LAGI

Powered by Art

Middle School and High School

2015–2016
Dear Innovator,

Thank you for joining the growing Land Art Generator Initiative community!

We are thrilled to be working with so many partners around the world, and we are thrilled to be working with you.

Let’s collaborate to solve the critical issues of the 21st century by taking a positive and empowered approach. Working together we can build a global community of young people who are inspired and equipped to design the landscape of our clean energy future.

In addition to this document, we encourage you to explore the LAGI Toolkit where you will find helpful exercises to guide you through the process of designing an artwork that generates clean energy for California.

We’re excited to see your ideas!

Rob and Elizabeth

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The main goal of the Land Art Generator Initiative (LAGI) is to design and construct public art installations that have the added benefit of utility-scale clean energy generation. These artworks will continuously distribute renewable electricity into the electrical grid, with the potential to provide power to thousands of homes.

Every two years we invite professionals and university students from around the world to design what these artworks might look like and how they might function. Since the first LAGI design competition in 2010, LAGI has collected over 600 design ideas from 60 countries.

This year we have included this Youth Design Prize in order to inspire the minds of young people around the world! Using this document and the LAGI Toolkit, students, classrooms, and youth groups (anyone under 18 years old) are invited to design a public artwork that generates clean energy for the City of Santa Monica, California.

Learn more at www.youth.landartgenerator.org
THE CONTEXT

The people of Santa Monica care deeply about the environment. Protecting nature informs every decision that the City makes, and they are setting a strong example for other cities on issues such as waste management, sustainable development, stormwater harvesting, and green building.

On October 23rd, 1998 the Pacific Wheel at the Santa Monica Pier installed solar panels setting the Pier down a sustainable path. Almost two decades later, the solar panels continue to reduce the carbon footprint of the park.

Inspired by this success story, LAGI invites you to help the City of Santa Monica power more of the Pier with renewable energy. This will mean providing clean electricity to the Carousel and to other Pacific Park amusement rides and concessions.

To generate that much electricity will take more space than the approximately 1,500 square feet of panels that power the Pacific Wheel lighting. How can the energy generation technology become a part of the park itself? Will the power come from solar energy, wind energy, or a combination of both? Can the ocean waves and tide be a source of energy?

THE CHALLENGE

Can renewable energy technologies become a part of the Santa Monica Pier experience? How can they generate electricity in a way that becomes a new popular attraction for the visitors to the Pier?

To answer these questions the City of Santa Monica is turning to you.

A 5+ acre area (226,000 square feet) next to the Pier has been identified as the site for an energy-generating installation that can help power the Pier in a way that is renewable and not harmful to the environment.

This is your challenge: Design a renewable energy installation that provides clean electricity to the Santa Monica Pier and that also fills visitors with a similar sense of wonder and excitement as do the other attractions at the Pier.

Think about your renewable energy installation as a work of public art. There are no limits on what kind of technology you can incorporate into your artwork and few limits on your expression.

The only restrictions to your imagination are those listed in the “Design Brief” (see pages 11-12).

We recommend that you take advantage of our LAGI 2016 Toolkit, which provides activities, education, and inspiration to spark your imagination. It will lead you step-by-step through the design process so that you will arrive at the end with a complete and qualified LAGI 2016 Youth Design Prize submission.

Using the Toolkit is not a requirement for entering a submission to the Youth Prize.
One of the Santa Monica Pier’s longtime supporters was a woman named Colleen Creedon. She helped rally the community to save the Pier from demolition in the early 1970s and even lived in an apartment above the merry go-round.

In the 1970s Colleen dreamed of making the Santa Monica Pier completely sustainable. She enlisted architect Harry Newman to create a rendering of a 100% sustainable Pier. This drawing from 1978 is full of fun ideas about how renewable energy can be a part of the constructed world around us. Maybe it will inspire you as work on your design. You won’t be working on the Pier, but instead on the beach and coastal waters directly beside it.
You’ll be designing your artwork for the space within the dashed line—the beach area and coastal waters next to the Santa Monica Pier. It’s a vibrant place where people come to play, listen to live music, relax, and enjoy the natural world.
Your proposal for an artwork must be designed as a three-dimensional form that includes at least one kind of renewable energy technology. In your written description tell us what technology you’ve integrated and why.

How will your artwork fit onto the existing design site? How will people interact with it? Make sure that you show how big your artwork is (is it at the right scale?). In your sketches, write down some of the dimensions in feet or meters. Make sure that you haven’t gone outside of the site boundary line!

In order to be eligible to win, your entry to the LAGI 2015–2016 Youth Design Prize must clearly show us that you’ve addressed all of the four items listed here.

