and other organizations creating pathways out of poverty for low-income New Yorkers, and adding green jobs training to these existing programs – all geared toward contributing to the growth of a strong, inclusive green economy in New York City.





---

# GREEN WORKFORCE

**Green Workforce Training • Green Workforce Placement • Paid Internship Program • New Green Training Lab in Queens**



**Hands On Training by Solar One Instructor Dave Gibbs**

A pilot job placement/subsidized internship program with HRA resulted in 10 of 14 interns getting green jobs.



**Former Solar One Staff Chris Neidl and Instructor Anthony Alexander and class of Green Workforce Trainee Graduates**

Half way through the typical post-course job placement period 374 trainees have already found employment.



**Solar One Workforce Program Director Michael Johnson-Chase and Instructor Dave Gibbs Lead a Workshop**

Solar One works with 20-plus workforce agencies and CTE schools on green job training.

## ON THE ROAD

In 2010, Solar One got a chance to go on the road with our workforce training program. Working with STRIVE International, Solar One staff went to **Hartford, CT, Flint and Benton Harbor, MI, Baltimore, MD, and Philadelphia, PA** to conduct training workshops on green jobs, green economic development, climate change as an economic driver, the types of jobs in the green economy, and tools and resources for these workforce programs to continue tracking them on their own, reaching 145 participants and 27 staff.

## **Solar One's Green Workforce Program training modules are:**

- Building Performance/Weatherization
- Solar Photovoltaic and Thermal Installation
- Energy Auditing Basics
- Green Building Maintenance
- Green Business Entrepreneurship
- Basic Green Construction (Electrical, Carpentry, Plumbing, and OSHA)
- Deconstruction, Materials Management, and Recycling
- Environmental Literacy
- Green Training for Career & Technical Education High School Teachers

1118

INDIVIDUALS TRAINED IN 2010

658

HARD SKILLS TRAINING

460

SOFT SKILLS & ENVIRONMENTAL LITERACY

342

COMPLETED MORE THAN ONE COURSE

1461

TRAINEES OVER CLASSES & WORKSHOPS

## **GREEN WORKFORCE TRAINING**

The Green Workforce Training Program's training-based approach provides workshops on nine discrete green job tracks as part of a broader vocational education or workforce preparedness program. Solar One's focus is training and curriculum development, however in 2010, Solar One also took the first steps towards the next frontier of the burgeoning green economy – assisting workforce partners with job placement. Green Workforce Training Program staff worked with potential employers to collect job placement data, and create “best practice” models for training and job placement.

From January to December 2010, the Green Workforce Training Program provided training to 1,118 individuals –three times as many people as 2009. Trainings teach hard skills like solar panel installation and energy auditing as well as soft skills like environmental literacy. Of the 1,118 people Solar One trained in 2010, 658 received hard skills training and 460 were in environmental literacy and soft skills programs. Over 300 students took more than one course, with a total of 1,461 trainees going through all our Solar One classes and workshops.

Solar One's Green Workforce Training staff also expanded to 20 workforce agency partners. Most trainees in the Green Workforce program are un- and under-employed New Yorkers, many working to overcome barriers to employment like lack of high school diploma and re-entry to society after incarceration.

## **GREEN WORKFORCE PLACEMENT**

Solar One started the new job placement track as a way to better support graduates in securing living-wage green jobs. While the green economy is a high-growth field, our workforce program partners tell us their graduates find relatively few job openings requiring green job skills. Yet green businesses tell us they are constantly on the search for qualified candidates. Solar One is uniquely positioned to try to close this gap.

One new finding on job placement is that – based on initial data from our workforce partners – green job training combined with a paid internship period more than doubles the chances of securing a green job. There are many other factors that influence job placement, however this important finding informs Solar One's green jobs program planning for 2011 and beyond.

Data on job placements from graduates of the 2010 program is still preliminary, as it takes three to six months for a job placement. However, initial data on 374 of the 658 hard skills trainees shows that 32% secured jobs, and 12% secured green jobs. As job placements continue in 2011, we expect this rate to rise and for more people to get green jobs.

## PAID INTERNSHIP PROGRAM

Perhaps more telling is the success of a pilot job placement program Solar One started in 2010, as a paid internship supported by the Human Resources Administration wage subsidy program. This pilot program provided 12-week paid internships to 14 graduates from our green jobs training programs. This valuable on-the-job training resulted in 10 of these 14 interns finding full-time positions with green employers - a breathtaking 71% success rate. This pilot was a unique opportunity for Solar One to test a new approach that could help all New Yorkers take full advantage of the promise of the green economy, expand employment opportunities, and ultimately support further growth of the green economy.

## NEW GREEN WORKFORCE TRAINING LAB IN QUEENS

Working with Community Environmental Center, Solar One built a new Green Workforce training lab in Long Island City in 2010. Complete with a door blower and means to provide training in installation of solar panels, insulation, and more, the Lab is an important new addition to the Green Workforce program.

### What is a “green job?”

In 2010, participants in the Green Workforce Training program secured jobs as:

- Cabinet Builder/Installer
- De-Construction Worker
- General Construction Laborer
- Multi-Family Building Health and Safety Inspectors
- Plumber
- Remediation Worker
- Sales and Marketing Representative
- Solar Installer
- Technical Trainer
- Weatherization Technician

### FEATURED TRAINEE: MARVIN NELSON

I got into Solar One’s green jobs program because I had some experience with electricity, plumbing and carpentry through jobs here and there. I did some research and found Brooklyn Workforce Innovations and the Carpenters Union programs. I took a test with 80 guys and got into a class of 30. I could have easily got into a Union job but I would not have learned as much, and only done carpentry. I got into a Solar One class in weatherization, taught by Anthony Alexander, through the NYC District Council of Carpenters, and it opened my eyes to energy conservation.

I was given a job through wage subsidy and worked with Green Power Solutions, where I was hired full time as Project Manager and Solar Technician when the wage subsidy program ended. Green Power offers turnkey solutions – solar PV and solar thermal. I work on the planning of the system – sizing it, getting permits, ordering materials, project management – and I also install. That’s what I like best about my job - I like plumbing, electricity and carpentry and green, and this job lets me be master of them all. Now I’m looking toward a career in Project Management. What I’ve learned is that most people are uninformed about solar power. They think it’s just a gimmick. So we have to show my friends and neighbors and the clients that it’s real. We ask them to look at their 401ks and see that solar is earning 12% and growing, that it can offset their bills and help them be independent from the grid. We do community education too. I was part of an event with Green Horizons for kids – to help communicate and educate.

