

Introduction:

The purpose of the project was to research, design, and build an appliance that can effectively sterilize water and cook food using only solar power. The main goal of this project was to heat the interior of the device to a temperature of at least 212 degrees Fahrenheit, warm enough to boil water. The final design chosen to use was a small and compact design in order to preserve the heat as much as possible. This project helps to promote new, alternate ways to cook food for developing countries and after natural disasters where sources of energy, such as electricity, are not available. Using only the energy from the sun, the oven can reach high temperatures that will kill bacteria and decrease chances of illnesses from undercooked foods and waterborne

