

Format for the Project Submission

Project Id/No	AEL-03
Project Name	Solar Trash Can: Hygienic and Inexpensive Solution to Open Bigger Trash Cans
Project Members	Mentors – Dr. Swati Arora Mentee – Karan Dhingra Amogh Babbar Utkarsh Mishra
Abstract	This paper presents a novel way to use the trash can, which is cheap, hygienic, self- sustained and sturdy. Filthy trash cans not only emit bad odour and draw mosquitoes and other insects to them which can be a public health hazard, they also spoil aesthetics of a city’s landscape. There are two types of the trash cans, with and without a lid. In this study, a solution has been proposed which contains merit of both the type of cans while skipping any demerits. The lid of the trash can open up intuitively when a user comes closer to it and closes when the user walks away. It uses solar power and is also equipped with a solar tracker, which automatically aligns the solar cells in the direction of the sun to maximize the energy input.

Project Photo



In-house Prototype



Design for Prototype

Project Report

http://journals.du.ac.in/ugresearch/pdf-vol-3_1/J10.pdf