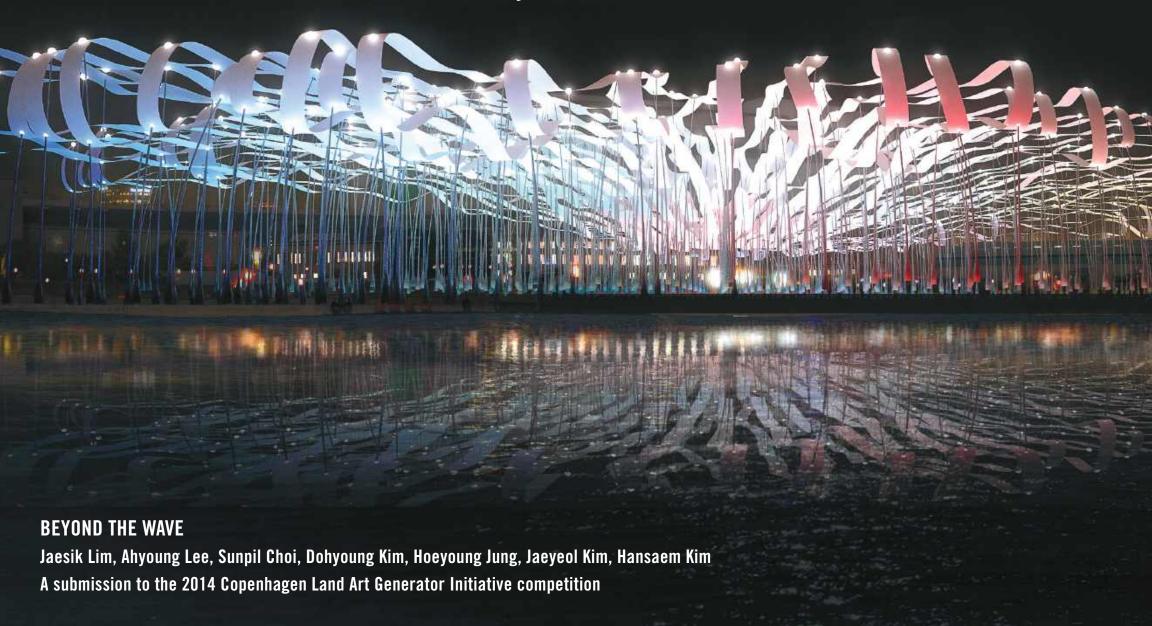
# www.landartgenerator.org land art generator initiative

Elizabeth Monoian & Robert Ferry





= land art generator initiative

**Tejo Power Station**Various engineers and architects
Lisbon



Thermal Power Plant with Rice Fields
Bruno Barbey
Hadong, South Korea, 2007





U.S. Airforce Solar InstallationAirman 1st Class Nadine Y. Barclay2007



**Tahachapi Wind Farm** Henning Leweke California, 2001

The Land Art Generator Initiative (LAGI) has brought together a network of architects, scientists, landscape architects, and engineers in a first of its kind collaboration with cities, corporations, and developers to design renewable energy installations that are also large-scale works of art.

RENEWABLE ENERGY CAN BE BEAUTIFUL



LAGI has held five free international design competitions in partnership with private & public entities. The LAGI portfolio includes 1,000 submissions representing more than 60 countries.

