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, NYSERDA 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

January 31, 2011
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.
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.
7th Grade Class, Green Design Lab™
7th grade students inspect their school’s boiler room at the School for Global Leaders.

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

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

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

<table>
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<th>Program</th>
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<td>Teacher Training</td>
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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.

**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.
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.
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.
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.

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
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.
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

**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
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 programing. 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.
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.*

**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.
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.
**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-Comverge 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!
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 NYSERDA (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.

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 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 CO₂ 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
**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.
**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.

**RENEWABLE AND RECYCLED MATERIALS**
Used throughout the building structure and interior furnishings. Reduces carbon footprint of others by reusing their refuse.

**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.

**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.

**PHOTOVOLTAICS**
Solar thermal
Green house skylight
Skylights
terrace
Eco-cafe

**GREEN HOUSE SKYLIGHT**

**SKYLIGHTS**

**TERRACE**

**ECO-CAFÉ**

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

**MECHANICAL ROOM**

**GREEN HOUSE**

**GREEN LAB**

**EXHIBIT HALL**

**BALCONY**

**RIVERSIDE PORCH**

**MECHANICAL ROOM**
PERFORMERS & SPEAKERS

Solar-Powered Dance Series

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

Performers
Colleen Aherne
Laurel Atwell
Liza Austria
Jennifer Berthelot
Kuan Yu Chen
Victory Chen
Kirstan Clifford
Mariissa 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
Al 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 Demickia
Jim Fischer
Chris Harp
Melissa auf der Maur
Buck Moorhead
Liane Newton
Elizabeth Royle
William Schwartz
David Seilig
Gral 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

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<td>Manhattan Borough President’s Office</td>
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PARTNERS

14th Street Y
350.org
Abyssinian Development Corporation
Academy of Urban Planning
Alfred E. Smith High School
Asian Americans for Equality
Asser Levy School
Baruch High School
Big Ten Alumni Association
The Brearley School
Bronx International High School
Brooklyn Botanical Gardens Green Bridge Community Garden Alliance
Brooklyn Brewery
Brooklyn International High School
Buckley School
Build It Green
Building Performance Institute, Inc.
The 32BJ Thomas Shortman Safety Fund
BuildingWorks
Bushwick Farmers’ Market
Camp Intrepid
Catherine & Count Basie MS 72
Center for Sustainable Energy
Center For Urban Pedagogy
Common Ground
Community Environmental Center
Community Preservation Corporation
ConEdison
Consolidation for Worker Education
Council of New York Coops and Condominiums
Covenant House New York
Crawfish NY
CUNY Building Performance Laboratory
CUNY NYC Solar America Cities
Culinary Grant Associates/Workforce One
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The Domain Companies
East New York Farms
Envirolution
Flatbush Caton Market
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Fortune Society
Friends Seminary
George Westinghouse High School
Green City Challenge
Green City Force
Green Drinks NYC
Green Edge Collaborative
Green Faith
Green Jobs Training Center, Howard Beach
Green Mountain Energy Company
Greener Media
Greenwich Energy Solutions
Growing Up Green Charter School Camp
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Harlem Community Development Corporation
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HBO
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High School for Law and Public Service
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Jewish Greening Fellowship
Laborers’ International Union Of North America, Local 10
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Loving Day
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Manhattan Chamber of Commerce
Manhattan Comprehensive Night and Day High School
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Mayor’s Office of Long Term Planning and Sustainability
Metropolitan Waterfront Alliance
Million Trees NYC
MS 447
Natural Resource Defense Council
Neighborhood Housing Services of Staten Island
New York Cares
New York Restoration Project
Nontraditional Employment for Women
Northern Manhattan Improvement Corporation
NY/NJ Baykeeper
NYC Accelerator for a Clean and Renewable Economy
NYC Community Board 3
NYC Community Board 6
NYC Composting Project
NYC Department of Citywide Administrative Services
NYC Department of Design and Construction
NYC Department of Education
NYC Department of Education District 9
NYC Department of Parks & Recreation
NYC Division of Postsecondary Pathways and Planning
NYC Division of School Facilities
NYC Economic Development Corporation
NYC Human Resource Administration
NYC HRA/BEGIN Managed Programs
NYC Mayor’s Office of Long Term Planning and Sustainability
NYC Wildflower Week
NYS Department of Environmental Conservation
The Osborne Association
Phoenix House
Pratt Center for Community Development
Pratt Center Sustainable Houses of Worship
PS 145 - The Bloomingdale School
PS 187
PS 226
Queens Library
Queens Vocational and Technical High School
Rooftop Films
Satellite Academy High School
School for Global Leaders
School of Cooperative Technical Education
SEEDCO
Snug Harbor Cultural Center
Staten Island Chamber of Commerce
Staten Island Economic Development Corporation
STRIVE, Baltimore (MD)
STRIVE, Benton Harbor (MI)
STRIVE, Flint (MI)
STRIVE, Hartford (CT)
STRIVE, Philadelphia/MCC (PA)
STRIVE, East Harlem
Stuyvesant Cove Park Association
Superintendent’s Technical Association of New York
The Ant Farm in the City
The Cooper Union
Town and Gardens, Ltd
Umami Garden
United Nations International School
The Urban Assembly School for Green Careers
Vocational Foundation Institute
Vote Solar
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