# Electricity Billing System

**Abhijit Bhale, Tushar Patil**

Abhijit, chandrapur, Maharashtra,
India Tushar, jalgaon, Maharashtra,
India

*Professor-* **<u>Rajendra babar sir</u>**, *Department of Information Technology,*
*Sinhgad Institute of Lonavala, Maharashtra, India*

**Abstract -** — The technology of automation has brought out major changes in almost all the fields. The aim behind innovations today is to reduce the manual work and to make the process efficient as well as accurate. One of the systems that has remained conventional since a long time is the electricity bill generation. There are a number of issues that arise due to manual billing which includes incorrect computation/calculations, improper meter reading, delayed bill delivery, rounding off issues etc. Another major drawback of manual billing is the storage of the bills and maintaining a history of electricity consumption. Proposals to automate this process are being continuously made. Here we will discuss the various types of electricity billing systems and group them according to their functionality, modes of operation and payment methods. The pros and cons of these systems are studied in detail.

## INTRODUCTION

- The Electricity billing system is a software based system/application.
- This project aims at the serving the department of electricity by computerized billing system.
- It mainly focuses on the the calculation of units consumed during specific time and the money to be charged by electricity officers.
- This Computerized system make the overall system easy and effective.

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### Aim and objective

- The aim of this project is to make electricity billing system fast and less time consuming.
- With the help of this software we can handle all billing related queries at one platform.
- Due to this software the work done by physically now it will shift towards digitalization.

The aim of our project is to develop a system that is meant to partially computerize the work performed in the electricity board like generating monthly electricity bill, record of consuming unit of energy, store record of the customer and previous unpaid record.

## METHODOLOGY

The conventional method of electricity billing involves a person from the distribution unit reading the number of units of electricity consumed in the energy meter, conveying this information to the distribution unit, and then preparing the bill according to the units consumed for a fixed amount of time. This can prove quite deliberately making a false reading can exist (political reasons). Despite this, the task of billing for every consumer is a time- consuming job for the distribution grid.

Also, the consumer can deliberately consume more amount of power than required and still refrain from paying the bill and nothing can be done to severe the electric power supply.

### Motivation

- Our main motive is people who get stressed out due to spending lots of time in the line where we pay our electricity bill physically.

- And to know exact use of our electricity by computerized unit measuring system.

- The motivation behind the task is **to fabricate an application program** to lessen the manual work for dealing with the measure of units devoured by the clients and producing the power charge as indicated by the sort of client – individual or business. It shows the subtleties of the clients, units devoured by them and bill history.

### Problem Statements

The manual billing system is suffering from various drawbacks.Since whole bills is to be maintained physically.

Keeping and maintaining the information becomes very tedious and lengthy.

For this reason we have provided features present in system is partially automated.

Tools used:

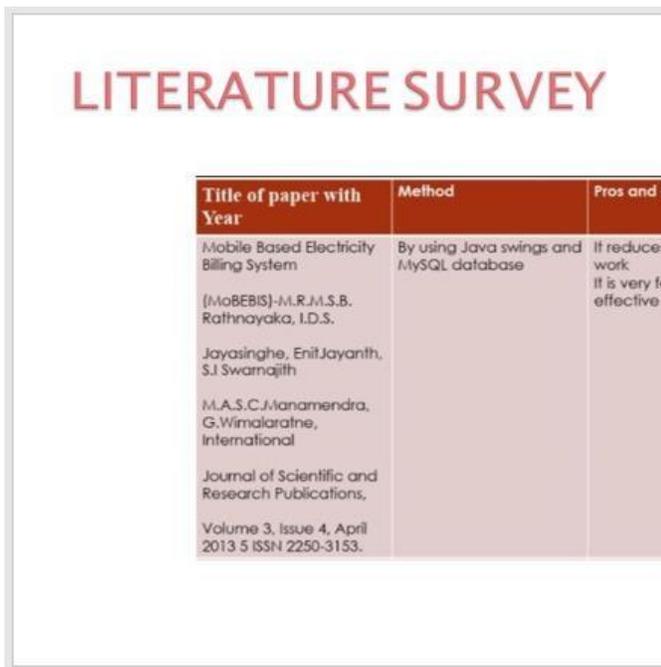**Software Requirements Java Tools – NetBeans IDE**

**Programming Language - Java Database Requirements – MySQL** Hardware Requirements

**Processor – Intel Pentium V or higher Speed - 1.1 GHz**

**RAM – 16 GB**

**Hard Disk - 20GB**

**Literature Survey**



**Conclusion**

After all the hardwork is done for electricity billing system is here.

It is a software which helps the user to work with the billing cycles,bills,managing different details under which are working etc.

This software reduces the amount of manual data entry And gives greater efficiency.

The user interface is very easy to use and very effective.

**Future Scope**

- Now the world is about indefinite use of technology/internet.
- And with increasing digitalization online system growth will increase.
- More use of websites,applications will be 8n use.
- So online system is future proof.

**Reference**

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