



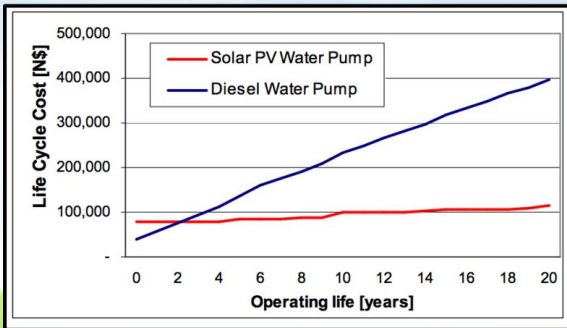
SOLARISTIC



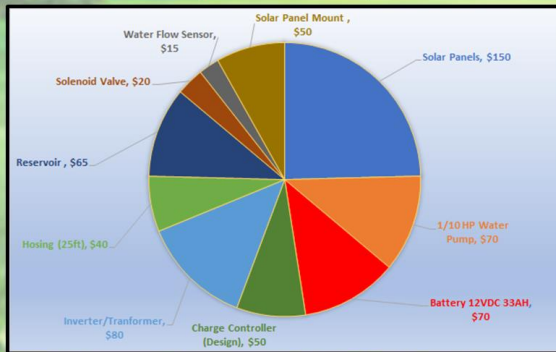
PROJECT DESCRIPTION

Farming is difficult without access to grid power to sustain water and equipment. Additionally, the high costs of using diesel engines to provide irrigation means that farmers are not able to fully utilize all the good land they have. The project aims to create an off grid solar powered irrigation system that can be used anywhere in the world. With a limited budget, the project is scaled down to provide water for tomatoes and peas in rural Morocco.

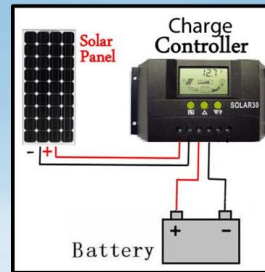
SOLAR VS DIESEL GENERATOR



BUDGET



CHARGE CONTROLLER



Current regulator which regulates V & I coming from the PV panels to keep the batteries from overcharging and deep discharging

INVERTER

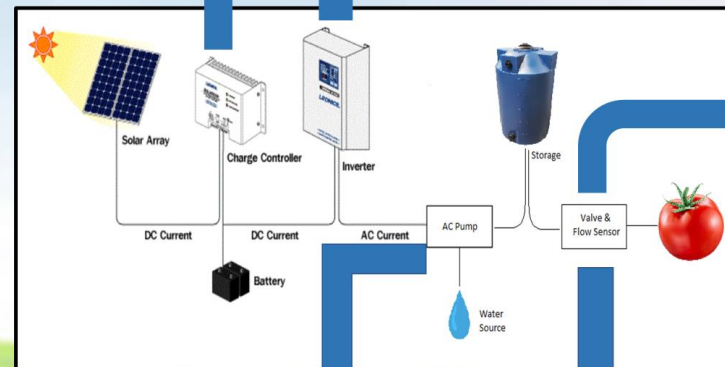


Converts DC to AC signal

RPI3



Provides signals for charge controller, inverter, and valve. Detects changes in solenoid valve and flow sensor.



AC WATER PUMP



SOLENOID VALVE



Mounted on reservoir and controls the flow rate of water being distributed from the reservoir.