

E TECH 1

Ecotech Container Habitat 1

Project Description:

This retrofit of a 1950's tract house in Laurel Canyon implements an additive kit-of-parts and high-tech concept developed by Ecotech. The whole systems approach exploits the use of locally available and economical building elements that literally plug into the existing structure to create a sustainable and affordable environment and provide a strong architectural presence.

Some of the ecotech ecological/technological elements featured in this residence include:

1. **container add-on:** A 2 story addition consisting of seven 20' ISO containers stacked on a steel framework.
 - a. Unistrut exoskeletal framework support a 1500 W PV system, shade panels and planter panels.
2. **solarpowerporch:** *solar living space* with a bolt-on, steel superstructure that incorporates solar electric panels, solar shading, evaporative misting and low-voltage night lighting.
3. **ventbar:** *ventilation zone* featuring: Velux VS ventilated skylights, SolarStar photovoltaic powered vents, gravity and whirlybird vents.
4. **lightbar:** *daylight zone* featuring: multiple Velux, low E, double glazed skylights and Solatube.
5. **sunbar:** *solar zone*, a 3KW array comprised of: 20-150 watt SP 150 Shell Solar panels, SWR 2500U Sunny Boy Invertor, Sunny Boy Control for computer tracking and analysis.
6. **greenbar:** *garden zone*, a deck mounted, modular kitchen garden.
7. **weatherreport:** *climate monitoring zone*, a Davis Vantage Pro Plus weather station with wind, UV, Solar radiation, etc. climate data readouts for computer storage and upload to the NWS.

The interior utilizes the simple construction of the one story bungalow by unifying space with geometry and light.