

Using EZPack Bladders for Agriculture Solutions in Africa

Introduction

In many countries in Africa there is shortage of water supply for agriculture. Even when there is water, it is very often not accessible, especially for small size home-agriculture.

African countries suffering or facing water shortages as a result of climate change have a massive potential in rainwater harvesting.

Overall the quantity of rain falling across the continent is equivalent to the needs of 9 billion people, one and half times the current global population. About a third of Africa is deemed suitable for rainwater harvesting if a threshold of 200 millimeters of arrival rainfall, considered to be at the lower end of the scale, is used.

Although not all rainfall can or should be harvested for agricultural uses, with over a third needed to sustain the wider environment including forests, grasslands and healthy river flows, the harvesting potential is still much more than adequate to meet a significant slice of human needs, the report notes.

EZPack is offering 2 solutions for agriculture based on its proprietary EZPack bladders:

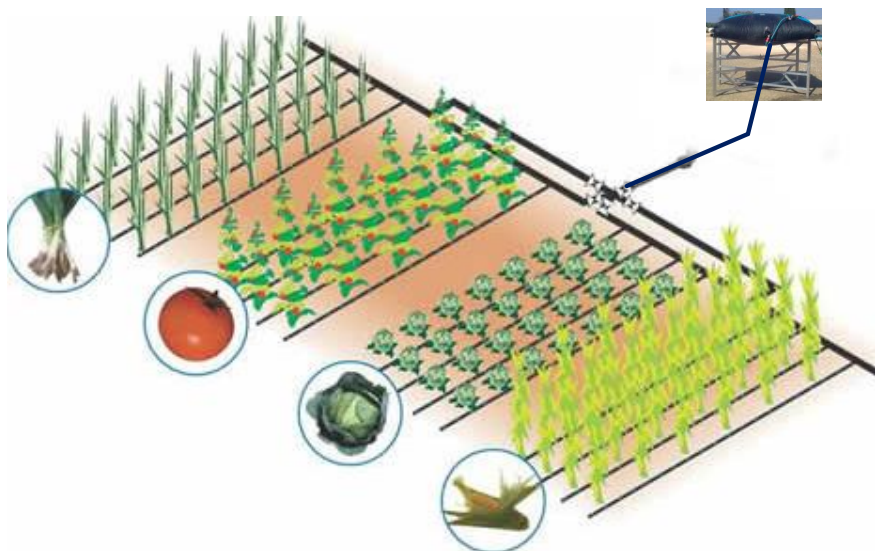
1. Home agriculture drip-irrigation water system.
2. Rain-harvesting system for agriculture.

EZPack Home Agriculture Drip-Irrigation System

EZPack is offering a home-agriculture drip-irrigation system for small agriculture plots. The system contains the following elements:

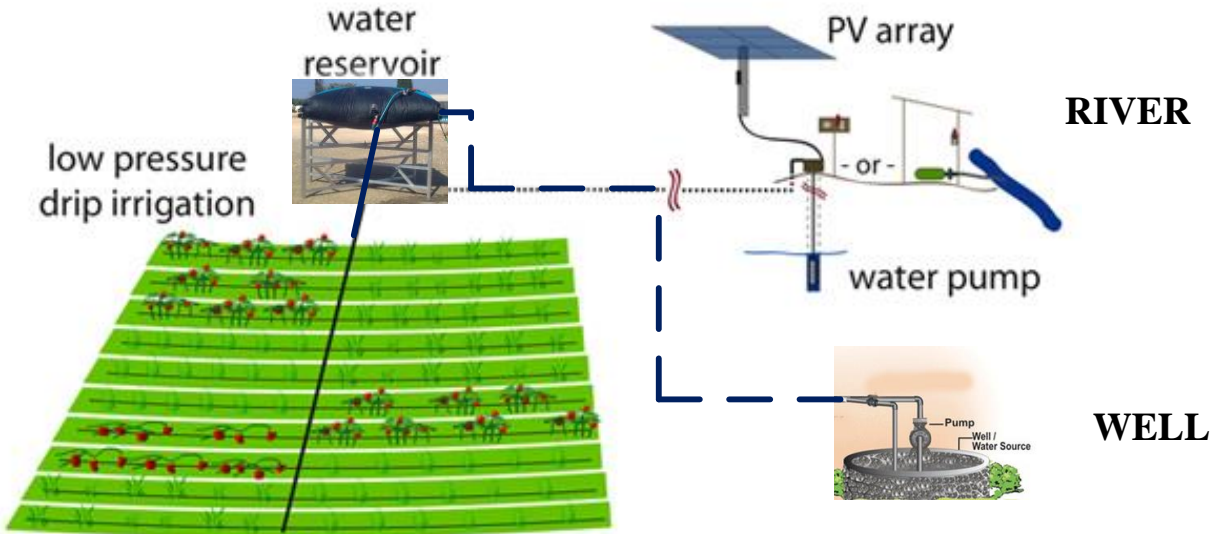
1. Water reservoir of 3,000 to 5,000 liter on stage.
2. Drip-irrigation system according to field area.