#### LAGI 2010 DUBAI & ABU DHABI









LAGI 2010 at the World Future Energy Summit 2011

**SUPPORT** 



#### LAGI 2012 FRESHKILLS PARK



**PARTNERS** 









#### SUPPORT

Horne Family Foundation National Endowment for the Arts



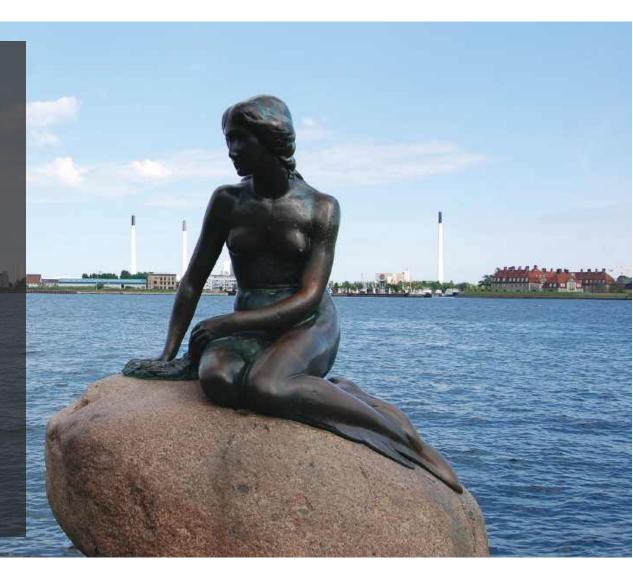
#### **PUBLICATION SUPPORT**



#### LAGI 2014 COPENHAGEN

## Connie Hedegaard European Commissioner for Climate Action

"When it comes to renewables it's not a question of nice to have. The world of the 21st century needs to have more renewables. We have seen here in Denmark that it is doable. We see it in Europe. But I think in order to scale things up, it would be so good to have some more input from artists, from creative thinking people, who know how to landscape things in a better manner. Who can show attractive visions. Who can show that to take climate change seriously it not about gloom and doom—it can be a positive vision. It can create beauty. It can create something that all of us would like to be a part of."



IT UNIVERSITY OF COPENHAGEN
REFSHALEØENHOLDING











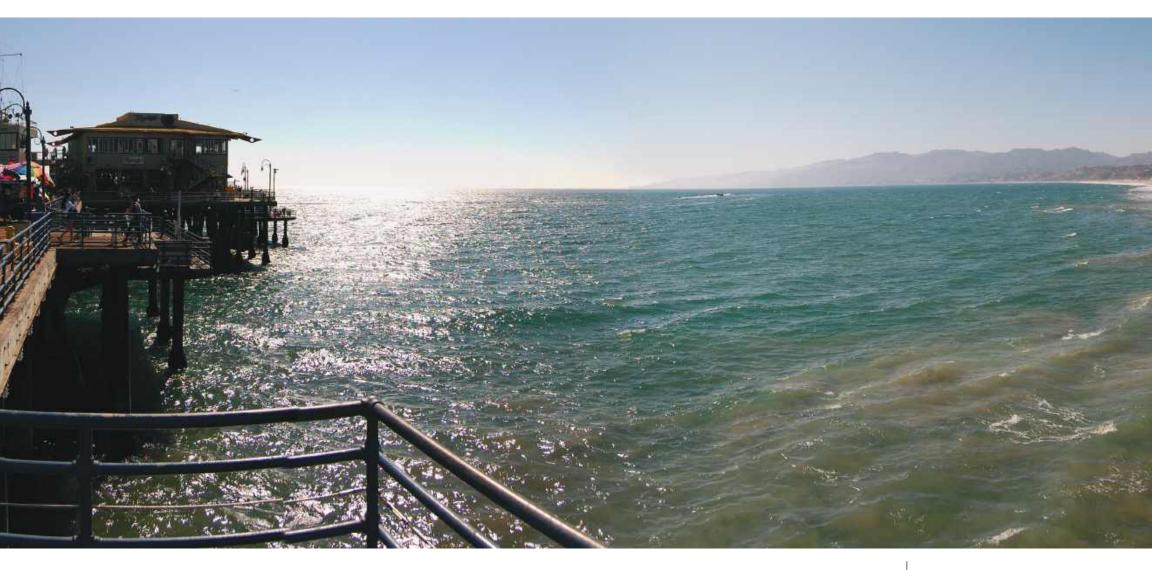
The Capital Region of Denmark







### LAGI 2016 SANTA MONICA



#### **PARTNERS**



















**PUBLICATION SUPPORT** 

Elizabeth Firestone Graham Foundation

#### LAGI 2018 MELBOURNE



SPONSORED AND HOSTED BY



**LAGI 2018 PARTNERS** 









## polycrystalline solar panels

Conversion Efficiency 22%

Capacity Factor 15%–20%

(depending on site conditions)





