

Need Identification and Problem Statement

Introduction

Escaping from the civil war the refugees were put in small camps. They are given limited resources; a barrel of water per day, a box of dry food, and a minimal amount of money per month. The money they receive is usually spent solely on fruits and vegetables. They are also given no electricity except for a generator that is used as their only source of light at night.

The refugees currently live in a desert. Since the soil is very dry and because of the temperature difference they are unable to grow their own agriculture. Previously, students from France have visited the camps and invented filtration systems to recycle the used waters to grow small agricultures like cilantro, but failed to grow any other due to the dry state of the soil.

Needs and Wants

The refugee's needs are to ensure survival, access to food and water is crucial for them. However, they want to be able to provide for themselves and grow their own agriculture. Lastly, they have stated the importance of electricity in their lives.

Project Statement

The refugees need a hydroponic system that allows them to cultivate agriculture under harsh weather conditions. It is crucial that the system is easily operated and maintained by the refugees, and that it is cost effective for the buyer (either for the refugees themselves, or a non-governmental organization).

Conclusion

Refugees are unable to have an adequate standard of living with the resources available to them. We wish to support them by providing a hydroponic system that will allow a growing and sustainable agriculture.