LAND ART GENERATOR
Regenerative Design and Community Heritage

Penelope Boyer
Robert Ferry & Elizabeth Monoian
Susana Segura
Stephen Lucke
PUBLIC ART + RENEWABLE ENERGY + LIVING BUILDINGS AND CITIES + INTEGRATED SYSTEMS

= 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 Installation
Airman 1st Class Nadine Y. Barclay
2007

Tahachapi Wind Farm
Henning Leweke
California, 2001
Renewable energy installations that are also large-scale works of art.
Six international design challenges
Partnership with private & public entities
Over 1,000 submissions
80+ countries
LAGI 2010 DUBAI & ABU DHABI

SITE 1
Adjacent to Ras Al Khor Wildlife Sanctuary

SITE 2
Between Yas and Saadiyat Islands

SITE 3
Airport Road Near the Masdar City Site

LAGI 2010 at the World Future Energy Summit 2011

SUPPORT

Masdar
A Mubadala Company
LAGI 2012 FRESHKILLS PARK

PARTNERS

Freshkills Park Alliance
INSTITUTE FOR URBAN DESIGN
NYC Parks

SUPPORT
Horne Family Foundation
National Endowment for the Arts

PUBLICATION SUPPORT

Furthermore:
a program of the J.M. Kaplan Fund
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.”
DESIGN THE FUTURE OF FLY RANCH


lagi2020flyranch.org
TECHNOLOGY TYPE
polycrystalline solar panels

Conversion Efficiency
22%

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

Images from Wikipedia
ENERGY DUCK

TEAM
Harath Pochae, Adam Khan, Louis Leger, Patrick Fryer

TECHNOLOGIES
photovoltaic panels (Panasonic HIT or similar), hydraulic turbines

ANNUAL CAPACITY
400 MWh

A submission to the 2014 Land Art Generator Initiative design competition for Copenhagen—LAGI 2014.

Energy Duck explains the “Duck Curve” related to renewable energy and old-fashioned power grids.
Solaxess coating application can create any color of solar panel with minimal impact on efficiency.

Image from Colored Solar’s Product Literature
SOLAR (ECO) SYSTEM

TEAM
Antonio Maccà, Flavio Masi

TECHNOLOGIES
photovoltaic panels

ANNUAL CAPACITY
1,000 MWh

A submission to the 2010 Land Art Generator Initiative design competition for Dubai/Abu Dhabi—LAGI 2010.
LIGHT UP

TEAM
Martin Heide, Dean Boothroyd, Emily Van Monger, David Allouf, Takasumi Inoue, Liam Oxlade, Michael Strack, Richard Le (NH Architecture); Mike Rainbow, Jan Talacko (Ark Resources); John Bahoric (John Bahoric Design); Bryan Chung, Chea Yuen Yeow Chong, Anna Lee, Amelie Noren (RMIT Architecture Students)

TECHNOLOGIES
flexible mono-crystalline silicon photovoltaic, wind energy harvesting, microbial fuel cells

ANNUAL CAPACITY
2,220 MWh

First Place Winner to the 2018 Land Art Generator Initiative design competition for Melbourne—LAGI 2018.
THE PIPE

TEAM
Khalili Engineers

TECHNOLOGIES
photovoltaic panels, electromagnetic desalination

ANNUAL CAPACITY
10,000 MWh to generate 4.5 billion liters of drinking water

A submission to the 2016 Lund Art Generator Initiative design competition for Santa Monica—LAGI 2016.
TECHNOLOGY TYPE
flexible thin film (OPV)

Conversion Efficiency
8%–12%

Capacity Factor
15%–20%
(depending on site conditions)
BEYOND THE WAVE

TEAM
Jaesik Lim, Ahyoung Lee, Sunpil Choi, Dohyoung Kim, Hoeyoung Jung, Jaeyeol Kim, Hansaem Kim

TECHNOLOGIES
organic thin film

ANNUAL CAPACITY
4,229 MWh

A submission to the 2014 Land Art Generator Initiative design competition for Copenhagen—LAGI 2014.
# TECHNOLOGY TYPE

**concentrated solar power thermal (CSP)**

**Conversion Efficiency**
20%–30%

**Capacity Factor**
20%–35% (depending on type and site conditions)

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Beam-down point-focus CSP heliostat array at Masdar

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

TEAM
Santiago Muros Cortés

TECHNOLOGIES
concentrated solar power (thermal beam-down tower with heliostats)

ANNUAL CAPACITY
7,500 MWh

First Place Winner to the 2014 Land Art Generator Initiative design competition for Copenhagen—LAGI 2014.
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)
La Monarca  A SOLAR MURAL ARTWORK

Artwork by Cruz Ortiz, Art Direction by Penelope Boyer

PARTNERS

SUPPORTERS
En Aquellos Tiempos
Fotohistorias del Westside
A SOLAR MURAL ARTWORK

Artwork by Adriana Garcia
Art Direction by Penelope Boyer
Poetry by Carmen Tafolla

PARTNERS
Mr. Vega’s 5th grade class at JT Brackenridge
JT Brackenridge
Esperanza Peace & Justice Center
Community elders from the Westside

SUPPORTERS
Awesome San Antonio
Alice Kleberg Reynolds Foundation
1948:
Young boy wears a ribbon and holds a lollipop for winning the "Shortest Tail" competition with his goat at the Mexican Christian Institute on 1214 Colina Street.