IF I COULD INVENT SOMETHING

My name is Excellence Anietie. I am a student of Word of Faith Group of Schools. I am in Jss2.

In my quest of thinking and searching for something new to invent that would be beneficial and helpful to people especially the poor, I was able to observe that many people are in need of good and healthy water supply but they find it difficult to get. So due to this fact I would like to invent something called an atmospheric water harvester.

As we all know there is water in the air. The atmospheric water harvester is a device that extracts clean water from the air even in arid regions.

The atmospheric water harvester draws in air from the surrounding environment. The air passes through a series of filters removing impurities and pollutants. The filtered air is then cooled causing the water vapor to condense into droplets. The condensed water is collected in a storage tank. The water may undergo additional processes which include ultraviolet treatment or membrane filtration.

The atmospheric water harvester provides clean water in areas where traditional sources are scarce or contaminated. It harvests water from the air reducing reliance on traditional water sources and operates with minimal energy requirements. It can be designed for mobile or fixed applications.

The atmospheric water harvester provides clean water for drinking, agriculture and livestock.it offers a reliable water source in emergency situations. It supplies water for troops in arid regions. It supports irrigation and crop growth in water-scarce regions.

The amount of water in the air depends on various factors. There are more water in warm air than in cold air. Some factors behind the amount of water that can be extracted from air include; humidity, temperature and airflow.

Humidity refers to the amount of water in the air. It also refers to the condition in which the air is wet and very warm. Higher humidity areas yield more water. Temperature refers to the warmness or coldness of the air. Warmer air can hold more water vapor. Air-flow refers to the amount of water that flows into the system. More airflow through the system can generate more water.

In general atmospheric water harvester can provide a significant amount of water but it may not be enough to solely support an entire community.

For instance a small scale atmospheric water harvester system [100sqm] can produce around 100-200 liters/day [26-52gallons/day].

A large scale system [1000sqm] can produce up to 1000-2000 liters/day[264-528gallons/day].

This amount could help a lot of people that can’t find good water That is one of my goal of inventing an atmospheric water harvester. To help those poor that can’t afford or find good water.

In conclusion, AWH can help a lot of people including the poor and the rich; because if I could invent it, I would make it available to the poor and sell it at an affordable price to the rich. With this a lot of people can drink good water.