Develop a message that you want to communicate to the people who will come to see your artwork (this is sometimes called the “concept”). Your message or concept can be absolutely anything you can imagine. Tell us about it in your written description.

How will your artwork relate to the natural world? Think about where the materials came from that you would use to build your full-scale artwork. Does your artwork disturb habitat of any animals, birds, or insects? Or does it provide new homes for wild creatures? Put some of these thoughts down in your written description.
HOW TO SUBMIT YOUR DESIGN
STEP BY STEP DIRECTIONS

1. Visit the “Upload Your Entry” page at www.youth.landartgenerator.org
2. Click the “Begin” button
3. Fill in all of the required fields on the first page, including:
   - Student names (list all participants)
   - Age of oldest participant on the team (all participants must be under 18)
   - Name of school, school district, or after-school organization
   - Location of school, school district, or after-school organization
   - City
   - State
   - Country
   - Name of teacher or mentor
   - Phone number of teacher or mentor
   - Email address of teacher or mentor
   - Title of your artwork
   - Technology used in your design
4. Click the “Continue” button
5. For each required document, click the “Browse” button to locate the file on your local computer. Please use the naming conventions shown on this page.
6. When all files have been uploaded, click the “Finish” button. That’s it!

FINAL ENTRY REQUIREMENTS *

1. One JPG image that explains how your proposal works. This could be a plan, section, elevation, detail diagram, or a graphic layout that includes a combination of these.
   Name the file: title of artwork_001.jpg
   For example, if your project was titled Solar Hourglass, the file name would be: solarhourglass_001.jpg

2. One JPG rendering, perspective drawing, or photograph of your prototype that shows what it would be like to experience your proposal, either from a distance or from within the artwork.
   Name the file: title of artwork_002.jpg

3. One more JPG image of your choice. This could be another rendering, or another diagram.
   Name the file: title of artwork_003.jpg

4. One text description of your idea and artistic concept (maximum 800 words)
   Name the file: title of artwork_text.doc

* JPG images should be between 3Mb and 15Mb. Please do not exceed 20Mb for any one image.

IMPORTANT: Do not include any identifying information (like your name or the name of your school) in your images or text file! We will assign an identifying code to your files when you upload them.

SCHEDULE

Have you put together a team?
AUG 15 2015
SEPT
OCT
NOV
DEC
JAN 2016
FEB
MARCH
APRIL
MAY 15 2016

Youth Prize opens!
Have you thought about what renewable energy technologies might be integrated into your artwork? It’s time to start thinking about submitting your ideas!

What do you know about the design site? What scale of artwork might be the most successful?

Have you read the Art Toolkit?

What’s your favorite activity in the Toolkit?
Be sure to email the LAGI team if you have any questions!

MARCH 2016
Your ideas in an exhibition!

IMPORTANT: Do not include any identifying information (like your name or the name of your school) in your images or text file! We will assign an identifying code to your files when you upload them.
MEET THE TEAM

Rebecca Ansert Ehemann
Rebecca Ansert Ehemann is the founder and principal of Green Public Art Consultancy. Her consultancy partners with progressive public and private agencies, artists, architects and urban developers in the U.S. and abroad, to increase the aesthetic appeal of new construction and city planning with site-specific public art. Her work specializes in the integration of public art into green building projects and provides comprehensive project management services for both public and private spaces including conceptual programming, artist and material selection, as well as oversight of fabrication, installation and maintenance of artworks. Her project’s have been twice selected in the Top 50 Public Art Projects of the Year by the Americans for the Arts Public Art Network (2008, 2012). She received a master’s degree in Public Art Studies from University of Southern California.

Robert Ferry, RA, LEED AP BD+C, & Elizabeth Monoian, MFA
Founding Co-Directors of LAGI
Robert is the founding co-director of the Land Art Generator Initiative and Studied Impact Design. His consulting work is focused on the design of net-zero and net-positive environments that achieve complete harmony with their local and global environments and with the people who use them. He has contributed to many high-profile green building projects around the world, and his design work has been featured in “Popular Science” magazine and other publications.

Elizabeth is the founder and director of Society for Cultural Exchange, a non-profit organization that is developing international exchanges between communities, academics, and artists. Under SCE she is the founding co-director of the Land Art Generator Initiative, which has brought together thousands of creatives from around the world. Elizabeth is an interdisciplinary artist and designer whose work has been screened and exhibited widely in international venues. She received an MFA from Carnegie Mellon University and has taught in universities around the world. Their publications include “Regenerative Infrastructures,” “The Time is Now: Public Art of the Sustainable City,” “New Energies,” “Art-Energy Flash Cards,” and “A Field Guide to Renewable Energy Technologies.”

