Projects

Commercial & Retail

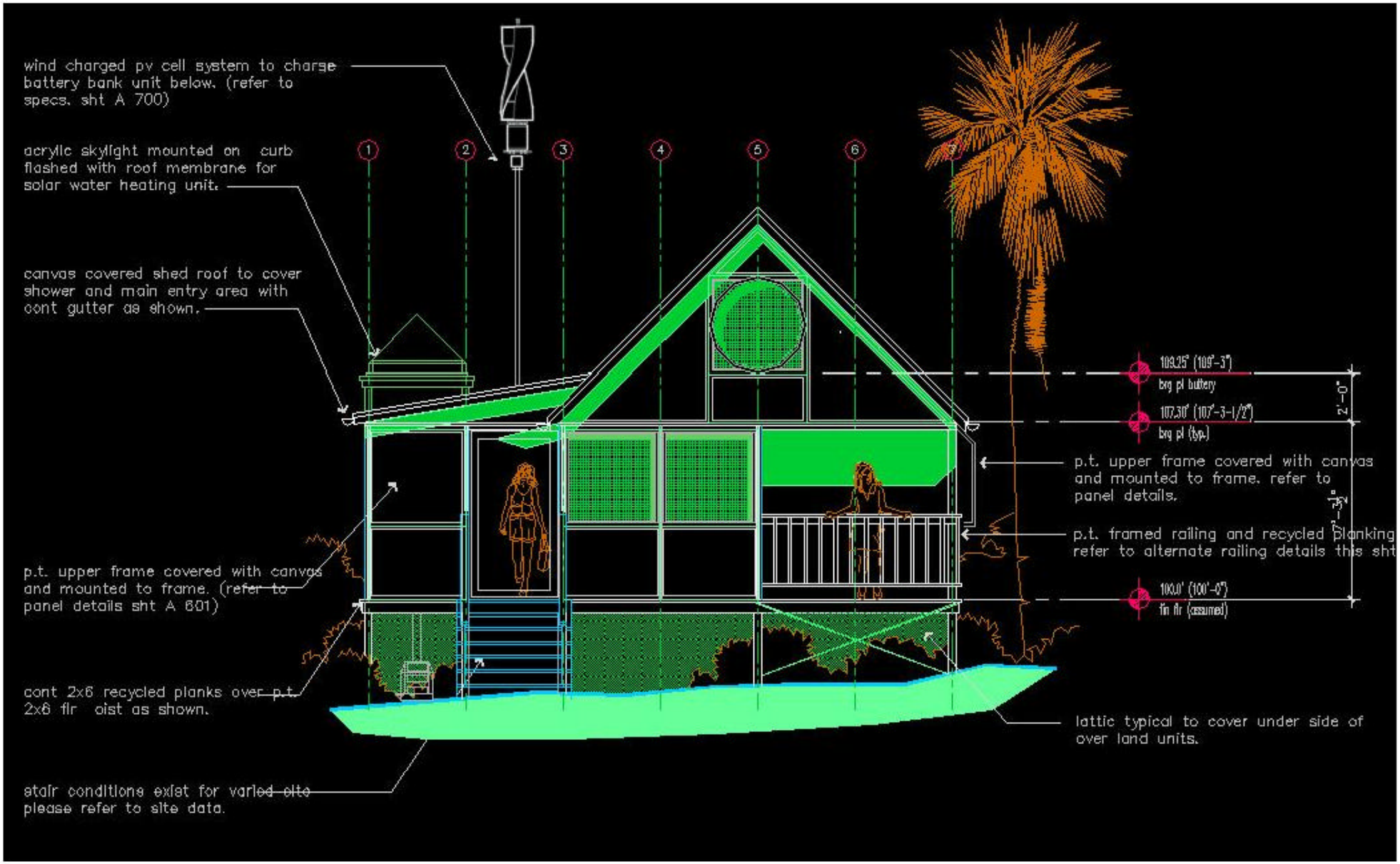
Hotel Resort & Restaurant

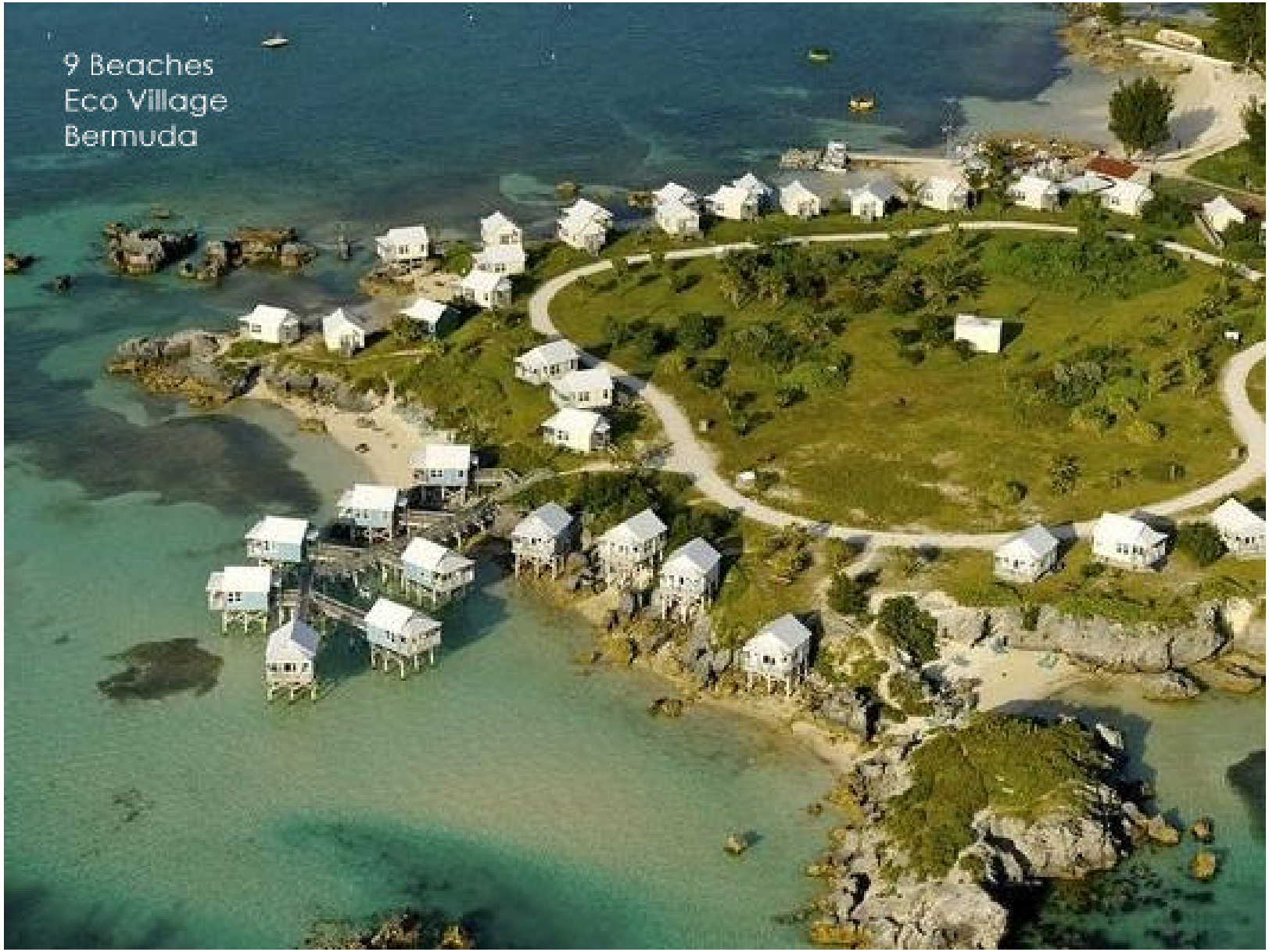
- Lantana - preliminary RFP
- Southlands - preliminary RFP
- **Eco Villages**

Religious

Medical

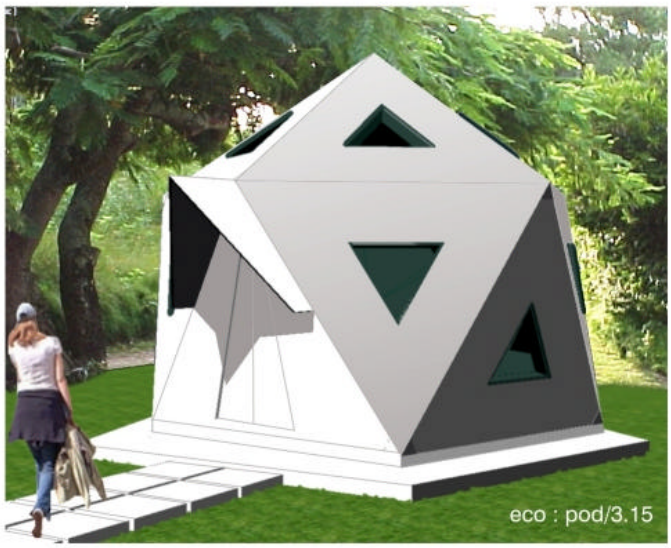
Residential


wind charged pv cell system to charge battery bank unit below. (refer to specs. sht A 700)
acrylic skylight mounted on curb flashed with roof membrane for solar water heating unit.
canvas covered shed roof to cover shower and main entry area with cont gutter as shown.
p.t. upper frame covered with canvas and mounted to frame. (refer to panel details sht A 601)
cont 2x6 recycled planks over p.t. 2x6 flr joist as shown.
stair conditions exist for varied site please refer to site data.
1
2
3
4
5
6
7
109.25' (109'-3")
brg pl battery
107.30' (107'-3-1/2")
brg pl (typ.)
2'-0"
p.t. upper frame covered with canvas and mounted to frame. refer to panel details.
p.t. framed railing and recycled planking refer to alternate railing details this sht
100.0' (100'-0")
fin flr (assumed)
lattic typical to cover under side of over land units.