Images from Wikipedia

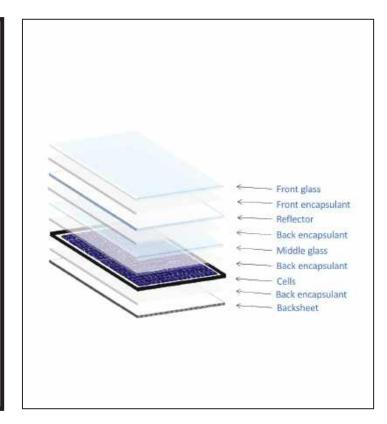


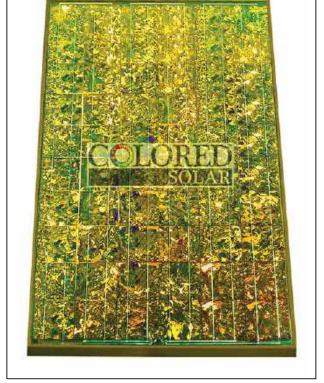
#### polycrystalline solar panels - color tinted

#### Conversion Efficiency 15%-18% (depending on type)

#### **Capacity Factor** 15%–20%

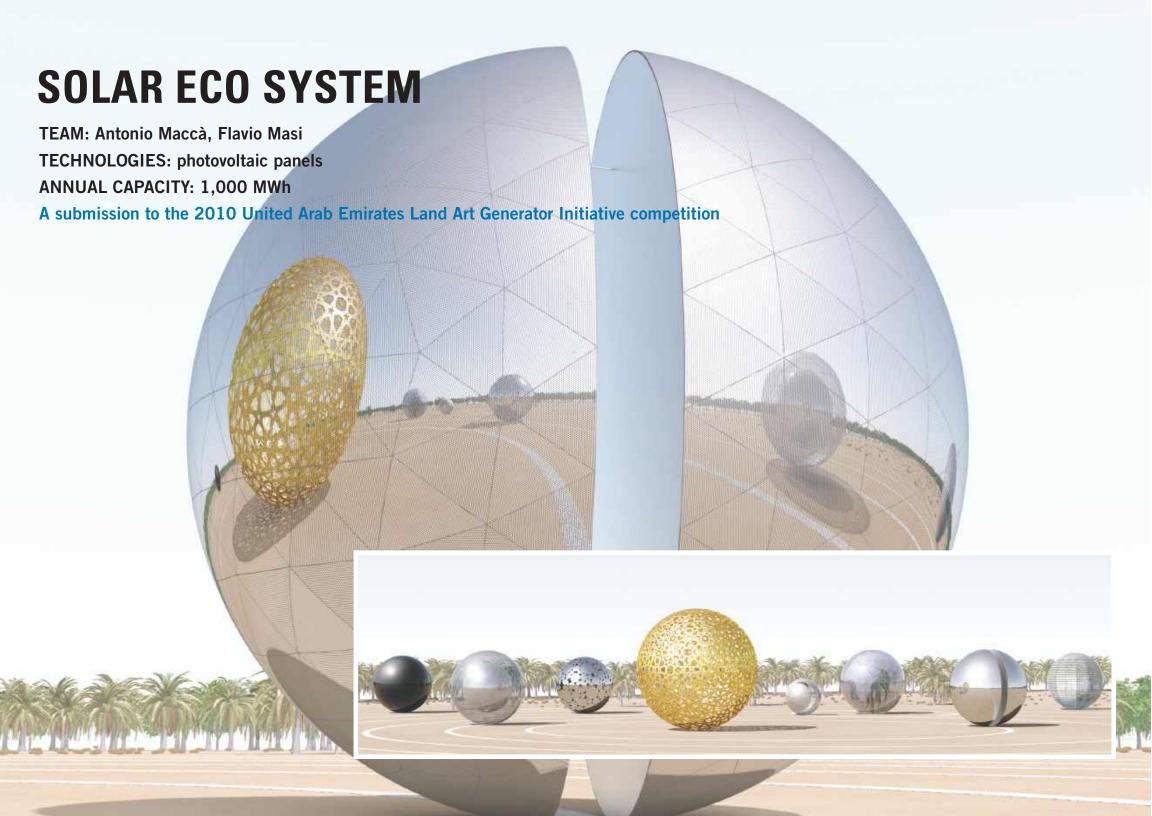
(depending on site conditions)

