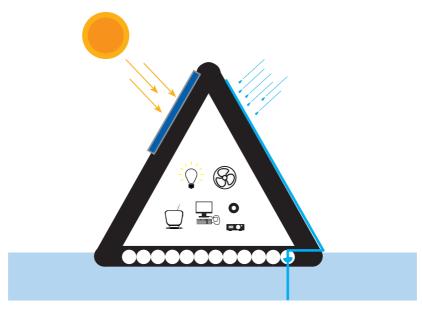
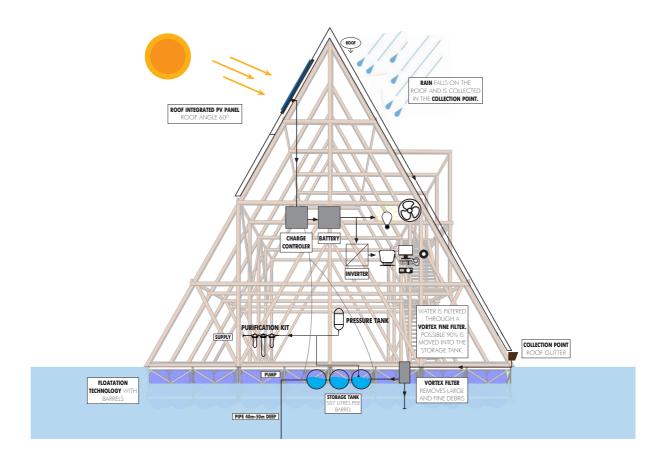
2H IDEAL STANDALONE SYSTEM



AIM:

AN EFFICIENT STANDALONE SYSTEM POWERED BY PV PANELS

STANDALONE SYSTEM



PROPOSED APPLICATIONS AND ESTIMATED LOADS

Equipment/ Load	Powered by (see below)	Qty	Load (Watts)	Total Load (Watts)	Hours used per day	Total Energy Use per day (Watt hours)
AIR CONDITIONING/VENTILATION						
Fans	DPN	10	10	100	6	600
WATER SUPPLY						
Water delivery	PV-Direct	1	70	70	4	280
Borehole pump	PV-Direct	1	500	500	4	2000
WATER TREATMENT PLANT						
All equipment	DPN	1	1500	1500	1	1500
SOIL AND WASTE WATER DISPOSAL						
Sewage treatment	DPN	1	2000	2000	1	2000
POWER TO SOCKETS						
Computer	DPN	1	100	100	8	800
Television	DPN	1	20	20	6	120
DVD player	DPN	1	10	10	2	20
Projector	DPN	1	150	150	2	300
LIGHTING						
LED fluorescent	DPN	20	10	200	8	1600
LED fluorescent	DPN	4	40	160	12	1920

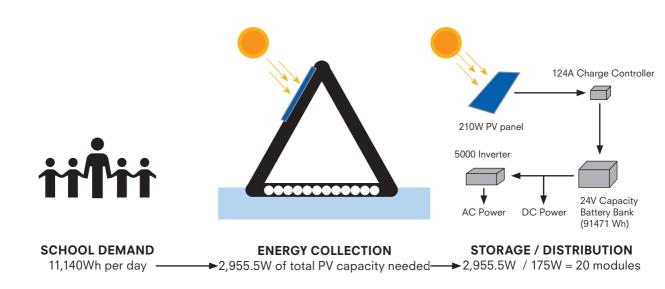
TOTAL ENERGY USED PER DAY IN WATT HOURS

DPN = DISTRIBUTED POWER NETWORK

or **11.14 kWh**

11,140 Wh

ESTIMATED MAJOR EQUIPMENT TO BE INSTALLED



Actual requirement:

20 Solar Modules of 175Wp, 17.4V, multicrystalline silicon

24 Deep cycle batteries 210AH, 12V, deep cycle VRLA

1 Inverter 5000W, 230VAC pure sine wave inverter