We’re helping NYC to take stress off the grid. We’re helping people in New York to become green and independent from the grid. — **Marvin Nelson, Solar One Green Workforce Trainee**



# ARTS & EVENTS OVERVIEW

The Green Energy Arts Festival presents high-caliber dance, music, film, and other arts in an outdoor, riverside setting and features artists ranging from the internationally renowned and academically trained to emerging, community-based, and youth artists.

Solar One powers the entire Green Energy Arts Festival with a small solar photovoltaic array, providing NYC residents with high-quality, outdoor summer arts programming. The Festival demonstrates the real possibility of using solar energy in everyday life – seeing a three-hour film festival powered using only sustainable energy from the sun inspires visitors about the potential of using solar energy in many other ways.

## **Solar-Powered Dance Series**

Mercedes Searer  
Tracie Stanfield's  
Synthesis Dance Co.  
Daniela Hoff  
& Liza Austria



## **Sun to Stars**

Odissi dancer  
Sonali Mishra  
Bansuri flautist Jay  
Gandhi and tabla  
player Nitin Mitta  
South Asian  
supergroup Ashkara



## **Solar-Powered Film Series**

Audiences watch film  
screenings powered  
by the sun.





# ARTS & EVENTS

## Jamal Jackson Dance Company - Revelry by the River - Green Energy Arts Festival



### Solar-Powered Dance Series

Choreographer Theodora Boguszewski's *Communion*.



### Audience at Sun To Stars 2010

Our largest crowd ever relaxes Indian-style on carpets and pillows in front of the Solar 1 stage.



### Jamal Jackson Dance Company

Dancers and apprentices with Brooklyn's Jamal Jackson Dance Co. perform in the Park, accompanied by the Berean Community Drumline.

## SUMMER 2010

Every Summer Stuyvesant Cove Park's lovely riverside location becomes a hot ticket event destination for dozens of events - some held by Solar One with partners and some held by other groups.

The 2010 Special Events season kicked off with an array of Earth Week events, like **Off the Grid 2010**, a party for Earth Day's 40th birthday thrown by NYU Earth Matters. Other 2010 events in the Park were: **Crawfish Day**, which has now grown into Crawfish Weekend, a benefit for music programs in New Orleans; **Green Drinks NYC's** June party; **Loving Day**, an annual celebration of the legal victory for interracial relationships; an event celebrating the **100th Anniversary of the Kibbutz** movement held by the Israeli Consulate and Rooftop Films; a screening of the last game of the **World Cup championships** hosted by the Big Ten Alumni Association and Sixpoint Craft Ales; and a **premiere event for a new HBO series**.

The Stuyvesant Cove Park Association presented events with the **Harlem Renaissance Blues & Jazz Band**, local singer-songwriters **Annie Dressner and Paul Sachs**, and a very special visit from the **Jazzmobile**. Solar One was also thrilled to have a visit from climate activist **Bill McKibben** and the **350.org Solar Road Trip**, as Bill made his way to Washington DC to ask the Obama administration to return the Carter-era solar panels to the White House roof- a quest that was ultimately successful.



#### Berean Community Drumline

The Drumline is a program of the Berean Baptist Church in Crown Heights, Brooklyn—combining fitness, performance and cultural tradition.



#### Sun to Stars Festival

The 2010 Sun To Stars Festival was our biggest ever with appreciative crowds staying well into the night.

## PROGRAMS

In April, the 2010 Green Energy Arts Festival kicked off with a featured performance by the Jamal Jackson Dance Company and special guests the Berean Community Drumline - a youth program from Crown Heights - and the Frank Malloy Djembe Ensemble. An audience of about 200 followed the Drumline through the Park, stopping in the clearings to watch the energetic, hip-hop influenced choreography.

## SOLAR-POWERED DANCE FESTIVAL

In July, the Solar-Powered Dance Festival presented 12 emerging choreographers performing short original works on our recycled eco-stage. In addition to returning artists Daniela Hoff, Mary Ann Wall and Tracie Stanfield, the Series welcomed newcomers Meghan McCoy, Tzu-Ying Lee, Theodora Boguszewski, Yesid Lopez, Joseph Celej, Mercedes Searer, Mariana Valencia, Makiko Tamura and Mana Kawamura. Their work demonstrated the breadth of the NYC dance scene, with influences incorporating ballet, Butoh, jazz, burlesque, hip-hop, interpretive and of course modern dance styles.

## SUN TO STARS

In August, the Green Energy Arts Festival presented the only free, outdoor showcase of South Asian dance and music in the city. Inspired by the traditional all-night concerts along India's Ganges River, the festival runs from the afternoon through the evening. Drawing from top talent in the NYC South Asian arts community, this year's festival included performances by Odissi dancer Sonali Mishra, sitar virtuoso Indrajit Roy-Chowdhury and South Asian supergroup Ashkara, led by mridangam master Bala Skandan.

## SOLAR-POWERED FILM SERIES

In September, the 2010 Solar-Powered Film Series presented six nights of film screenings in partnership with Green Edge Collaborative on an outdoor screen with a solar-powered projector and sound, followed by an audience Q&A with the directors and experts in each film's subject. This year's documentaries included *Tapped* (bottled water), *Vanishing of the Bees* (colony collapse disorder), *Fuel* (global energy crisis), and *Fresh* (US food production). We also showed our first solar-made films, Tony Stone's *Severed Ways* and *Out of Our Minds*, along with the dystopian future semi-doc *The Age of Stupid* starring the late Pete Postlethwaite. In 2010 we also held special screenings of *Gasland*, *Sweet Mud*, *Twelve Ways to Sunday* and a sneak peek at HBO's documentary series *The Neistat Brothers* with Rooftop Films.

