

# Pacific Domes Has Developed an Innovative Line of Self-Sufficient BioEnergy Domes

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by [Lori Zimmer](#)

Pacific Domes has already installed a BioEnergy Dome that helps feed and supply energy to the residents of the Navajo Indian Reservation in Naatani, Arizona. The interior hosts a fresh pond, which provides water to a multitude of plant trays stacked throughout the dome. Each day, the dome [farm](#) produces around 11 lbs of fresh, organic, chemical-free produce.

The pond is thick with [duckweed and algae](#), which feeds the fish within. Since algae have incredible filtering properties, the entire system is self-cleaning, and therefore chemical-free. The fish produced are clean, organic, and plentiful – the dome produces around 100-150 pounds of fish each year. The algae in the pond can alternatively be used to [treat greywater](#) instead of for farming, removing contaminants from laundry, dishwashing and other household processes.

Aside from producing vegetables, the domes produce plants that are converted into [energy](#) using a methane digester. The methane is then converted into kilowatt energy, which can be used to power a generator. Duckweed and algae also harness solar energy, converting it to [biofuel](#). The dome can create enough bio-fuel to power one home each day.

Because the domes are so aerodynamic, wind harvesting is easy as well – the domes are a true powerhouse of sustainable design. The domes can also be used for events, overnight retreats, or meetings – and can be constructed virtually anywhere.

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