9 Beaches
Eco Village
Bermuda


Maho Bay
Eco Village
USVI

E C O . P O D 3.15



Project Program

The Eco.Pod 3.15 is a 160 s.f. living unit for an alternate life style. Connected only to the earth, it is off grid, requires no connection to local utilities of any kind. Rainwater is harvested, power is generated and stored, and waste is processed in a bio mass converter. Units may be joined to increase floor area.

Construction

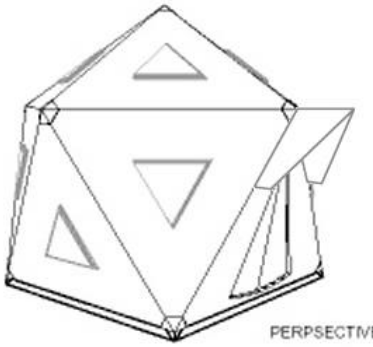
The unit is panelized into 45 pieces 2' x 9' and, along with connectors and glazing will flat pack into a 400 c.f. area the size of a small compact car. Panels are triangular and uniform in size and shape. All panels, with the exception of the door unit are identical. Materials are recycled steel and EPS and can be assembled by 2 persons with no skills in about 6 hours, start to finish.

The completed pod envelope has an R value of over 30, and engineer to withstand 140 mph wind loading. It is capable of sustaining significant point load impacts in a choice of finishes, from highly polished metal to matte camouflage.

Form and Assembly

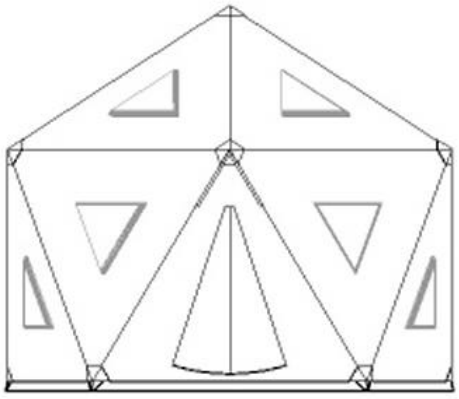
The Eco.Pod 315 is compose of 15 equilateral triangles to form a single enclosure around five sides. It is an Icosahedron, which in it's complete state has twenty sides. Five have been removed to create the floor area, which is about 160 sq. ft. Five base plates with integral ventilation are bolted using five sided hubs, to the floor. Any wooden, or cement surface is adequate.

The 15 triangles are then connected using the same hub. A total of 11 hubs are required. Each hub is versatile, with the potential to enclose electrical receptacles, and various other attachments both inside and out. With panels prepared, the assembly is repetitious, and economy of movement can be utilized to speed assembly time to less than an hour with 4 people for immediate shelter.



PERPSECTIVE

Each panel is weather proofed with integrated flashing, and each holds a triangular skylight, inserted after the panels are erected. Opaque fillers are optional. Other options include added panels to form a platform if a slab in not provided, and parts to join pods together in a variety of configurations.

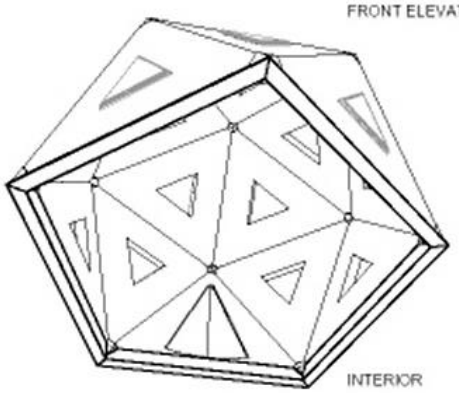


FRONT ELEVATION

Applications

The pod is self sustained, and can be equipped to provide back up power sufficient to provide all electrical requirements and also power an electric vehicle. Because of the insulation properties, quick erection time, and wind loading capabilities, there are numerous venues perfectly suited for it. To name a few:

retreat lodgings
hunting cabins
storage or utility
work shops
research buildings
ice houses
emergency shelters



INTERIOR

Cost

Each triangle consists of 3 panels for economy of shipping and handling. Assembled, the cost of each triangle is approx. $300. x 15 = $4500. This cost, and the insulation efficiency allows for a budget that includes PV modules or wind turbines as integral to the project, rather than an added expense. Enough power can be generated to supply an overage of energy, powering vehicles or running other equipment.

ROOF PLAN