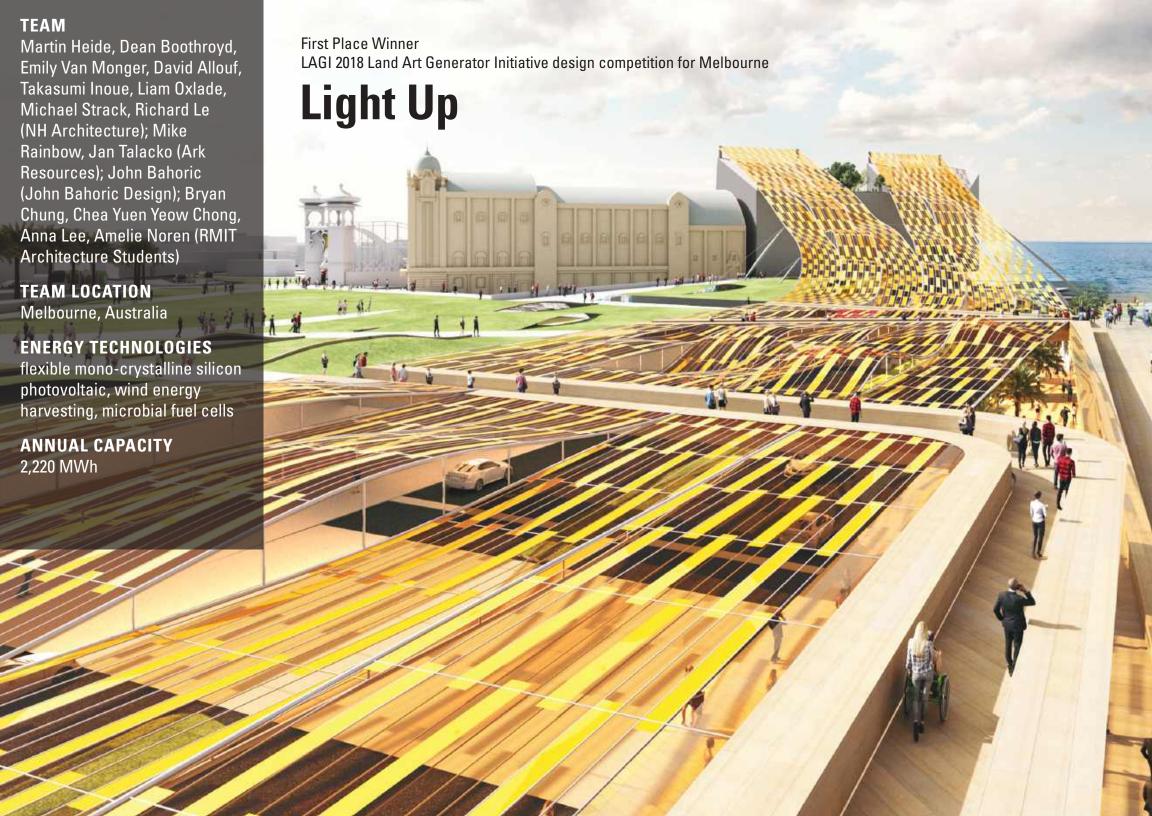




Solaxess coating application can create any color of solar panel with minimal impact on efficiency

Image from Colored Solar's Product Literature





flexible thin film (0PV)

**Conversion Efficiency** 

8%-12%

Capacity Factor 15%-20% (depending on site conditions)

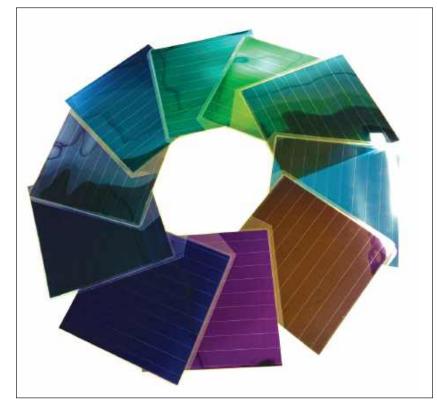


Image courtesy of Heliatek



Image courtesy of Belectric OPV (Solarte™)



A submission to the 2014 Copenhagen Land Art Generator Initiative competition

concentrated solar power thermal (CSP)

