

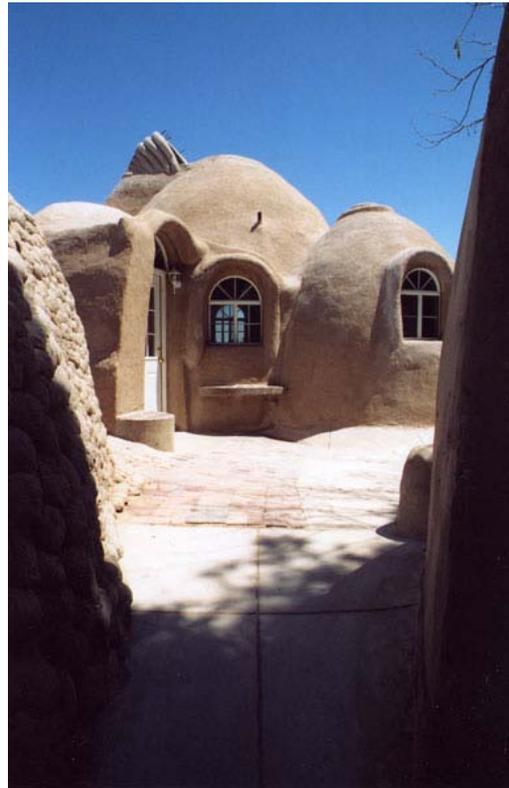
Eco-Dome Plan

Cal-Earth Nader Khalili, architect.

Eco-Dome: "Moon Cocoon"

The Eco-Dome is a small home of approximately 400 square feet (40 sq. meters) interior space. It consists of a large central dome, surrounded by four smaller niches and a wind-scoop, in a clover leaf pattern.

Learning and building an Eco-Dome is the next stage after building a small emergency shelter and provides hands-on learning experience in the essential aspects of Super adobe construction. It's small size of approximately 400 square feet (interior space), makes it a manageable structure for the first time owner builder. The finished "very small house" is self-contained and can become a small guest house, studio apartment, or be the first step in a clustered design for community use in an Eco-Village of vaults and domes.



"Unity within multiplicity is achieved by structural form and the integration of compression (sandbags) and tension (barbed wire)"

-NK-

"In the hands of the wise, earth turns to gold".

(Rumi ~ Sufi Poet)



TIYOSPAYE WINYAN MAKA

(E)xtended Family of Women of the
E(art)h

"Promoting Housing, Energy &
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Housing Problems at Pine Ridge Reservation

For over 15 years, it has been the vision of Tiyospaye/Winyan Maka to create housing on the Pine Ridge Reservation. Starting with the late, beloved [Muriel Ashmore, founder of Tiyospaye Crisis Center](#) and more recently, Christinia Eala, founder of Winyan Maka, two small agencies have merged to "Promote housing, energy, and nutritional sovereignty for Indigenous families."

Overview of housing situation:

A.) Homes on the Pine Ridge Reservation are overcrowded and scarce, resulting in many homeless families who often use tents or cars for shelter.

B.) Many families live in old cabins or dilapidated mobile homes and trailers. Many homes often have an average of 17 people living in each of them, which may have only 2-3 rooms.

C.) Overall, 59% of the Reservation homes are substandard! It is reported that at least 60% of the homes on the Pine Ridge Reservation need to be burned to the ground and replaced with new housing due to infestation of the potentially-fatal *Black mold, Stachybotrys*. There is no insurance or government program to assist families in replacing their homes.

D.) Many Reservation homes lack adequate insulation, even more homes lack central heating; periodically residents are found dead from hypothermia...mainly elders.

E.) Over 33% of the Reservation homes lack basic water and sewage systems as well as electricity.

Hope:

Currently, there are various efforts underway to implement innovative techniques and solutions to Reservation problems. After receiving an e-mail from a young man in Iowa, Tiyospaye Winyan Maka was introduced to Cal Earth (www.calearth.org) and traveled with seven Lakotas to Hesperia California to attend a hands on workshop centered around the building of "dome homes". We are so excited about this ancient technology made new that we are now busy raising funding to build prototype "eco-dome homes" on Pine Ridge in the spring of '09.

Some features of the Eco-Dome include:

A.) Built from local earth-filled Super-adobe coils (earth stabilized with cement or lime). Tree free.

B.) Maximum use of space through alternative options. The main dome and four niches, can function as: a.) main living room, entrance hall, kitchen, bathroom, bedroom (called "bed-womb" because of its small, organic form. b.) living room, entrance hall, and three bed-rooms. c.) living room, entrance hall, two bedrooms, and a bathroom. d.) Self-contained single unit (potential for a guest house or studio apartment. Interior furniture can be built-in with same material.

C.) Can be repeated and joined together to form larger homes and courtyard houses; can be built by a team of 3-5 persons.; designed with the sun, shade and wind for passive cooling and heating.; wind-scoop can be combined with a rated furnace unit, depending on local code approval. Solar energy and radiant heating may be incorporated.

Would you like to be a part of the solution?

We need your help. A "Dome-home" costs between \$10,000-15,000 to build, providing how much of the building materials we can get donated. Make a commitment to give the original people of this Nation a hand up.

- \$25
- \$50
- \$100
- \$500
- Would also like to go to the Reservation to help with the "hands-on" building process
- Donation of building materials: Sandbags and/or 4 pt. barbed wire, Windows, doors, electrical equipment, plumbing equipment

Mail your donations directly to:
Tiyospaye Winyan Maka
c/o Christinia Eala
1304 Ponderosa Drive
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Please visit our website at:
<http://winyanmaka07.web.com>
Pilamaye Thank you! and May you Walk in Balance ALWAYS.