## REVELRY BY THE RIVER

Solar One held its seventh annual fundraising gala, Revelry By the River, on June 9, 2010, attended by more than 400 people. This year, we honored global engineering leaders Arup with the Sustainability Achievement Award for their commitment to reducing energy use in buildings around the world, including our own Solar 2 project, and sisters Lauren Remington Platt and Ashley Wilcox Platt received the Young Environmentalist Award.

In addition to our usual dinner-and-awards-ceremony, this year we held our first Silent Auction with items from Ferragamo, Marc Jacobs, Valentino, Do Good Feel Good, Hotel du Pont and many more. We also experimented with Text To Pledge, a text-based donation system where donors got to see their messages and pledges projected on our video screen as they made them in real time. These new, engaging features helped make the event a phenomenal success.

*For a complete list of performers, please see the Acknowledgements section in the back.*



### Revelry by the River

(Top) Ashley Wilcox Platt, Arup's Nigel Nicholls, Chris Collins, and Lauren Remington Platt.

(Bottom) Despite wet weather, a large crowd (including Solar One's Max Joel and Dinner Committee Co-Chair Hartley du Pont) enjoy cocktails and conversation before dinner at Revelry By the River.

## FEATURED PARTNER: ROOFTOP FILMS

In 1997, NYC native and filmmaker Mark Elijah Rosenberg started showing independent films on his East Village tenement rooftop. 14 years later, Rooftop Films has grown into one of NYC's most popular non-profit arts presenters, showing 175 films last season to over 20,000 attendees in some of the most novel outdoor locations in the city—including Solar One.

From 2006 until 2009, Rooftop partnered with Solar One to present "Energy Independence Day", a ticketed event including live music, beer, a short film screenings and a front-row seat to the fireworks over the East River, attracting over 700 people each year.

Though Macy's has moved the fireworks to the West Side, Solar One and Rooftop have continued to develop their partnership, collaborating on presentations such as the world premiere of *Burning In the Sun*, a film about solar development in West Africa; a sneak peek at HBO's documentary series *Neistat Brothers*; the world premiere of *Twelve Ways to Sunday*; the celebration of the 100th anniversary of the Israeli Kibbutz movement, in conjunction with the Israeli Consulate; the Independent Filmmaker Project Labs Showcase, a part of the yearly Independent Filmmaker Week. Rooftop has also continued to generously donate their fabulous inflatable screen for the Solar-Powered Film Series every year.



### CELEBRATING THE FIRST ENERGY INDEPENDENCE DAY

The crowd gathers by the river for a magnificent view of the 2006 Macy's July 4th fireworks display.

# OUTREACH & PUBLIC EDUCATION OVERVIEW

Solar One's public education and outreach program provides comprehensive information on green energy resources to NYC residents, businesses, and community based organizations through a number of different workshops and public events. Workshops take place in locations throughout NYC, typically through partnerships with community organizations. The program's objective is to ensure that all New Yorkers have easy access to the most current information on energy efficiency and renewable energy resources. Solar One's public education programs support NYC's ambitious goals to reduce energy use, combat climate change and make our city greener and more sustainable.





# OUTREACH & PUBLIC EDUCATION

**Energy Connections • Green From the Inside Out • NYSERDA Energy \$mart Communities • Tenant Education • NYC The Future Metropolis**



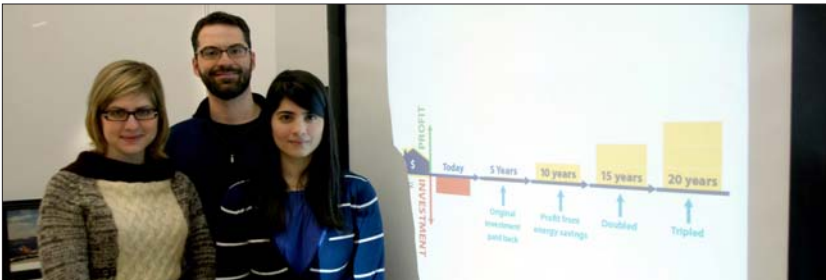
## **NYSERDA Energy \$mart Communities Home Energy Workshop**

Solar One staff Sara Jayanthi educates homeowners about optimizing their energy savings.



## **Green from the Inside Out**

Solar One staff Chris Neidl leads a Green from the Inside Out workshop at Harlem CDC.



## **Energy Connections Team**

(Left to Right) Mary Tchamkina, Max Joel, and Sara Jayanthi help thousands of New Yorkers save money and energy.

## **14TH STREET Y: A GREENER COMMUNITY CENTER IN 2011**

In 2010, Solar One formed a partnership with the 14th Street Y, a community center based in the East Village. After participating in the Jewish Greening Fellowship, a year-long intensive program that provides training to Jewish institutions the Y decided to undertake their own major green renovation. Solar One Energy Connections (S1EC) became a “green resource” to the Y helping them every step of the way. **S1EC has also been chronicling the Y’s journey in our monthly e-newsletter for thousands of readers – helping a broader community understand the day-to-day details of greening a large urban building.**

In the spring, the Y began the NYSERDA Flextech Audit Program, which takes a close, objective look at a facility and provides a customized assessment to inform decisions about increasing energy efficiency. The Y will receive a full audit of their facility in early 2011, and will create a comprehensive greening plan to implement changes recommended in their energy audit. The Y also received a lighting audit through the Con Edison-Converge partnership program, after which they replaced lamps and fixtures with new, energy efficient fixtures at no cost to the Y. And, the Y completely re-designed their theater into a new “green theater” with energy-saving lighting practices and an old stage repurposed into much-needed new storage space.

Reducing their energy load is only one way the Y is greening their organization. They switched their catalog from conventional stock to Forest Stewardship Council certified, 100% recycled paper printed with soy-based ink. They also purchased solar lamps for their rooftop garden.

Solar One is very proud of the initiative the 14th Street Y has taken to go green in 2010, and excited to continue working with them in 2011!



#### Featured Partner: Con Edison

One of Solar One's most consistent partners in energy efficiency outreach is Con Edison. Through the Power of Green Program, Con Ed offers assistance with weatherization, heating and cooling, lighting and appliances.

