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PROBLEM

A lot of farmers in Ghana still depend on the climate to irrigate their crops. This has led to periodic food shortages and spikes in food prices in the country. This is due to the fact that depending solely on the climate for irrigation purposes could be very deceptive and unreliable and thus prevent the maximum possible yield of crops to feed the nation.

SOLUTION

Artificial irrigation systems must be implemented. These irrigation systems must make use of renewable sources of energy so as to prevent or reduce energy costs.

A dam serving as a reservoir should be constructed and filled with water and treated to control pollution. Channels are then dug out into the farmland and the water is passed through so as to supply it to the crops being grown.

The water source can be automated in order to prevent forgetfulness or unavailability on the part of the farmer or operator and powered by solar energy in order to save cost on electricity.

ADVANTAGES

1 Saves cost on electricity

2 Saves manpower

3 Provided food all year round

DISADVANTAGES

1 Requires technical know how to build

2 Availability of water sources to fill the dam.