INTRODUCTION

The purpose of making this project is to generate electrical energy from bad materials like plastic, rubber, garbage and bad stuff etc. and store that electrical energy in the battery through the circuit and use that electrical energy to operate the whole project. And the LED bulb is shown to be turned on and the use of filters to control pollution from energy production .

In this project when burning start then heating generate and heating penal start converting heat to electricity and that electricity we can see on multi meter display , we can see how much voltage generate by waste materials and we electricity generating perfectly then automatic heating sensor on the output power supply then Big LED Bub start glowing and our idea everyone can see in live working , Our Idea 100% work for generate electricity by waste materials and when we burn anything then pollution start generating so we use pollution control filter for controlling carbon pollution so when carbon cross to filter then we store the carbon and carbon use any area in real life . So this is our best live working idea.

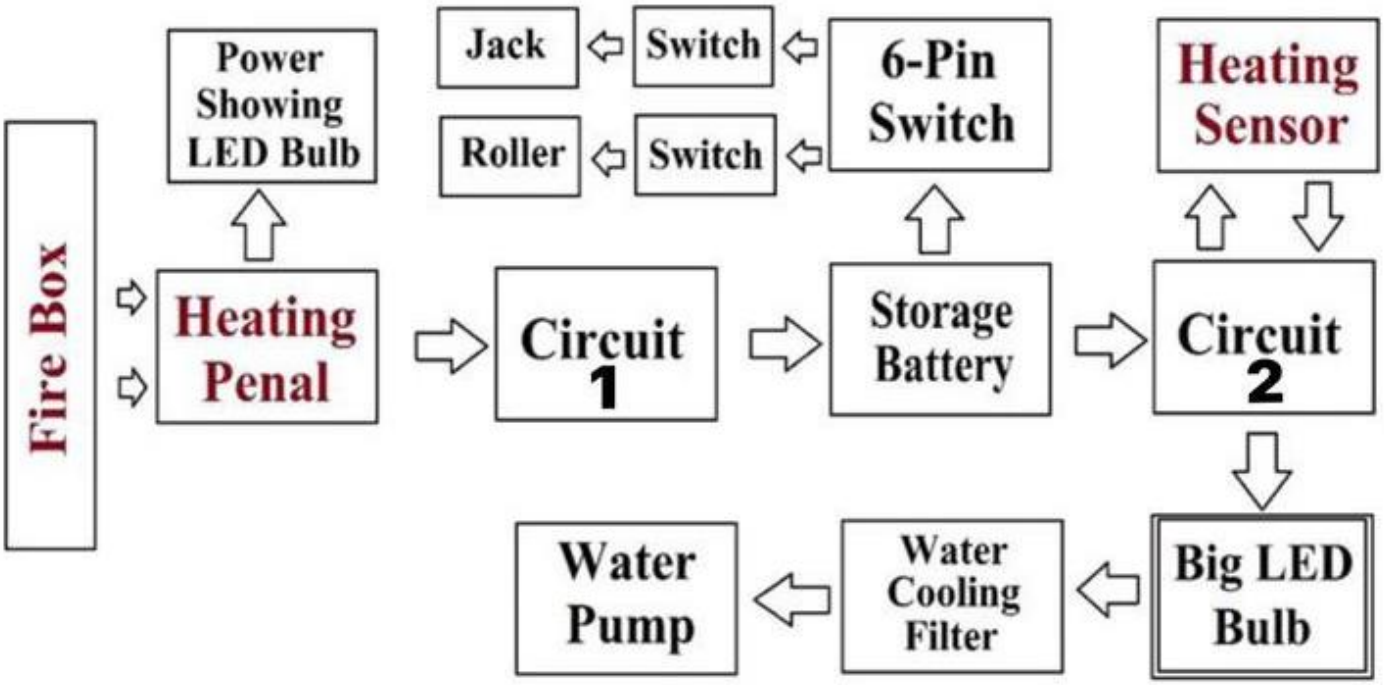
LITERATURE SURVEY

- Now-a-days we have so many more ideas for generating electricity, but in our idea we have shown a very different idea, because we have invented this idea before nobody tried to make this project. Everyday, everyone for making food burns so many matter that can be useful for some other purpose so we made a different type of zaar box. When someone wants to make food, so they might start burning some fuel, at that time, our zaar box waste will burn extra heat which will be used for converting heat into electricity and that electricity can used in real life and also we can store that electricity .
- In India, there's one city for sure that has tasted success in converting waste into energy without harming the environment. Maharashtra's Solapur, where a waste-to-energy plant has daily generated 3 MW of eco-friendly power for the last two years, boasts of this success. Solapur has a population of 10 lakh and generates 5,000 tonne of municipal waste daily. Earlier, this waste was dumped in a landfill along the Pune-Hyderabad highway. This presented an ugly sight, and an unbearable stench for the commuters. Now, the pile has disappeared and has been replaced by a power plant of Organic Recycling System (ORS), a private firm that develops clean electricity from waste.