<http://www.coned.com>

17505

PEOPLE REACHED

72

EVENTS PRIMARILY OVER THE FIVE BOROUGHs

1131

NEW NEWSLETTER SUBSCRIBERS

223

CONSULTATIONS, PARTNER MEETINGS &  
INCENTIVE PROGRAM REFERRALS

## ENERGY CONNECTIONS

How can you live greener in a coop or condo? Can I install a green roof/blue roof/white roof on my brownstone? Where do I buy a solar power system for my home? Solar One Energy Connections helps New York City businesses and residents answer burning questions about how to live greener and cleaner.

As the NYSEDA (NY State Energy Research and Development Authority) Energy \$mart Communities Coordinator for Manhattan and Staten Island, S1EC hosts workshops like the Green From the Inside Out workshop series, which takes place at community centers throughout Manhattan and Staten Island. Workshops address varied issues like financial incentives to switch to sustainable energy, changes that coop and condo boards and building owners can make to be more energy efficient, green financing, green roof options, composting, city recycling systems, and solar power in NYC. Solar One partners on these programs with GrowNYC, the Council of New York Cooperatives and Condominiums, the Community Preservation Corporation, the NYC Composting Project and participants from dozens of organizations.

A new workshop project in 2010 is Green Congregations—an initiative to reach religious communities in NYC. In partnership with Green Faith, whose mission is to inspire people of diverse religious backgrounds to environmental leadership. S1EC presented Green Congregations Energy Stewardship 101, addressing how houses of worship can be more energy efficient and sustainable and also engage youth in environmental stewardship.

## TENANT EDUCATION PROGRAM

Solar One Tenant Education Program (STEP) is a new program for 2010, the program was developed to reach low-income tenants of buildings undergoing major “green” improvements, like those done with the help of Weatherization Assistance Program (WAP). Working with the Community Environmental Center (CEC), the STEP program provides green living education as an auxiliary program to WAP. When a building is weatherized, its heating, lighting and other systems are improved or replaced. In addition, buildings implement many other measures to make the tenants more comfortable and save them money on their bills. STEP explains how building weatherization directly benefits tenants. For example, when a building installs a new, efficient heating system, radiators don't get as hot, which could make residents think the heat is broken. Presenters explain that the heaters are still working well without wasting energy while keeping indoor temperatures more even. STEP also covers tips and tricks to help tenants save on their utility bills, and NYC recycling laws to improve the building's recycling efforts.

STEP workshops use weatherization and saving money as a

gateway to address larger issues of green living. Besides energy efficiency and recycling, the topics covered include water efficiency, indoor air quality, green cleaning, and finding local access to healthy food options. STEP presentations typically include local vendors such as CSAs and local farmers' markets. Solar One held STEP presentations at 24 buildings in 2010, including bilingual presentations in Spanish and Russian as needed.

## NYC THE FUTURE METROPOLIS

S1EC is looking far into the future with the NYC the Future Metropolis event, which featured 13 speakers addressing innovative developments in green design and technology. The event is a high-speed, image-driven journey through what could conceivably happen in NYC. Showcasing cutting edge technology and design from biomimicry to urban waterfront development to urban farming, the NYC Future Metropolis event was such a success Solar One is transforming it into a series throughout 2011.



### NYC Future Metropolis

Standing room only crowd attends the first NYC Future Metropolis event with 20 speakers.

### STAFF MEMBER: JAMES KINYANJUI

My first exposure to green was in high school. I went to the High School for Environmental Studies and took A.P. Environmental Studies. I had the fortune of participating in actual experiments with zebra fish, taking field trips upstate visiting superfund sites, and visiting Mount Sinai Hospital for lectures. In high school I heard of solar power, but as a NYC resident coming from a low income residential setting, I can say that anything that involved that kind of technology only belonged to the rich. It still seems like something futuristic, like science fiction.

A year later, I joined a free STRIVE green construction course, and the last part of this program was training by Solar One, where I met Anthony Alexander and Antuan Cannon, and was exposed to many potential aspects of a green career. Shortly after completing the STRIVE Program, I received a call explaining that due to my resume and quality work in the Solar One classes, I was being considered for the HRA's Wage Subsidy Program, which led to starting full-time at Solar One, and eventually becoming the Site Manager for the Solar1 Labs.

**Never have I held a position that was so dynamic. I help teach several green courses and maintain the lab in Long Island City. As the students experience different teachers with each changing subject, I remain a constant that they can count on as a mentor and guide throughout their training.**

I also am involved in the Solar One Tenant Education Program (STEP), in which I travel around Brooklyn to weatherized buildings and talk to tenants about building improvements and living "green." One of the most rewarding experiences from STEP is seeing the transformation of the audience from beginning to end of the presentations. Toward the beginning, many people are apprehensive of either my intentions or just their purpose in attending. As we progress through the slides, it's like seeing all the eyes open and focus, the ears perk up, and (in a sense) seeing the light bulbs go on above their heads. My experience with STEP has also allowed me to develop my public speaking skills to a point where now I'm very comfortable in front of a critical audience. It's an invaluable skill that I'm very grateful for. **—James Kinyanjui, Solar One Site Manager and Outreach Educator**



SOLAR 



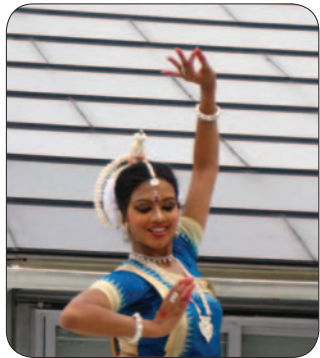


# THE FUTURE — IS IN — YOUR HANDS

**SOLAR 2** will be the first net-zero energy and water re-use facility in New York City. Its purpose is to catalyze a major shift in the way New York City generates and consumes energy and water through hands-on education and live demonstration of energy independence and environmental sustainability.

Located on the East River, this environmental learning center will serve NYC students and educators, workforce, and residents. The planned structure includes classrooms, sustainability exhibits, an eco-office, an outdoor green theater, green screen, green roof, wetlands exhibits, a vertical integrated greenhouse and a roof-level café.

A substantial portion of the funding for the facility has been raised, and we now are seeking to secure the balance in order to begin construction of Solar 2. Please join with us to build a sustainable future for New York and for yourself.