**Conversion Efficiency** 20%-30%

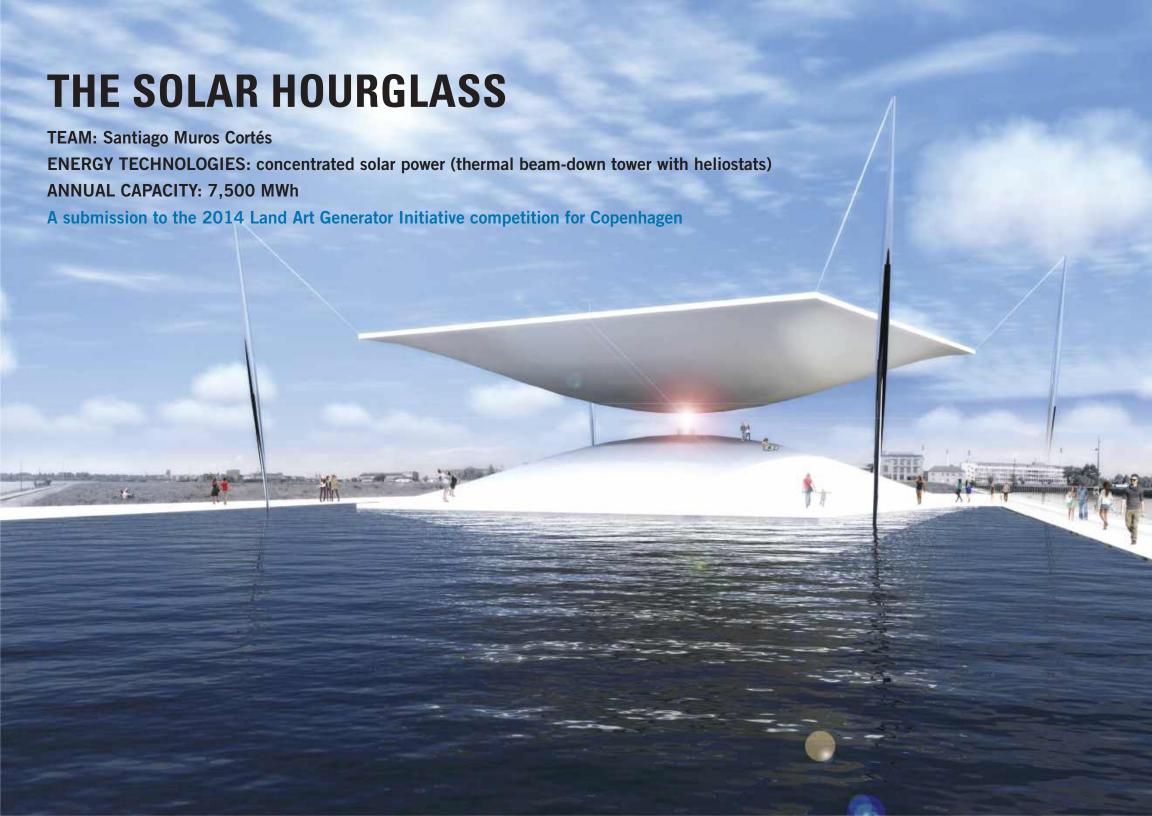
**Capacity Factor** 20%-35%

(depending on type and site conditions)



Beam-down point-focus CSP heliostat array at Masdar

Image courtesy of Lens Online from an interview with Marwan Basem Mokhtar





TEAM: Concept and Design Atelier dna: Darío Núñez Ameni & Thomas Siegl; Narrative and Poetics Gabrielle Jesiolowski;