This project from solhapur basically burns waste and generates direct electricity and there’s no storage of electricity. But the project we are tyring to make stores the electricity and then generates it.

BLOCK DIAGRAM

Fig no.1



In This Block Diagram you can see when we burn waste materials and fire box then heat generating and heating panel starts to heat convert electricity and after that that electricity we can see by LED Bulb glowing and that electricity go to circuit and after that in battery and start storing power and when electricity store in battery then heating sensor turn on the output power supply and LED Bulb start glowing and pollution control filter start working .

Circuit 1: heating panel circuit.

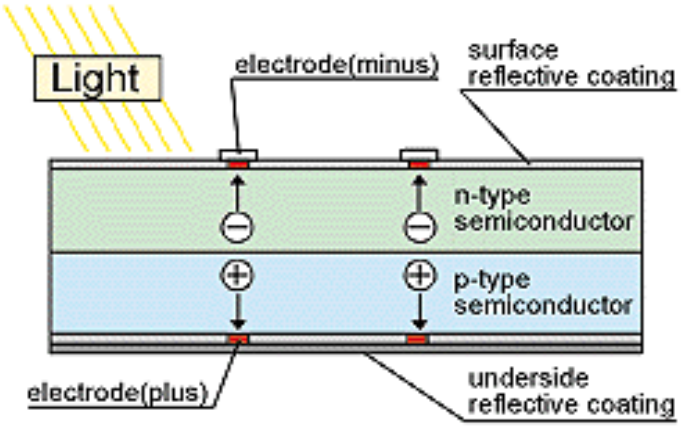
Circuit 2: heating sensor circuit.

WORKING PRINCIPLE

Simply put, a Heating panel works by allowing photons, or particles of light or heat , to knock electrons free from atoms, generating a flow of electricity. Heating panels actually comprise many, smaller units called photovoltaic cells. (Photovoltaic simply means they convert heating or light into electricity.)

How to Work Heating Penal

Fig no. 2



A p-n junction is formed by placing p-type and n-type semiconductors next to one another. The p-type, with one less electron, attracts the surplus electron from the n-type to stabilize itself. Thus the electricity is displaced and generates a flow of electrons, otherwise known as electricity.

When heat hits the semiconductor, an electron springs up and is attracted toward the n-type semiconductor. This causes more negatives in the n-type semiconductors and more positives in the p-type, thus generating a higher flow of electricity. This is the photovoltaic effect.

METHODOLOGY

The first step before the project implementation was to review The project scope and research area. Then the next task was to Design the mechanical structure and electrical structure of the conveyor belt which is To be built. Then, if all the design had been finalized, the implementations of the hardware and the circuitry took place. Reaching the pick of the project, the programming segment Took place especially for the heating penal output , heating sensor sensing process and Output to the LED Bulb glow for . Last But not least, certain modification on the circuitry and soft-Ware took place in order to make the system perform in finer Movements. Thus, troubleshooting process also took place to Correct certain faulty processes while the system was performing its task.