**LEED Rating Platinum**

**Net-zero CO<sub>2</sub> Emissions**

**Net-zero Energy Use**

**Net-zero Water Use**

**Meets Living Building Challenge**

**Biological Wastewater Treatment**

**Wetlands**

**Ventilation**

**Green Theater**

**Recycled and Renewable Materials**

**Visible Machinery**

**Solar Capture**

**Vegetative Green Screen**

**Energy Recovery**

**Eco-Cafe**

**Rainwater Garden**

**Eco-Apartment/Office**

**Roof Garden**

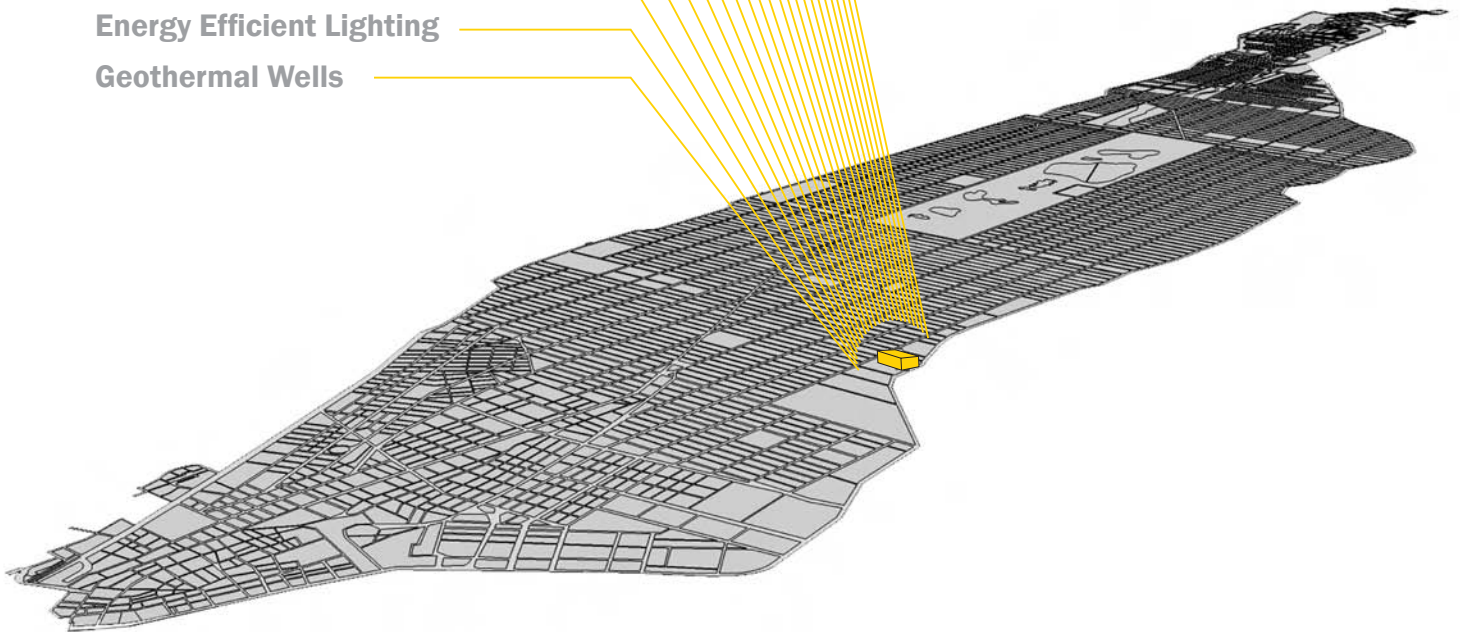
**Solar-Powered Stage**

**Vertically Integrated Greenhouse**

**Photovoltaic Array**

**Energy Efficient Lighting**

**Geothermal Wells**



—UNFOLD THIS LEAFLET—

**SOLAR** 

# SOLAR 2

## SOLAR 2: A LIVING, BREATHING ORGANISM.

In and of itself, our building and the land around it will be a balanced organic system. It will function largely by using the water that lands on its site through rainfall. Annually, it will generate as much energy as it uses, and will produce extra to give back to the City grid. It will produce a modicum of waste.

But in a much larger and more meaningful way, Solar 2 will be a part of the living, breathing organism that is New York City. When the public and the workforce experience Solar 2, they will take what they have learned back into their lives, their homes, their schools, their neighborhoods, and their offices.

Each element of Solar 2 is designed to support and regenerate the system, and every element will serve as an educational opportunity to visitors.

### GREEN THEATER & SOLAR-POWERED STAGE

Unique multi-use entertainment space also informs visitors about alternative energy. Outdoor seating area provides connection to the environment, with East River and Park views.

### ROOF GARDEN

Reduces heating and cooling energy loads and filters carbon dioxide and other air pollutants. Combats the urban heat effect and reduces stormwater runoff.

### GEOTHERMAL WELLS

20 geothermal wells tap into the planet's natural thermostat keeping things cool in the summer and warm in the winter.

### ENERGY RECOVERY VENTILATION

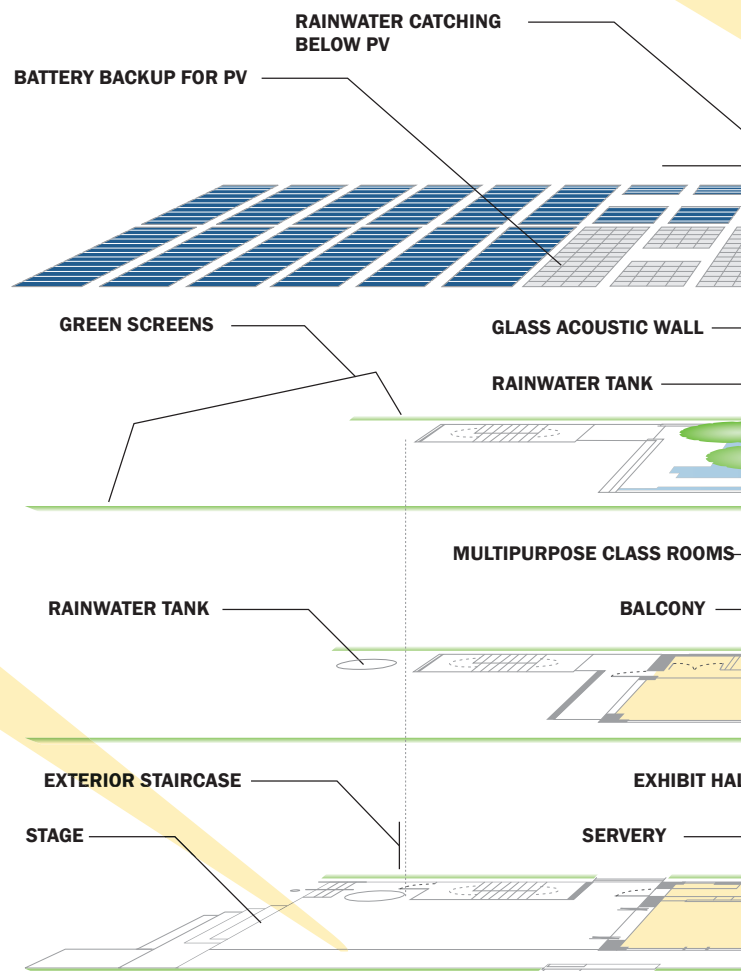
Wind-induced and stack-driven. Strategically placed roof monitors draw stack-induced ventilation air from the building due to the height of the spaces.