Katie Henry, B.S. in Education and M. Ed in School Leadership
Katie Henry is a licensed public school educator and administrator, receiving both her B.S. in Education and M. Ed in School Leadership from Miami University in Oxford, Ohio. Katie has won numerous awards for her teaching including a 2015 ISTE Making IT Happen award and the 2015 ITIP Ohio Outstanding Technology Using Teacher of the Year award. Katie’s transformational work with students of all ages emphasizes interdisciplinary, project-based learning opportunities infusing STEAM and 21st century learning practices. Most recently, Katie worked to develop and lead a series of renewable energy themed STEM events in her school district, with over 500 students attending the events combined. Katie also has several years experience writing children’s book reviews for Library Media Connection Magazine, developing intergenerational programming for retirement communities, and leading outdoor education initiatives in her community.

Shaun Tomaszewski, MED, Bphil
Shaun is currently serving over 26,000 students, as the K-12 STEAM Education Coordinator of Pittsburgh Public Schools. He earned his BPhil degrees in Microbiology and Neuroscience and a MED in Science Education from the University of Pittsburgh. He is currently working on a PhD in Administrative and Policy Studies, also at Pitt, focusing on how education leaders can create and sustain organizational cultures that support teaching and learning. Always a teacher at heart, Shaun currently holds teaching positions at the University of Pittsburgh in two schools. In the School of Health and Rehabilitation Sciences, he teaches courses in Physiology and Pathology, and in the Department of Geology, he teaches a course on Environmental Sustainability.

Sandra Preiss
Sandra Preiss has a diverse professional portfolio that includes classroom teaching, community-based education, and teacher education. She has led innovative, educational initiatives across several organizations at the state, private, and federal levels. For the past five years she has worked for the Montgomery County Educational Service Center as the Coordinator for the Dayton Regional STEM Center. She has expertise in STEM (science, technology, engineering, and math) education methods, teacher training, and educator assessments. Her role as Coordinator includes project management, industry and collegiate collaboration, grant writing, innovation methods, strategic planning and curriculum generation. She holds a Bachelor’s Degree in secondary life science education from The University of New Mexico and an interdisciplinary Master’s Degree specializing in Engineering Innovation and Professional Leadership from The University of Dayton.
GOALS
Integrate 21st century skills: critical-thinking, collaboration, creativity, and communication
Teach energy literacy
Teach visual literacy
Build a global community of young people who are inspired and equipped to design the landscape of our energy future
Introduce young people to unique STEAM (science, technology, engineering, art, math) programming

SHARING OF YOUR IDEAS
Submissions published on LAGI website and in book form
Exhibitions

TOOLS
Pencil
Paper
Sculpting/modeling materials
Computer (optional)
3D modeling software (optional)

ELIGIBILITY
Age 18 and below

FINAL ENTRY REQUIREMENTS
1. One diagram image that explains how your proposal works.
2. One rendering or perspective image that explains what it would be like to experience your proposal, either from a distance or within the artwork. This can be a drawing, computer rendering, or a photo of your physical 3D prototype.
3. One image file of your choice with additional diagram(s) or perspective drawing(s).
4. One text description of your idea and artistic concept (maximum 800 words)

AVAILABLE FOR FREE DOWNLOAD AT www.youth.landartgenerator.org
LAGI Toolkit
Field Guide to Renewable Energy Technologies
Art+Energy Flash Cards
Location Plan and Site Boundary Photos

SUPPORT
Email
Phone
Skype/video workshops
Online Q&A

PRIZE INFO
$3,000 USD in prize money will be awarded by the Selection Committee to one Middle School Entrant.
$3,000 USD in prize money will be awarded by the Selection Committee to one High School Entrant.
Refer to the Terms & Conditions for more information.

IMPORTANT DATES
August 15, 2015 Competition opens
May 15, 2016 Competition closes
October 2016 Award ceremony in LA

MEETS THESE ACADEMIC PRACTICES
Make sense of problems and persevere in solving them
Model with mathematics
Attend to precision
Use appropriate tools strategically
Integrate the engineering design process

PARTNERS
WE ARE HERE TO HELP

You can email us, call us, write us a letter in the post, or Skype us.

If there is another way that is easier for you to communicate with us please let us know—we’ll make it happen!

We would love to visit your classroom and provide a workshop. We can do this virtually through a video conference, Skype call, or possibly even in person! Visit the website to schedule free workshops using our online calendar.

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(this will come directly to Robert and Elizabeth)

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TERMS AND CONDITIONS

Please see
www.youth.landartgenerator.org