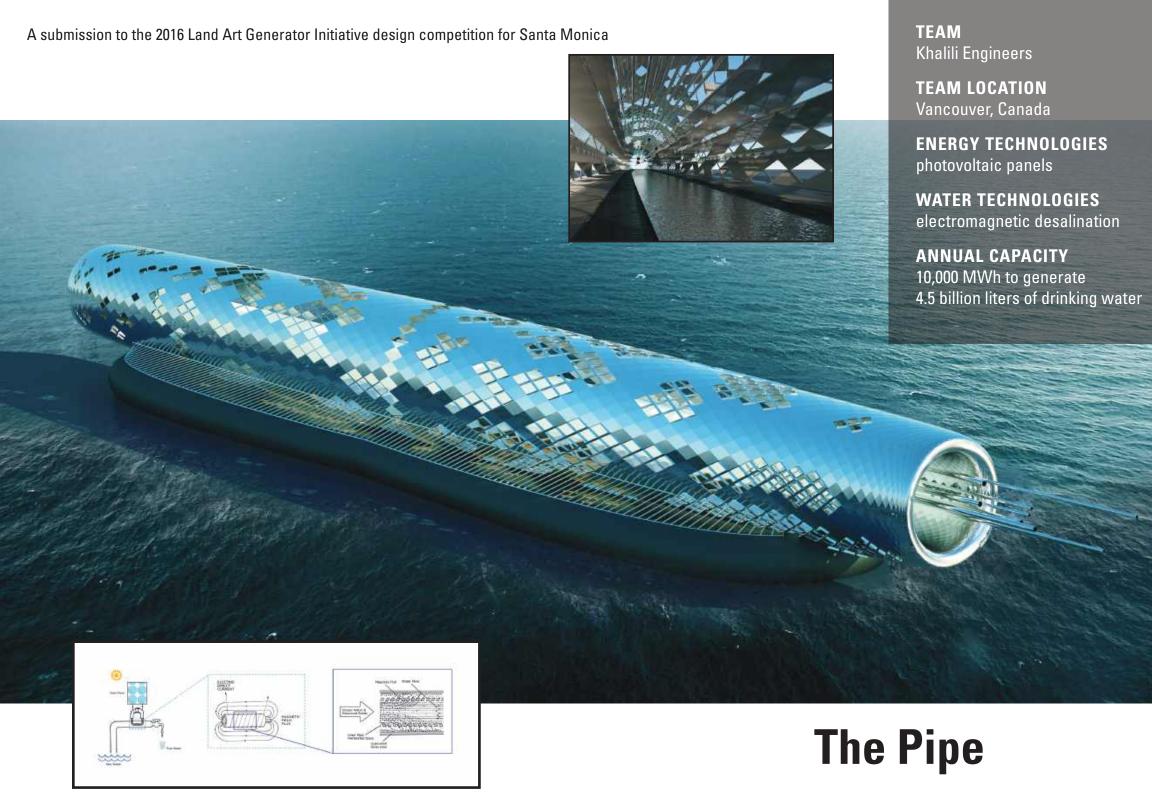
Structure and Engineering; ISSE Innovative Structural and Specialty Engineering: Radhi Majmudar PE;

Ecology and Renewable Energy Strategy eDesign Dynamics: Ian Lipsky

**ENERGY TECHNOLOGY:** piezoelectric discs, linear alternator

**ANNUAL CAPACITY: 20,000 MWh** 

A submission to the 2010 Land Art Generator Initiative competition for United Arab Emirates



## La Monarca a solar mural artwork



Artwork by Cruz Ortiz

#### **PARTNERS**

























## ART + ENERGY CAMP (2015)

People think Homewood is a bad place to be, but the kids and builders are making a solar panel artwork so that people will not judge Homewood because of some other stuff that happens. We are opening a door of opportunity for Homewood and as a community we are trying to make Homewood a better place.

**Terrell Williams (age 11)** 

"Renaissance Gate" means to me that once you walk through it you will come into a completely new Homewood. A new community without fear, without poverty, and without violence.

Jordan Blackwell (age 14)

ART+ENERGY CAMP 2015 WAS A PROJECT OF Land Art Generator Initiative Conservation Consultants, Inc. Homewood Renaissance Association WITH GENEROUS SUPPORT FROM
Heinz Endowments
Google Community Grants Foundation
RK Mellon Foundation
Three Rivers Community Foundation



