

Problem Statement and Goals

Solar Cooker Energy Calculation

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Table 1: Revision History

Date	Developer(s)	Change
20 January 2023	Deesha Patel	Initial release of document

1 Problem Statement

Renewable energy is essential nowadays as fossil fuel causing damage to the environment in all ways. Many countries have started to develop the renewable energy. Solar energy can be used in heating water, cooking food and transforming it into another form of energy.

1.1 Problem

The main challenge for developing is that how we can utilise more solar energy especially for cooking meal. Solar Cooker Energy Calculation is developed to calculate and analyse the total used energy and heat loss with all sides in solar cooker box that can help to utilize more heat power.

1.2 Inputs and Outputs

It will take dimensional inputs and temperature parameters and give output of total prediction of energy consumption.

1.3 Stakeholders

The companies who manufacture the solar cooker are the potential stakeholders of our system. Citizen of the countries who want to support the country in development of Renewable energy are end-user.

1.4 Environment

This software can be deploy on Mac OS, Windows 10 and greater and Linux operating system.

2 Goals

1. It will provide simplified energy calculation for Solar Cooker.
2. It will give solution to utilize more heat energy for cooking food.

3 Stretch Goals

1. We will Visualize the final Structure and make it real.
2. We will Test product in different environment and regions.