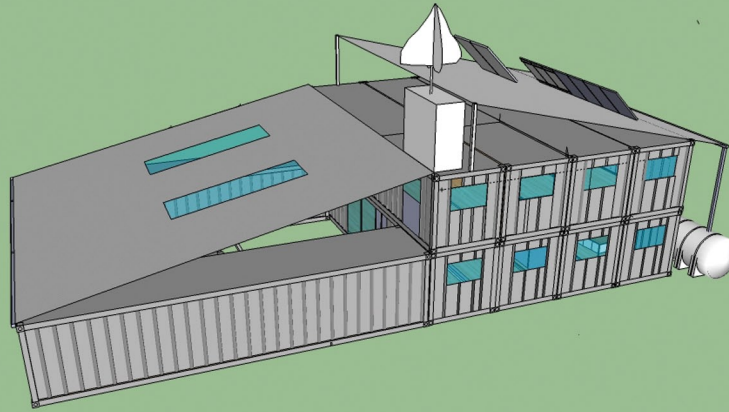




# NUENERGY

## EMPOWERMENT CENTER

SHELTER.HEALTH.EDUCATE.RENEW.



## OVERVIEW

Our Cargo-Structure Eco Living System is sustainable in every aspect and has many advantages built in. Using decommissioned ISO shipping containers has many advantages for any community structure including housing for various reasons:

- 100% Recycled
- An ISO container is the strongest modular box in the world
- Container provides primary walls, floors and roof
- All containers come in standard international set sizes 20' & 40'
- Not expensive
- No limit to design
- Easy to transport

### Other Advantages:

- Earthquake resistant
- Fire Resistant
- Flood Resistant
- Insect/Termite proof
- Mold resistant
- Easy to design
- Quickly Built
- Easily built

### Example:

- Three 12 meter or 40' ISO shipping containers:
- 90 square meters of living space
  - 2/3 bedrooms
  - Sizeable kitchen
  - Open concept living room
  - 1 bathroom

## AMENITIES

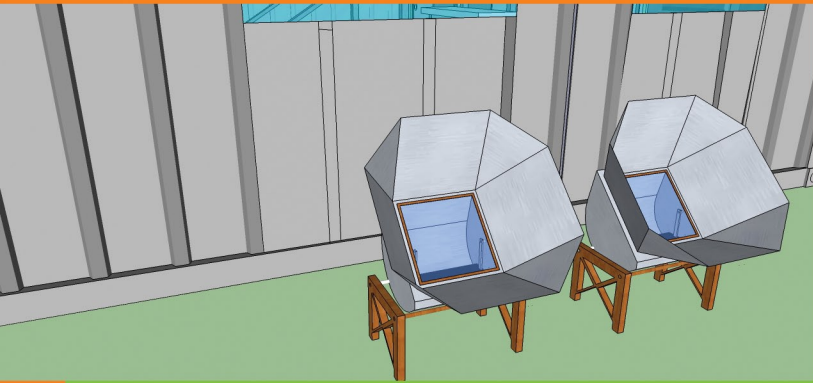
- 480sqft First Aid Medical Center
- 320sqft 4 Bathroom Unit
- 2920sqft of combined slanted roof space for rain water harvest
- Two 1800 gallon water cisterns 1 in front one in back under canopy
- 50 batteries – 12V 150 amp
- 10 Kw AC inverter
- Power Supply is from the following hybrid system:
  - 5kW magnetically levitated vertical wind turbine
  - 6 130 Watt Solar panels facing south
  - 2 Hot water solar collectors facing south