## ART + ENERGY CAMP

4–6 weeks

Field trips

Lessons in energy science

Lessons in energy justice + energy democracy

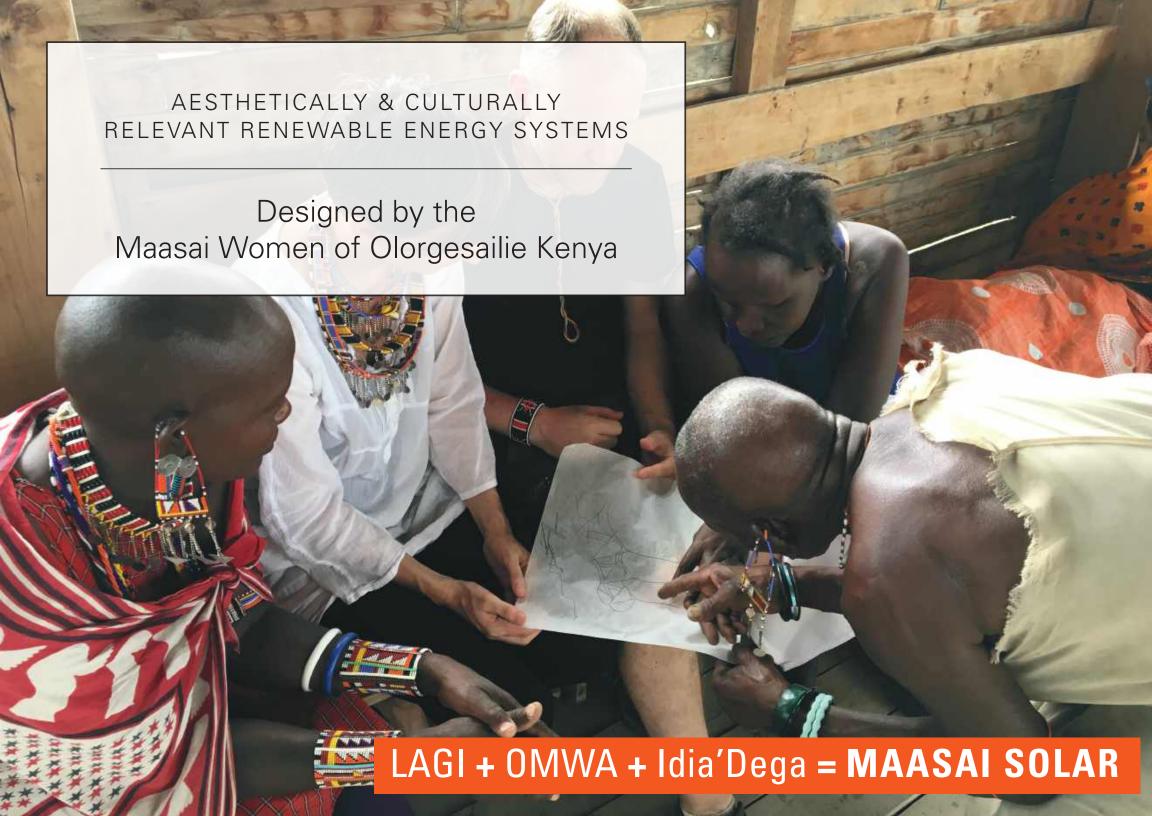
Design process

**Guest presentations** 

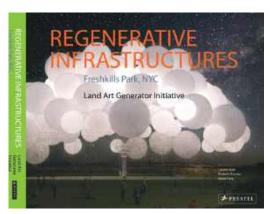
Hands on with construction of a renewable energy artwork

Final outcome: a built solar sculpture

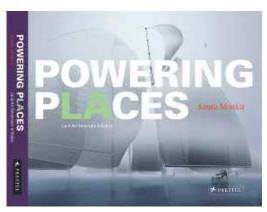


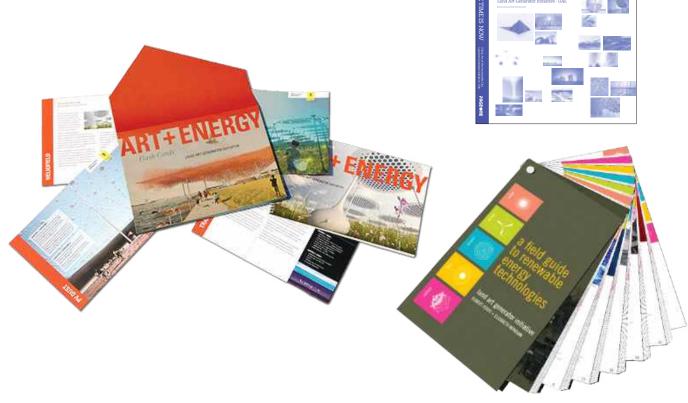


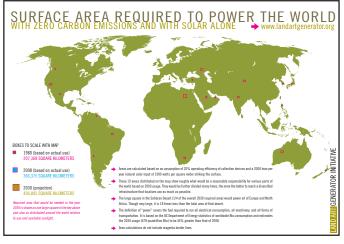
### Selected LAGI Educational Materials

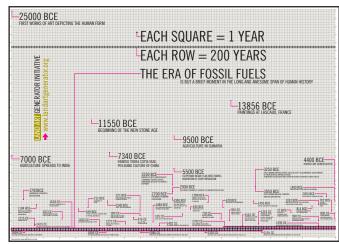












THE TIME IS NOW





#### **Land Art Generator Initiative**

Elizabeth Monoian & Robert Ferry

LAGI FOUNDING DIRECTORS

lagi@landartgenerator.org

www.landartgenerator.org

+1 412 996 4906