The following drawing presents the layout concept of the system:

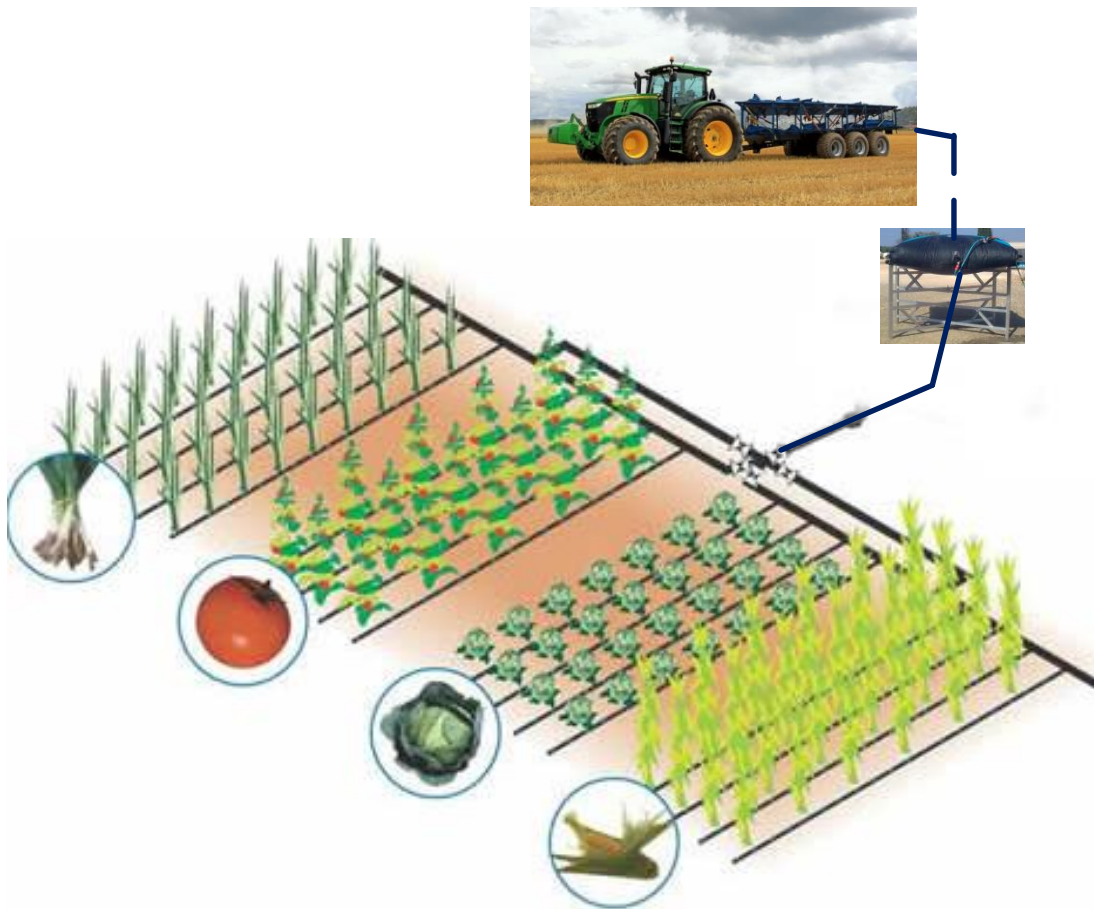


Two options to fill reservoir are offered:

1. If the water source is close – connect the reservoir by pipes and solar operating pump.



2. If the water source is farer – transport water from the water source to reservoir using EZPack water transport module for flat-bed trucks or flat-bed trailers.



EZPack Agriculture Rain-Harvesting Solution

EZPack is offering a system for rainwater harvesting based in EZPack proprietary 2 layers bladders.

EZPack proprietary bladders has 2 layers: the outer layer is made of rigid PVC material that sustain sun and harsh terrain. The inner insert is made of food-graded materials and it is where the water are stored. The EZPack bladder is the ultimate solution for healthy water; no maintenance! No cleaning!

For storing large quantities of water for agriculture applications the system will built on larger storage capacity bladders (10,000 or 20,000 liters each). By stacking several bladders, there is no limitation to the volume of water that can be stored.

Following is atypical system layout for agriculture drip irrigation rain harvesting system:

