Loise Anono
Role: Research Associate –Intelligent Grid Systems

Introduction

I am an engineer professional, dedicated to improving energy systems through monitoring to diagnose defects and inefficiencies. Passionate about using AI and ML to forecast and predict energy consumption. I utilize tools to analyze energy data.

Energy Management

Using tools to advise and guide facilities on energy and power consumption.

Real-Time Energy Monitoring

Use of smart IoT energy meters to monitor facility consumption.

Energy Data Analysis

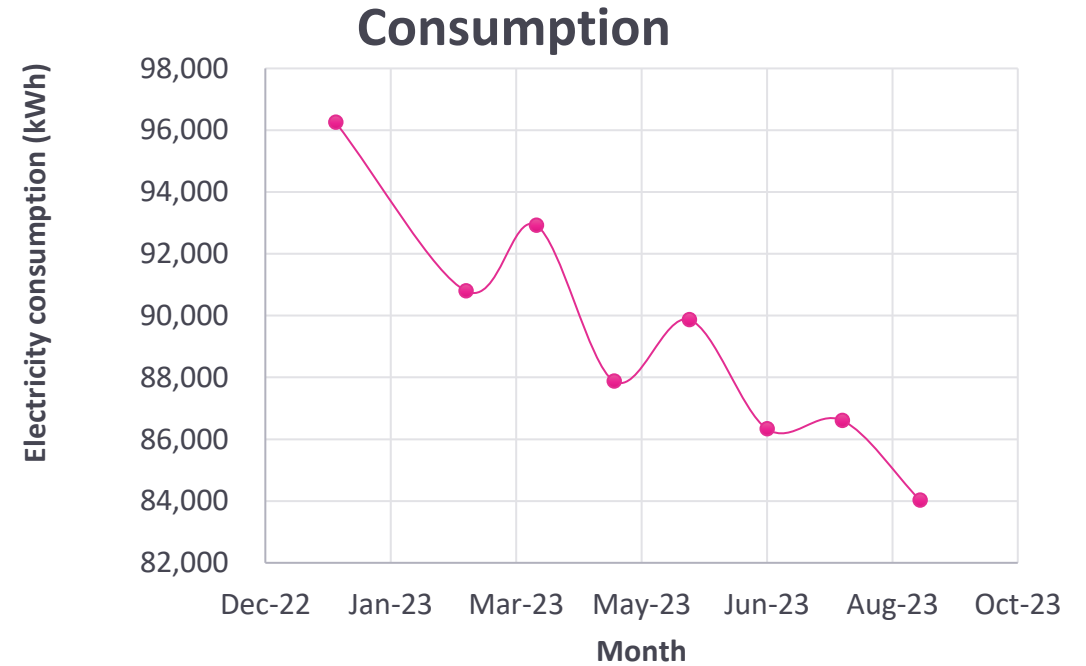Use of utility bills and real-time data to tack and predict energy consumption for facilities.

Solar PV and Energy efficient Projects

Use of analyzed data to design solar PV systems and develop energy efficient projects.

Energy Management

➢ Managed energy consumption across five facilities.

➢ Leading to diagnosing of equipment inefficiencies in heat pumps, HVAC units, Power Factor correction, Solar generation and generator operation.

➢ The facilities saved up to 15%in energy costs.

Consumption

Energy Monitoring

> ➢ Led the installation of 100+ smart IoT meters in several facilities.