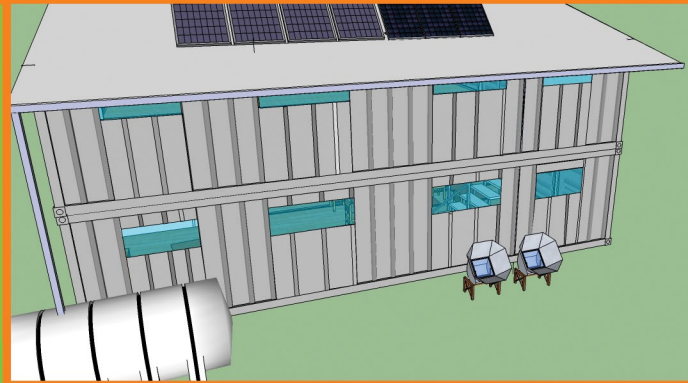
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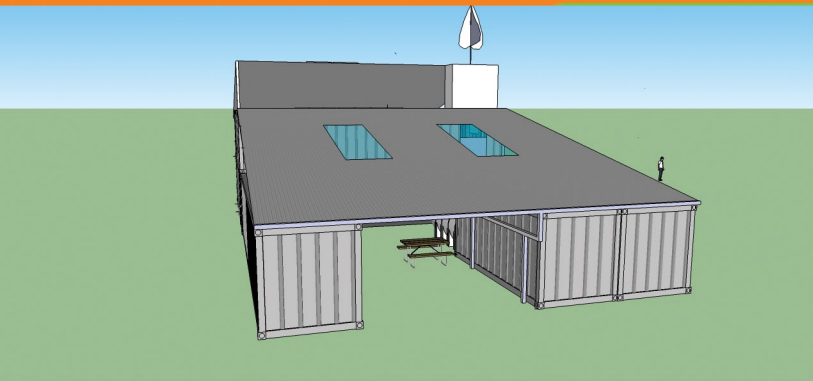


TWO SOLAR COOKERS FACING SOUTH

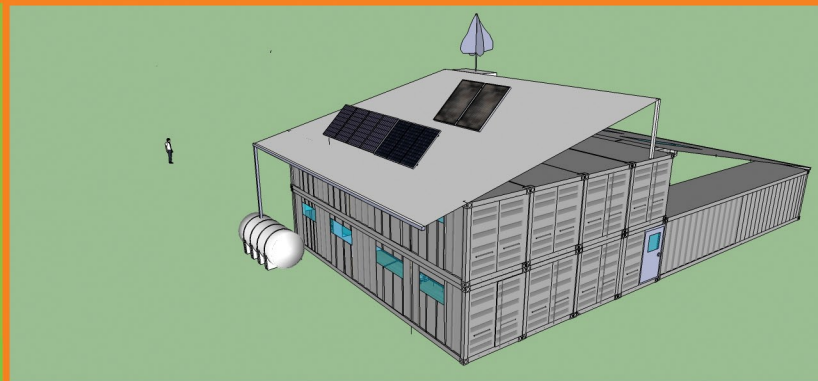


SOUTH VIEW

### 5KW MAGNETICALLY LEVITATED WIND TURBINE



NORTH SIDE BACK VIEW



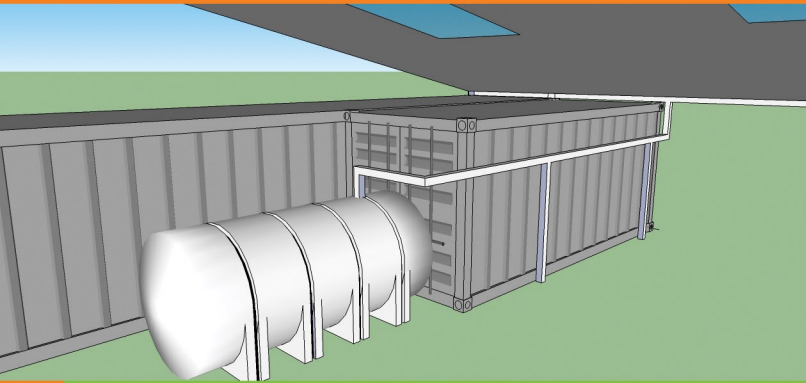
SOUTH EAST VIEW

- This empowerment center is 3360 sq. ft. and includes two 1280 sq. ft. classrooms
- Skills to be taught: Hygiene Health, HIV Prevention, Reading Writing, Arithmetic,
- Skills Building: Agricultural Planting and propagation, Energy Farming Initiatives, Soap making, Salon & Beauty, Construction Trades, Building and Selling Solar Cookers