HARDWARE SPECIFICATIONS

Table no. 1

SN	Component
1	Heating Penal
2	Heating Sensor
3	Capacitor 25v/1000uf
4	LED Bulb
5	Resistor
6	DC motor 3000 RPM
7	Battery 4.5V
8	PCB
9	Jack System
10	Switch
11	IN4007
12	Wire

ADVANTAGES

- He can generate electricity by solid waste
- He can generate electricity within second and anywhere
- We can use any where
- Making cost very less and any where we can make
- He can generate electricity depend on heating penal voltage and zaar box size
- We can generate electricity making food time.
- We can collect Corban by this idea and make many product by Corban

LIMITATIONS OF THE SYSTEM

1. We can not burn waste materials in large level so we can generate electricity only normal level .
2. We can control pollution 100% when we burn plastic and other .

FUTURE DEVELOPMENT

- Effectiveness of this project can be improved by following this
- Recommendation:
- We can make high quality heating penal for generate high electricity
- We can make large level burning box with easily heating penal connecting system
- We can make best storage system by generate electricity by waste materials.

APPLICATIONS

- Waste-to-energy plants burn municipal solid waste (MSW), often called garbage or trash, to produce steam in a boiler that is used to generate electricity. MSW is a mixture of energy-rich materials such as paper, plastics, yard waste, and products made from wood.
- Biogas.
- Power Generation.
- Anaerobic Digestion.
- Gasification.
- Incineration.
- Energy Technology.
- Biomass.
- Feedstocks

CONCLUSION

Electricity by waste materials is successfully and we show in project how to control pollution by Pollution control filter , When we making complete our project then we check it's full working ,that time he's working is very good without any problem So our Project is best for working and Showing , How to Generate Electricity by Waste materials.The waste to energy plants across the world have been initiated in varying capacities and varying degrees of success. But one cannot ignore the impact of global waste to energy market and its impending growth in the next few years. The market is expected to grow by 5.9 percent on an annual basis to reach a whopping $37 billion by 2020, from nearly $25 billion in 2013. The Waste to Energy Research and Technology Council is keen to boost growth in the market with the introduction of best waste to energy technologies, collaborating with its agencies based in Brazil, Chile, Italy, China, and India. The real-life plants and their staggering impact will help other plants to follow suit in leveraging waste to useful energy while conserving land resources worldwide.

REFERENCES & BIBLIOGRAPHY

- Literature Survey of Luminous, Su-Kam from google. com
- Literature Survey of Md. A. Hussainfrom google. Com
- https://www.flipkart.com
- https://www.electronicscomp.com
- www.googleimages.com
- www.reserchgate.com

ACTION PLAN

Table no. 2

WEEK NO.	ACTIVITIES PLANNED	PLAN DATE
01	We prepared a list of projects and found out interested project with the guide	**17/8/22**
02	We searched information related to interested projects.	**24/8/22**
03	We discussed with guide about the problems related to project before finalizing it.	**14/9/22**
04	Finalization of project, industrial survey and literature review.	**21/9/22**
05	We discussed following points regarded to project- 1) Purpose of project 2) Social concern 3) Environment sustainability 4) Industry/ application study	**28/9/22**
06	Identify problems and purposed methodology of solving problems and identification of resources.	**12/10/22**
07	We finalized the project proposal from guide and begin to maintain the record (diary).	**2/11/22**
08	We prepared the block diagram of project and checked the proposed effectiveness and function of prototype	**9/11/22**
09	We sortated out the individual responsibilities and leadership with our guide	**16/11/22**
10	We completed our task allotted by our project guide in proper allotted time accurately	**23/11/22**
11	We discussed with the guide about the problems we faced while working with the prototype/Hardware	**30/11/22**
12	We searched the overall information regarding project report	**7/12/22**
13	We prepared the report including documentation and approved it from our project guide	**7/12/22**
14	We prepared the final presentation on project report	**14/12/22**