

Tierra Nueva: A Community Oriented Eco-village and Demonstration site
Phase 1

By John Lago & Ethan Coy

www.TierraNuevaPR.com

Site Coordinates:

18°04'53.4"N 66°36'24.6"W



Tierra Nueva is a permaculture project based in Puerto Rico U.S. and has gained local support, as well as devoted supporters and donors from the mainland. The property is 21 acres in a mountain valley that contains a flowing river and is mostly wild tropics. Our goal is to develop three divisions based on the three permaculture ethics: A Regenerative Farm & Nursery (Earth Care), Bio-constructed EcoVillage (People & Animal Care), and Cultural & Development Space (Fair Share).

This first level design and install will provide adequate facilities to allow us to stay on property full time and to host work exchangers, woofers, volunteers, and small events. Most of our initial fundings, donations, and volunteer efforts went into the many unforeseen challenges we faced such as property surveying issues, encroachment, and garbage dumping. With most of the those resolved or close to resolution we are ready to move forward in our commitment to serving the earth and our communities.

Gate & Wall: The wall is made with earth bags like the superadobe domes, but we will utilize recyclable materials like wine bottles. Along the outside a parking area will have planters to mark out spaces.

Superadobe Dome: This dome is built using superadobe techniques which makes them very inexpensive to produce. Will feature a retention wall garden. They are hurricane, tornado, earthquake, water, and fire resistant and are already being installed in Puerto Rico. This will provide protection in case of severe weather.

Bathhouse: This structure will be a combination of Superadobe and bamboo. We plan to have two showers with running hot and cold water powered by solar heat, solar electricity, and rocket stove options. It will include two compost toilets and a hand washing sink.

Community Pavilion: This enclosed and screened-in area will be a combination of superadobe, bamboo, and ferrocete techniques to provide a large protected area. It can be used as a classroom, kitchen, dance hall, or whatever space the community needs it to be. It will feature water catchment cistern and a three compartment sink.

Regenerative Farm: Large crop growth utilizing regenerative farming techniques. Our crops will include a variety of greens and native crops like malanga, taro, sweet potato, yuca, calabasa, and pigeon peas.

Circular Gardens: These gardens will feature techniques like a three sisters guild, a mandala garden, and an herbal spiral garden.

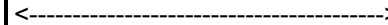
Nursery, Compost, & Microorganism Production Areas: These areas will be constructed from locally harvested bamboo.

- The *Nursery* will allow us to grow and start plants for use on property, sharing, or selling at local markets to help further fund the project.
- The *Compost* area will allow us to process large amounts of local food waste to further our farm and plant production.
- The *Microorganism* area will allow us to produce our own natural fertilizers, inoculations, and composting/pest sprays.

Chicken Coop: The Chicken coop will be built with repurposed supplies and donated tools and time. The chickens will provide eggs for food, manure for composting, pest control, and numerous other functions.

Estimated Budget			
Wall (50ft)	128 yrds of sack	\$126.72	
	Cement, Sand, Lime	\$240.00	Total
	barbedwire	\$20.00	\$386.72
Dome 14-16ft diameter	See itemized section on the right section		Total
			\$3,337
Pavillion (20ft x 30ft)	256 yrds. of sack	\$253.44	
	Cement/Sand/Lime	\$260.00	
	barbedwire/other har	\$50.00	
	Cistern	\$320.00	Total
	Hardware	\$100.00	\$983.44
Bathhouse	42 yrds of sack	\$41.58	Total
	cement/Sand/Lime	\$110.00	\$151.58
Estimated Total			\$4,859.22

Dome Itemized Section	
Shovels	\$20
Tampers	\$35
Heavy Equipment	\$480
Trench Equipment	\$360
Gravel	\$200
Filling Material	\$350
Stabalizer/cement	\$90
Sack Rolls 500 yds	\$495
Barbed Wire	\$72.48
Doors & Accs.	\$250
Windows & Accs.	\$250
Ply wood	\$200
2"x4"x10'	\$60
Hardware	\$25
Cement/Sand/Lime	\$450.00



Already Sponsored and donated features:

Gate, tools, nursery supplies, Production area supplies, KNF/composting system/supplies, plants, showers, and sinks.

Proposed timeline	May - July	August - November	December - May
	Gate installation, Bathhouse, Nursery, & Wall Construction	Pavilion, Compost area, Microorganism Production Area	Dome, chicken coops, gardens