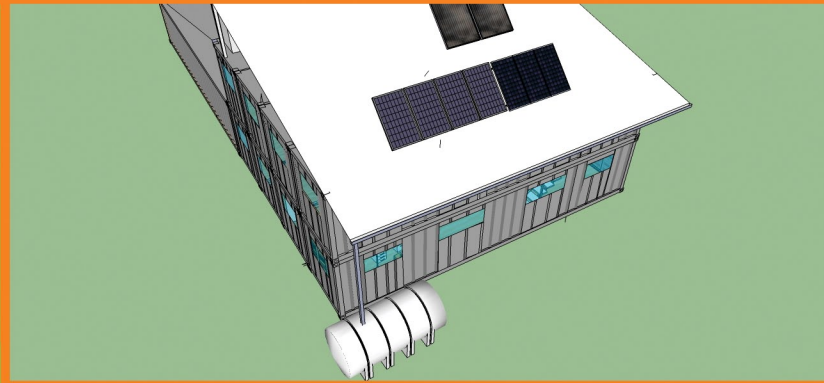


# NUENERGY

EMPOWERMENT CENTER  
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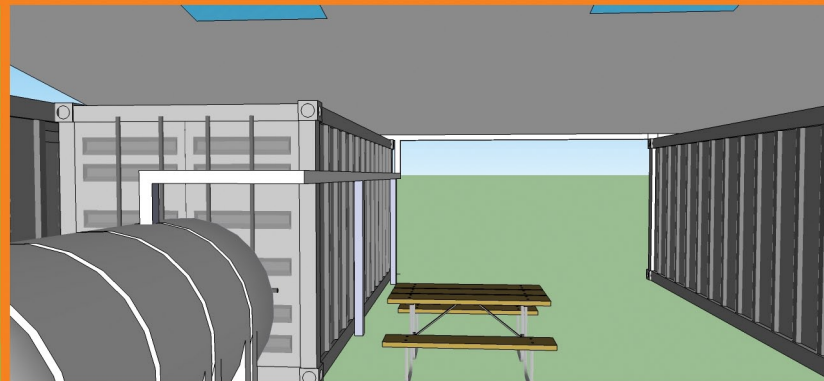
UNDER CANOPY SHOWING 1800 GALLON CISTERN RAIN WATER STORAGE



TOP VIEW



INSIDE EMPOWERMENT CENTER CLASSROOM SETTING



UNDER CANOPY COMMON SPACE



# NUENERGY

## EMPOWERMENT CENTER

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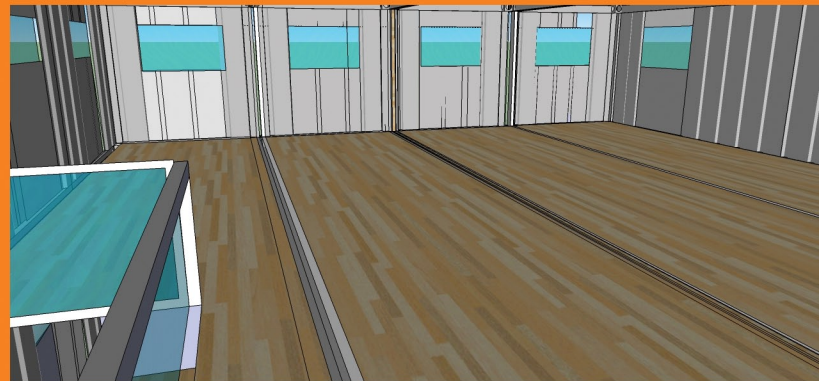
INSIDE EMPOWERMENT CENTER  
LOOKING TOWARDS OFFICE



INSIDE EMPOWERMENT CENTER  
STAIRCASE TO 2 LEVEL



LEVEL 2 - 1280SQ/FT CAN BE USED FOR  
EDUCATIONAL & COMMUNITY FUNCTIONS



SECOND VIEW OF LEVEL 2  
LOOKING WEST



# NUENERGY

## EMPOWERMENT CENTER

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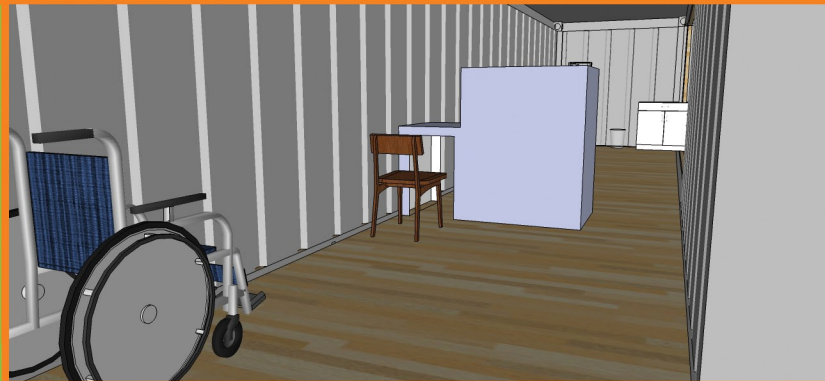
OFFICE ON FIRST LEVEL  
LOOKING NORTH