### BIOLOGICAL WASTEWATER TREATMENT

Concealed anaerobic and visible aerobic tanks use algae, fungi, bacteria, plants, snails and small fish to clean and treat water from lavatories, toilets, and the dishwasher.

### ECO-CAFE

Serves natural, fair trade, locally grown food on recycled and sustainable place settings. Operates year-round on the roof, with dramatic views of the East River and beyond.



**GREENHOUSE  
VERTICALLY INTEGRATED**

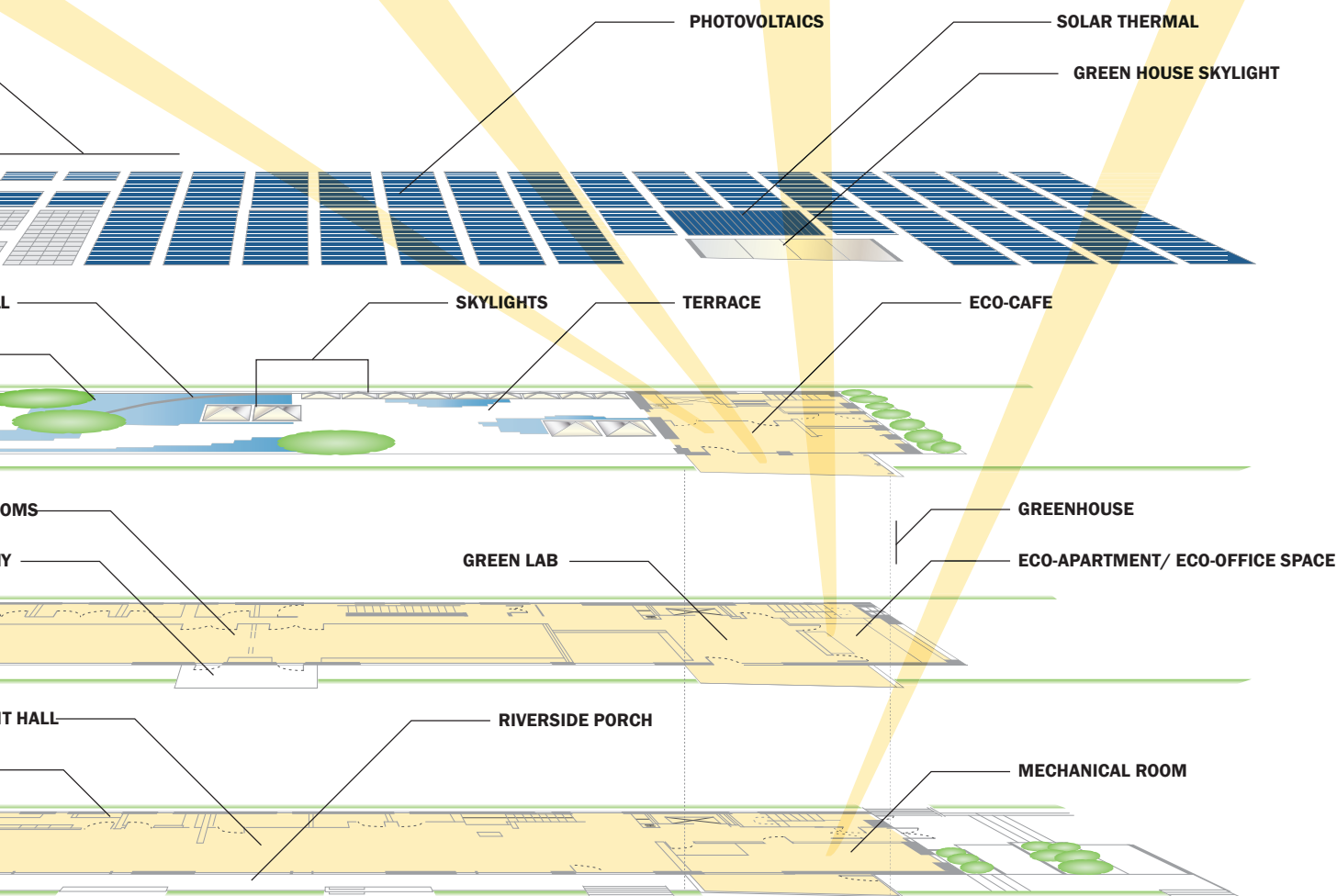
Located on the east side of the building, one of the first of its kind in NYC with a hydroponic greenhouse designed to grow food sold in the Café.

**ECO-APARTMENT/  
ECO-OFFICE SPACE**

Presents visitors with energy-saving and sustainable resources. Demonstrates how households and offices can have a positive impact on the environment.

**MECHANICAL ROOM**

Allows visitors to view an ecologically sound environment with cutaways and transparent walls. Provides a rare look at HVAC and geo-exchange systems.



**PHOTOVOLTAIC ARRAY**

Flying 19' higher than the FDR Drive, the PV roof is the most dramatic view of the shift toward renewable energy in the city. Passed by tens of thousands of commuters daily who can witness firsthand its power.

