**Greenhouse**

UN Sustainable development goals:

* Greenhouse structure can be used to grow vegetation during winter months.
* 1600 SqFT cost less than $90,000 to build, and 1/3 of cost to build in the developing world. Installation is 56 Ft long x 27 Wide.
* Use natural heating cooling systems vs traditional air conditioning systems.
* Designed to not damage the eco system by using above ground foundation/piers. This gives more uncovered ground for water to seep thru.
* Flexible space and uses.
* Water and waste management system is built on each unit and do not require major ground connections.
* Less material and mass are required to build these units then a standard ground up building. This means less heat is dissipated from the units.
* Easy to start a new community since these structures can be installed in few days.
* Since the units is an open-air system, fresh air is at abundance. This means good health.
* Make living with nature natural.

INSTALLATION DETAILS:

Winter Heating

* Tensile structure translucent fabric allows solar heat to enter the open space in the winter.
* The solar heated air is circulated thru the crawl space so that the heated air can be used in the darker hours.
* Naturally stored ground heat is also used to heat the unit thru out the day and night.

Summer Cooling.

* Skylight vents exhaust hot air out.
* Warm air is cooled/conditioned by circulation air thru crawl space on naturally cooled ground.

Sustainable construction.

* More than ½ of the project is built offsite. Building is shipped by attaching the trailer frames to trucks.
* No foundation is required, and the building metal pier footing are installed above ground. This does not disturb the ecological environment below the building.
* The tensile roof can easily be assembled by 2 laborers without out using heavy equipment.
* Using light tensile structures fabric minimal heat is retained or lost thru out the year.

Self-sustainable:

* Scalable battery storage area.
* Partial solar tensile fabric can be used instead of translucent fabric to generate electricity.

Minimal Power required.

* Most lighting and power switches run on low voltage data line.

Standard power

* Plumbing pumps
* Mechanical fans
* Cooking equipment
* Refrigeration