

## Project : Energy Guard

### Description :

Developing a web application focused on industrial energy management through IoT sensors installed on various machines. The application's key functionalities include collecting data from these sensors, analyzing the gathered information, and presenting a comprehensive dashboard. This dashboard offers visual representations such as charts and tables to provide insights into energy consumption patterns within the industry. The goal is to empower users to monitor, analyze, and optimize energy usage efficiently for enhanced sustainability and operational efficiency.

### Technologies :

- FrontEnd: ReactJs
- BackEnd: ExpressJS
- DataBase: MongoDB

Energy Guard features a web application offering:

- Measurement of electrical and thermal energy parameters.
- Real-time monitoring of sensitive parameters (power factor, harmonics, etc.).
- Tracking of alarms and events, along with production management.
- Cost accounting and reporting of energy consumption.