**RAINWATER GARDEN  
& WETLANDS**

Collects ground-level rainwater. Serves as overflow of rainwater and wastewater systems. Sized to take the surface water from the site's hardscape areas.

**SOLAR CAPTURE**

Light and solar heat gain from north skylight and glare-reduction windows save energy. Hopper windows induce outside air and are managed by systems and/or staff.

**RENEWABLE AND  
RECYCLED MATERIALS**

Used throughout the building structure and interior furnishings. Reduces carbon footprint of others by reusing their refuse.



# PERFORMERS & SPEAKERS

## Solar-Powered Dance Series

### Choreographers

Theodora Boguszewski  
Joseph Celej  
Daniela Hoff  
Mana Kawamura  
Tzu-Ying Lee  
Yesid Lopez  
Meghan McCoy  
Tracie Stanfield  
Mercedes Searer  
Makiko Tamura  
Mariana Valencia  
Mary Ann Wall

### Performers

Colleen Aherne  
Laurel Atwell  
Liza Austria  
Jennifer Berthelot  
Kuan Yu Chen  
Victory Chen  
Kirstan Clifford  
Marissa Frey  
Breegan Kearney  
Brian Lawson  
Saki Masuda  
Natalia Mesa  
Robbie Moore  
Asami Morita  
Tara Nixon  
Jeremy Pheiffer  
Lize-Lotte Pitlo  
Kathryn Rhodes  
Keelin Ryan  
Alana Sampietro  
Ryoji Sasamoto  
Ai Shimatsu  
Sarah Stanley  
Heidi Sutherland  
Mariana Walsh-Doyle

## Sun To Stars South Asian Festival

### Performers

Trina Basu  
Bill Buchen  
Narendra Budhakar  
Jay Gandhi  
Sonali Mishra  
Rohan Misra  
Nitin Mitta  
Bala Skandan  
Arun Ramamurthy  
Nemanja Rebic  
Indrajit Roy-Chowdhury

## Solar-Powered Film Series

*Severed Ways & Out of Our Minds*  
Director Tony Stone  
*The Vanishing of the Bees*  
Directors George Langworthy and Maryam Henein  
*Tapped*  
Director Stephanie Soechtig  
*Fresh*  
Director Ana Sofia Joanes  
*Fuel*  
Director Josh Tickell  
*The Age of Stupid*  
Director Franny Armstrong

### Speakers

Brent Baker  
Graham Bishop  
Derek Denckla  
Jim Fischer  
Chris Harp  
Melissa auf der Maur  
Buck Moorehead  
Liane Newton  
Elizabeth Royte  
William Schwartz  
David Selig  
Grai St. Clair Rice  
Tony Stone  
Carter H. Strickland, Jr.

## Other Events

Amayo's Fu-Arkestra  
araabMUZIK  
Berean Community Drumline  
Vanessa Bley  
Chappo  
Cold Cave  
Annie Dressner  
Hank & Cupcakes  
Harlem Renaissance Blues & Jazz Band  
HEALTH  
Jamal Jackson Dance Company  
Frank Malloy Djembe Ensemble  
Jazzmobile  
Legends of Jazz  
Maluca  
Bill McKibben  
North Highlands  
Oberhofer  
Rude Mechanical Orchestra  
Rutkowski Trio & Friends  
Paul Sachs  
Andrew WK

## NYC the Future Metropolis Speakers

David Benjamin  
Stephen Cassell  
Christopher Collins  
Edward M. Cupoli, Ph.D.  
Martina Decker  
Mark Dorfman  
John Lembo  
Ken Levenson  
Roland Lewis  
Benjamin Linsley  
Jean-Loup Msika  
Ronald Smith  
Richard Yancey  
Peter Yeadon

---

# MAJOR FUNDERS

AECOM	McKissack & McKissack
Anastasia Alexiadis	Mertz Gilmore Foundation
Altpower Inc.	Mizuho USA Foundation
Arup	NBC Universal Foundation
Alexander & Nancy von Auersperg	Caroline Niemczyk
Bollinger	North Star Fund
Broadway Stages	NY City Council Manhattan Delegation
Brookfield Properties	NY City Council Member Dan Garodnick
Con Edison	NY City Department of Cultural Affairs
Judy Gordon Cox	NYSOA
Credit Suisse	NYSERDA
Crystal Windows	O'Connor Davies Munns & Dobbins
Paul & Olga D'Alto	Pinkerton Foundation
Ira W. DeCamp Foundation	Planned Financial Programs, Inc.
Donna DeCostanzo	Quality Metal Stamping
Edmund Fitzgerald & Jennifer Lynch	Irwin Rappaport
FJC Community Foundation	Riverdale Electrical
Gelman Pension Consulting, Inc.	David Rockefeller Foundation
Samuel Goldberg & Sons Foundation, Inc	Ellen Witzling Roff
Grenadier Realty	Helena Rubinstein Foundation
HDR	Alejandro Santo Domingo
Jane & Michael Hoffman	Schmidt Foundation/11th Hour Project
HSBC	Jean & Martin Shafiroff
Bill & Paula Hunnicutt	Janet & Peter Simon
J.C. Kellogg Foundation	Deann & Randy Snook
John Kluge	Tracy & Jay Snyder
Laborer's E.R. Union	Dr. Robert C. and Tina Sohn Foundation
Margo Langenberg	Thor Thors Jr.
Lisa Nilsson Levin	Turner Construction
M&T Charitable Foundation	John A. & Mary Claire Ward Family Foundation
Manhattan Borough President's Office	

