

Coyote Mountain: "Renewable Energy Can be Beautiful"

Coyote Mountain– a winner of the Fly Ranch Design Challenge, a collaboration between the Land Art Generator Initiative (LAGI) and Burning Man.

What if Burning Man's purchase of Fly Ranch really fulfilled its promise?

What if Burning Man thinkers could convene year-round?

What if Burning Man culture could survive and thrive off-grid– even if the lights go out elsewhere?

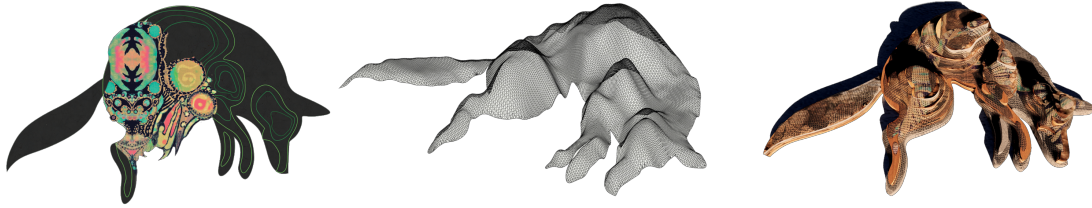
Coyote Mountain is a 250,000 sq ft, climate-controlled facility– essentially a small town– under a solar glass skin. From the ground, this energy-generating sculpture looks like a mountain, blending into the Calico Range behind it. From orbit, it looks like a coyote pouncing on its next meal. Inside, it provides laboratories, artist studios, greenhouses, conference center, galleries, basic living quarters, library, cafes, and a lot of room for hundreds of people to think, talk, experiment and plan.

PROPOSED RENEWABLE ENERGY TECHNOLOGY:

- 5,256 MW of electricity-- plus hot water and heat-- will come from 3 or 4 off-the-shelf Climeon Binary Geothermal units.
- 340 MW provided by ClearVue PV Luminescent Solar Concentrators (the skin).
- .5 MW from Vortex Bladeless turbines channeled through a ground floor open-return wind tunnel.
- Power storage by Tesla Powerpack Microgrid.

MATERIALS:

Conventional construction methods, minimizing concrete, but including locally-sourced, recycled Trex for cladding and decking, and rammed earth in key locations, to provide beauty, longevity and a hands-on building experience for community involvement with unskilled volunteers.



PROCESS:

We are currently in the schematic phase of design. We have a winning concept and desired technology; we look forward to adding an experienced team of architects and planners to move the project to the next phase– the actual Design Development and Cost Analysis. We are also asked to build a small prototype at Fly Ranch in the next year or so.

COST:

A project of this size has numerous inputs that can be adjusted to affect final cost. Our current ball-park estimate of final cost is 40-60 million dollars, depending on desired finishes, amenities and the ideas of major donors.

WE SEEK:

- 1.) Funds to build the prototype (design not yet complete, but ~\$50,000)
- 2.) Recommendations and introductions to professionals who may want to be involved: Architectural Designers, Architect of Record, Landscape Architect, Civil, Structural & MEP engineers, Lighting designers, energy consultants and other technology specialists.
- 3.) A willingness to review our next, more complete, proposal next year.

2 MINUTE VIDEO TEASER:



FULL COMPETITION ENTRY:



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STARTUP COYOTES:

Dusty Mikel, Concept, Creative Direction, Project Management
Jane Maru, Textile Designer & Video Artist, Visual Research
Anna Meloyan, Architectural Consulting & Visualization