OFFICE LOOKING EAST



FIRST AID MEDICAL OFFICE  
LOOKING TOWARDS THE NORTH



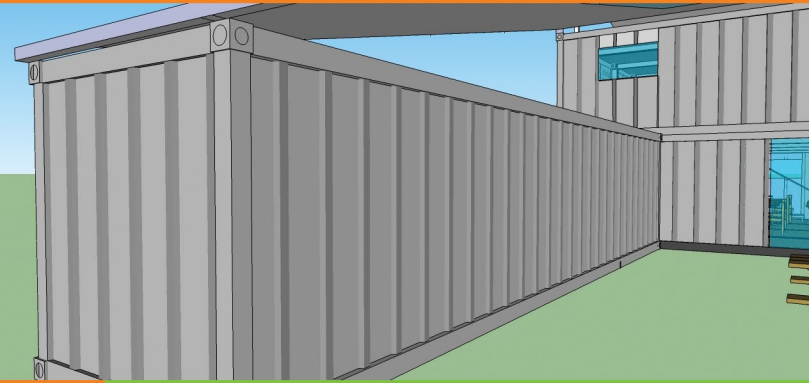
FIRST AID MEDICAL ROOM



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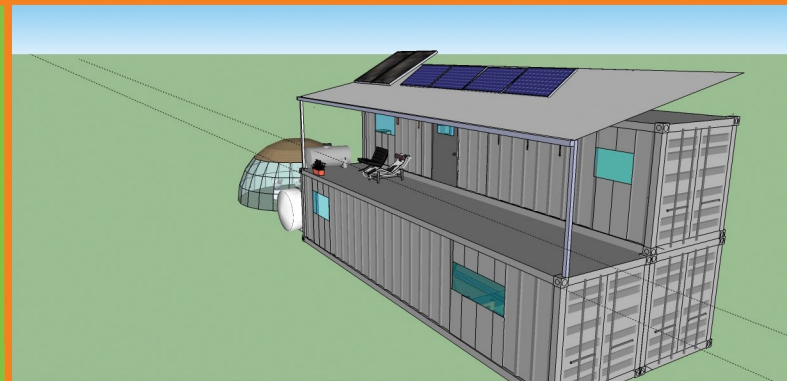
WASHROOM BLOCK: 2 MEN, 2 WOMEN



SOUTH FACING STRUCTURE



ROOF WITH PV AND HOT WATER  
SOLAR COLLECTORS



ADDITIONAL VIEW

Water is collected from Roof Tops and is treated with various filters and UV lights (low powered) which renders it potable. The Water is stored in Cisterns. A smaller cistern sits on the balcony and provides potable water which utilizes gravity and thus water pressure for home use.



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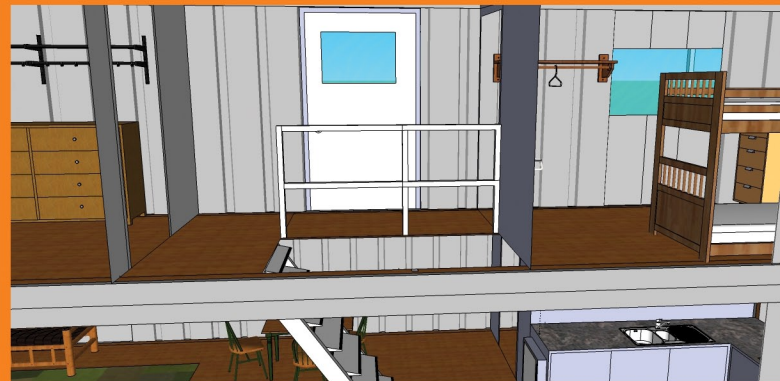
MASTER BEDROOM  
BALCONY ENTRANCE/EXIT



SECOND BEDROOM



OPEN KITCHEN



OUTSIDE BALCONY

**Open Kitchen** – Small fridge built into counter. Small energy requirement is excellent for daily food use. Sustainable Alcohol stove – Using locally made ethanol from sugar cane provides all energy requirements for cooking. All water from kitchen, shower and sinks (grey water is treated in simple gravel, sand and charcoal filter) is then used in the family garden plot for irrigation.