# PARTNERS

14th Street Y	Green Faith	NYC Division of Postsecondary Pathways and Planning
350.org	Green Jobs Training Center, Howard Beach	NYC Division of School Facilities
Abyssinian Development Corporation	Green Mountain Energy Company	NYC Economic Development Corporation
Academy of Urban Planning	Greener Media	NYC Human Resource Administration
Alfred E. Smith High School	Greenwich Energy Solutions	NYC HRA/BEGIN Managed Programs
Asian Americans for Equality	Growing Up Green Charter School Camp	NYC Mayor's Office of Long Term Planning and Sustainability
Asser Levy School	GrowNYC Office of Recycling Outreach & Education	NYC Wildflower Week
Baruch High School	Harlem Community Development Corporation	NYS Department of Environmental Conservation
Big Ten Alumni Association	Harlem Education Activities Fund	The Osborne Association
The Brearley School	HBO	Phoenix House
Bronx International High School	Helicon, Inc.	Pratt Center for Community Development
Brooklyn Botanical Gardens Green Bridge Community Garden Alliance	High School for Health and Career Services	Pratt Center Sustainable Houses of Worship
Brooklyn Brewery	High School for International Business and Finance	PS 145 - The Bloomingdale School
Brooklyn International High School	High School for Law and Public Service	PS 187
Buckley School	High School for Media and Communications	PS 226
Build It Green	Humanities Preparatory Academy	Queens Library
Building Performance Institute, Inc.	The Israeli Consulate	Queens Vocational and Technical High School
The 32BJ Thomas Shortman Safety Fund	Jazzmobile, Inc	Rooftop Films
BuildingWorks	Jewish Community Center of Staten Island	Satellite Academy High School
Bushwick Farmers' Market	Jewish Greening Fellowship	School for Global Leaders
Camp Intrepid	Laborers' International Union Of North America, Local 10	School of Cooperative Technical Education
Catherine & Count Basie MS 72	LaGuardia High School	SEEDCO
Center for Sustainable Energy	Loving Day	Snug Harbor Cultural Center
Center For Urban Pedagogy	The Lower East Side Ecology Center	Staten Island Chamber of Commerce
Common Ground	Manhattan Borough President Scott Stringer	Staten Island Economic Development Corporation
Community Environmental Center	Manhattan Chamber of Commerce	STRIVE, Baltimore (MD)
Community Preservation Corporation	Manhattan Comprehensive Night and Day High School	STRIVE, Benton Harbor (MI)
ConEdison	Materials for the Arts	STRIVE, Flint (MI)
Consortium for Worker Education	Mayor's Office of Long Term Planning and Sustainability	STRIVE, Hartford (CT)
Council of New York Coops and Condominiums	Metropolitan Waterfront Alliance	STRIVE, Philadelphia/MCC (PA)
Covenant House New York	Million Trees NYC	STRIVE, East Harlem
Crawfish NY	MS 447	Stuyvesant Cove Park Association
CUNY Building Performance Laboratory	Natural Resource Defense Council	Superintendent's Technical Association of New York
CUNY NYC Solar America Cities	Neighborhood Housing Services of Staten Island	The Ant Farm in the City
Dale Grant Associates/Workforce One	New York Cares	The Cooper Union
District 79	New York Restoration Project	Town and Gardens, Ltd
The Domain Companies	Nontraditional Employment for Women	Umami Garden
East New York Farms	Northern Manhattan Improvement Corporation	United Nations International School
Envirolution	NY/NJ Baykeeper	The Urban Assembly School for Green Careers
Flatbush Caton Market	NYC Accelerator for a Clean and Renewable Economy	Vocational Foundation Institute
Forest Hills Tuv Ha'Aretz CSA	NYC Community Board 3	Vote Solar
Fortune Society	NYC Community Board 6	Weeksville Society
Friends Seminary	NYC Composting Project	West Harlem Group Assistance, Inc.
George Westinghouse High School	NYC Department of Citywide Administrative Services	William E. Grady High School
Green City Challenge	NYC Department of Design and Construction	YMCA Youth Build
Green City Force	NYC Department of Education	
Green Drinks NYC	NYC Department of Educations District 79	
Green Edge Collaborative	NYC Department of Parks & Recreation	

## Board Of Directors

Richard Cherry  
CHAIRMAN  
COMMUNITY ENVIRONMENTAL CENTER

Ellen Witzling Roff  
TREASURER

Karen Ansis  
NEW YORK LANDMARKS CONSERVANCY

Jane Crotty  
ARZT COMMUNICATIONS

Donna De Costanza  
NATURAL RESOURCES DEFENSE COUNCIL

Lawrence Graham  
BROOKFIELD PROPERTIES

Sara Queen  
BROOKFIELD PROPERTIES

Eric Siegel  
NEW YORK HALL OF SCIENCE

Thor Thors  
FIOCCHI/THORS LLC

## Staff

Christopher Collins  
EXECUTIVE DIRECTOR

Anthony Alexander  
GREEN WORKFORCE INSTRUCTOR

Pauline Augustine  
MARKETING ASSOCIATE

Antuan Cannon  
GREEN WORKFORCE INSTRUCTOR

Joe Chavez  
EDUCATOR

Dina Elkan  
EVENTS & MARKETING COORDINATOR

Chris Fowler  
MAINTENANCE

R. David Gibbs  
GREEN WORKFORCE INSTRUCTOR

Sarah Holloway  
SENIOR CONSULTANT

Helen Hooke  
OFFICE ADMINISTRATOR

Daisy Hoyt  
PARK MANAGER

Jaclyn Jablowski  
ENERGY CONNECTIONS INTERN

Sara Jayanthi  
ENERGY \$MART COMMUNITIES COORDINATOR

Max Joel  
ENERGY CONNECTIONS PROGRAM MANAGER

Michael Johnson-Chase  
GREEN WORKFORCE PROGRAM DIRECTOR

James Kinyanjui  
SOLAR ONE LAB SITE MANAGER

Melanie LaRosa  
GRANT WRITER

Max Lerner  
ADMINISTRATIVE ASSISTANT

Abeo Miller  
PRODUCTION ASSISTANT

Abby Morse  
GRANT WRITER

Jamie Paquette  
OPERATIONS MANAGER

Sarah Pidgeon  
EDUCATION COORDINATOR

Roberto Rodriguez  
IT ASSOCIATE

James Ryan  
GRANT WRITER

Diallo Shabazz  
GREEN WORKFORCE DEVELOPMENT DIRECTOR

Esther Siskind  
DIRECTOR OF PROGRAMS

Alex Smith  
EDUCATOR

Mary Tchamkina  
E\$C PROGRAM ASSISTANT

Fronsy Thurman  
EDUCATOR

Angela Tran  
GRAPHIC DESIGN



**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**

**10-15 43rd Avenue  
Long Island City, NY 11101**

**Office Number: 212-505-6050   E-Mail: [info@solar1.org](mailto:info@solar1.org)   Web: [www.solar1.org](http://www.solar1.org)**