

## ELECTRICITY GENERATION FROM COW DUNG

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### ABSTRACT

*Cow dung is viable source of electricity but the generated current is not enough. It can be increased by addition of certain substances having higher conductance like manure, compost. This is the research work for generation of electricity from cow dung as well as effect on the current due to addition of manure and compost. Cow dung is collected in a container and then a paste is made out of it using water. Salt is added to it. A circuit is constructed using wires and two electrodes. Upper wire ends are connected to an LED, a motor etc. and the lower wires are connected to electrodes of graphite. These electrodes are kept inside the cow dung and the current is observed. The electrodes are taken out and compost and manure are added. The current is checked again using a multimeter.*

*This report is based on the bio-chemical method of generation of electricity using cow waste and helps to reduce the enormous pressure on electricity sector.*

**Keywords:** *Electrodes, Graphite, LED, Compost, Manure.*

### I INTRODUCTION

Today, the electricity sector is facing problem due to increasing demands of society. Our society needs a better and more economical method to generate electricity. The purpose of this paper is to provide a viable solution to the above problem in the form of biochemistry. Cow dung which is regarded as fuel can also be used to generate electricity and this output can be increased using other conductive materials like manure and compost.

### II APPARATUS

- Cow dung
- Two graphite electrodes
- LED
- Motor
- Connecting wires
- Bucket (a container to keep cow dung)
- Gloves

- Stick (to stir the cow dung paste)
- Water
- Salt

### III PICTURES



### IV FIGURES AND TABLES

Sno.	Substances	Current	Voltage
1.	Simple Cow Dung	5mA	0.01V
2.	Cow dung + manure	10mA	0.5V
3.	Cow dung + manure + compost	20mA	0.9V

The electricity generated can be improved by:

- **Addition of tamarind powder**
- **Addition of more compost**
- **Addition of electrolyte**

### V CONCLUSION

The conclusion drawn from above table is that cow dung generates a fair amount of electricity as well as its conductivity can be increased by adding certain substances that have higher conductance than that cow dung. Thus, electricity is increased as it is related to conductance.

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