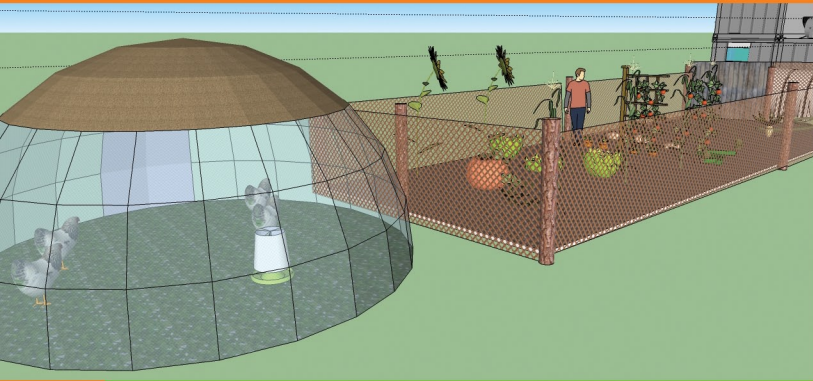
Other cooking procedures include solar ovens which can obtain temps of 350F and can bake potatoes, pies and bread as well as many other dishes. Solar ovens built on site would also employ people and provide commodities to be sold or traded – Easy to construct excellent sustainable business utilizing solar energy.



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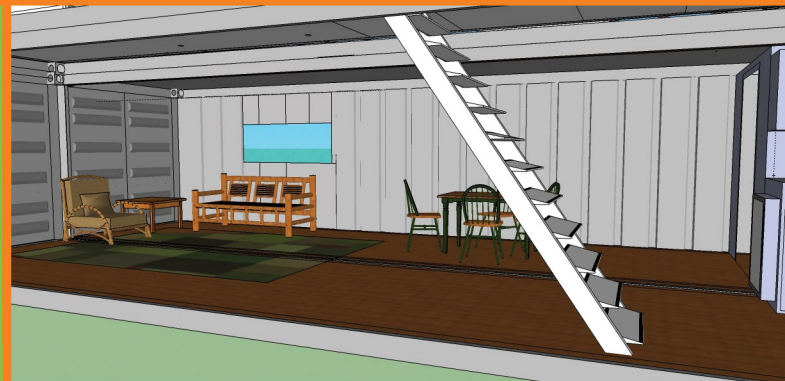
PERMACULTURE GARDEN AND CHICKENS



OUTSIDE VIEW



OPTIONAL FLOOR PLAN



DINING AND STAIRS





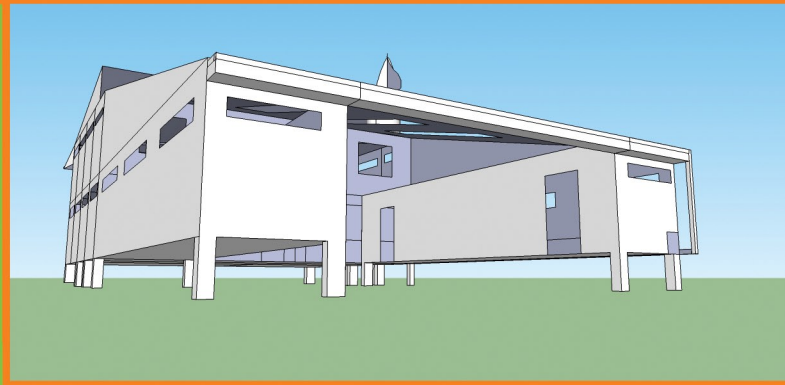
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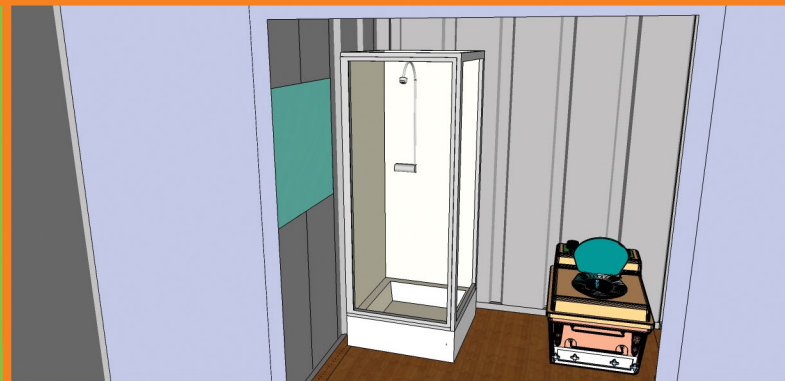
PERMACULTURE GARDEN



CARGO STRUCTURE  
ALTERNATE CONFIGURATION



LIVING ROOM



BATHROOM WITH SHOWER