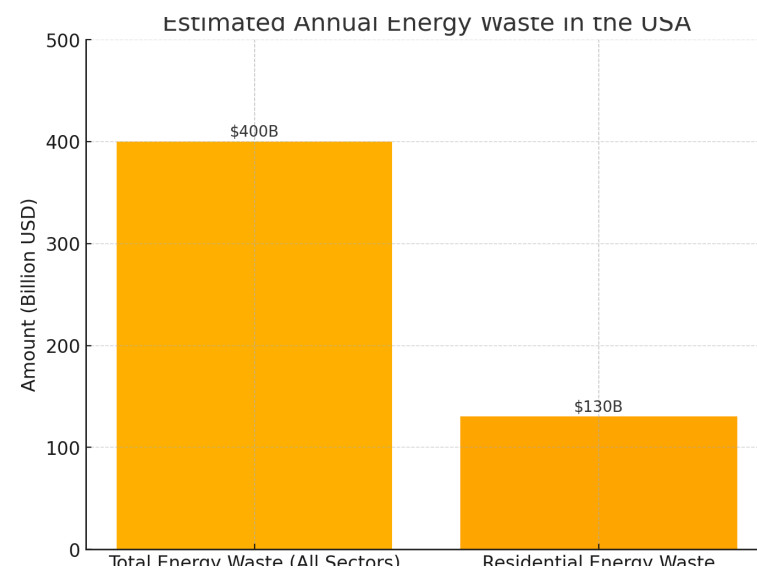


# ECOMINDER

Smart Power, Every Hour.  
By Aarthit Prabhu

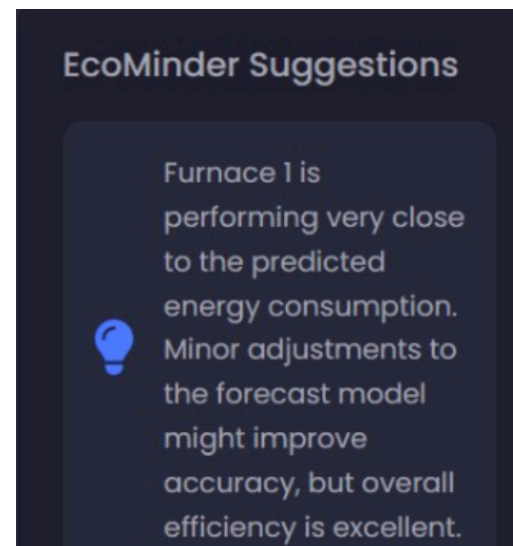
## Problem Statement:

**130B** dollars per year, only in the U.S.A., is the amount of money wasted on the overusage of electricity, and most people can't track it in real-time, as there are not many methods which are under \$250, causing an overspending of money on the electricity bill.



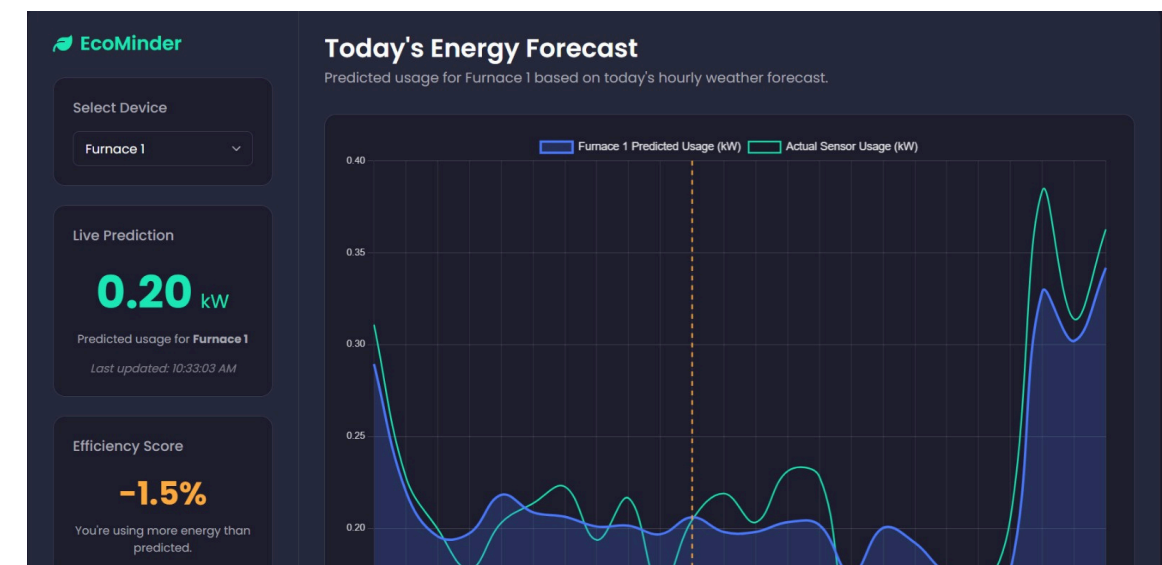
## Objectives:

We hope to offer real-time tracking of electrical usage using smart sensors(platinum version) and an AI prediction model, and an AI chatbot which gives personalised feedback to help reduce energy waste and carbon emissions, and save money.



## Methodology:

- Smart Home Energy(Kaggle dataset)
- AI model trained with a random forest
- Live weather data scraped from the users location, along with the analysis of past trends to help test the model
- Web-App which shows actual energy vs predicted energy and the efficiency score



## Results:

EcoMinder helps to reduce electricity bill by **10-30%**, reduce carbon footprint and energy waste.

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## References:

- Kaggle Smart Household Data
- ChatGPT for graphs

