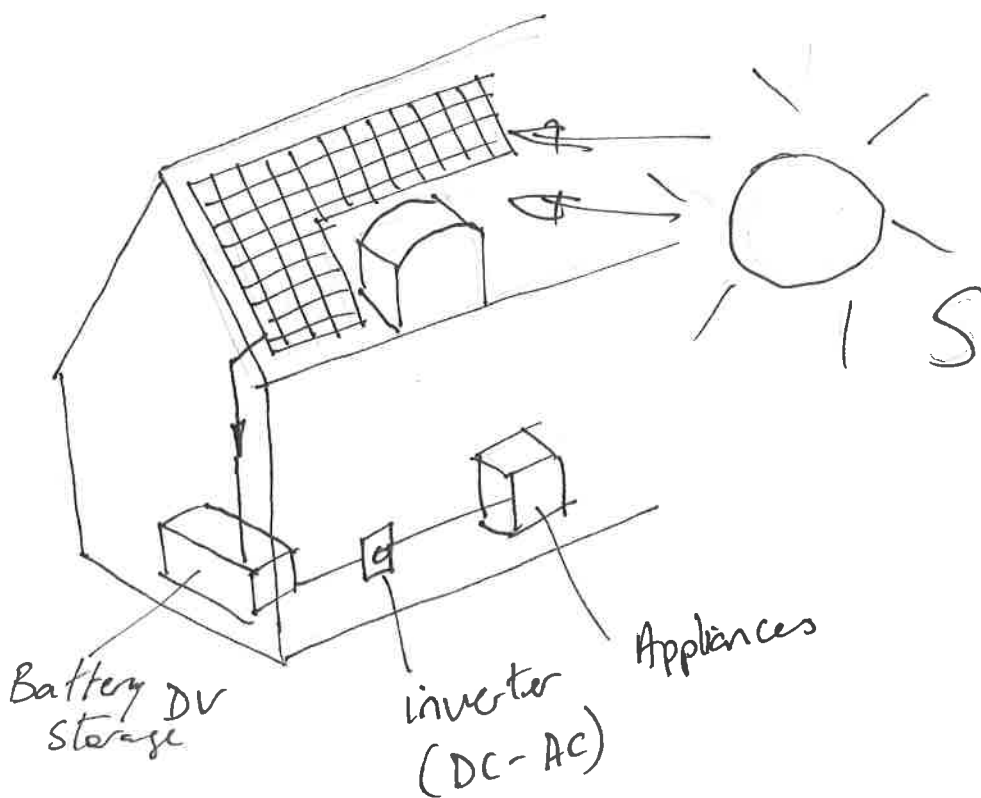


(a) 1. P.V. Solar Panels.

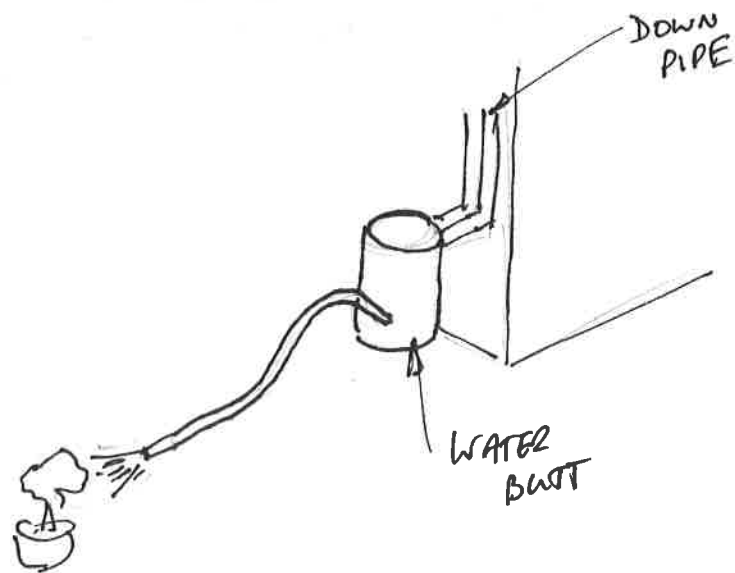
The house has photovoltaic solar panels on the roof. These are presumably south facing. This will absorb the passive solar energy and convert it to electrical energy which can be used to power appliances in the home. This "free" energy saves the homeowner money and cuts down on the use of fossil fuels (main electricity) thus having less of an impact on the environment.

~~# 3.12~~  $21 \text{ m}^2$  of PV Panels can generate  $3.12 \text{ kW/yr}$  of energy. An average house uses approx  $3-5 \text{ kW}$  of energy / year.



## 2. - Water Butts

The house has water butts at either side of the building connected to the down pipes of building. These collect rainwater which would otherwise be run into the drainage system of house. This water can be used to ~~use~~ wash cars, water plants etc. This reduces the households use of treated water from the ~~tap~~ taps. Treated water ~~has~~ uses energy in its creation. By using rainwater we ~~are~~ are having a reduced impact on the environment and reducing the house's carbon footprint.



## 3. Other Features

- one room deep
- Timber frame. - Carbon neutral, Recyclable, ~~renewable~~ Renewable, Sustainable.
- large south facing windows
- sky lights
- compact form.