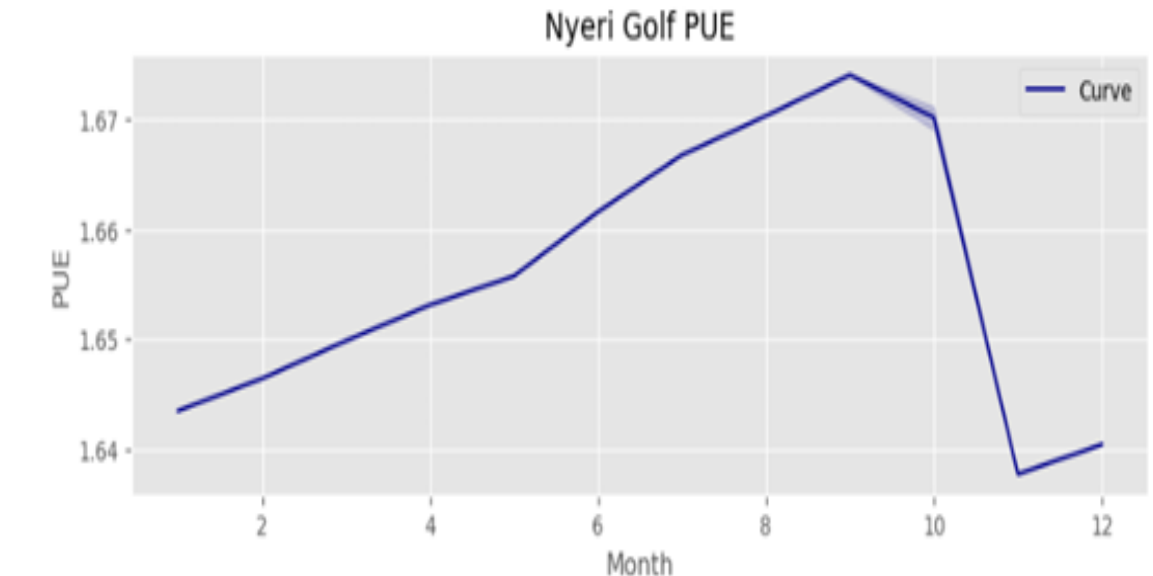> ➢ Spearheaded the integration of these meter to AI integrated software.
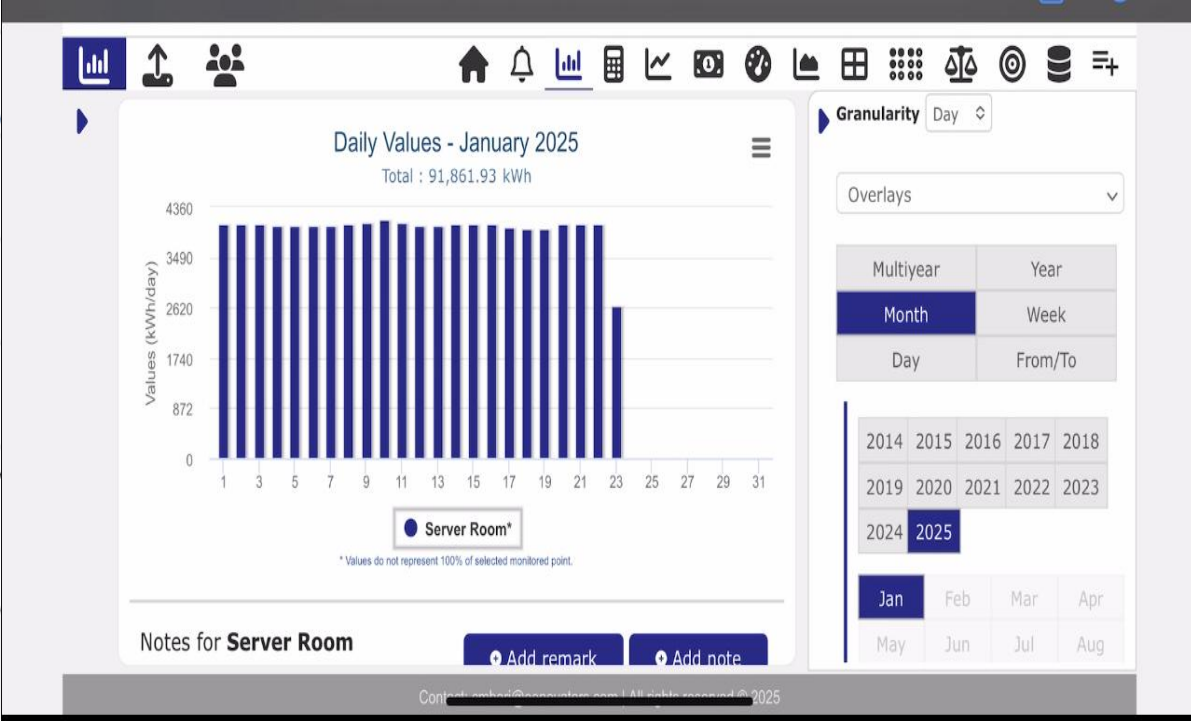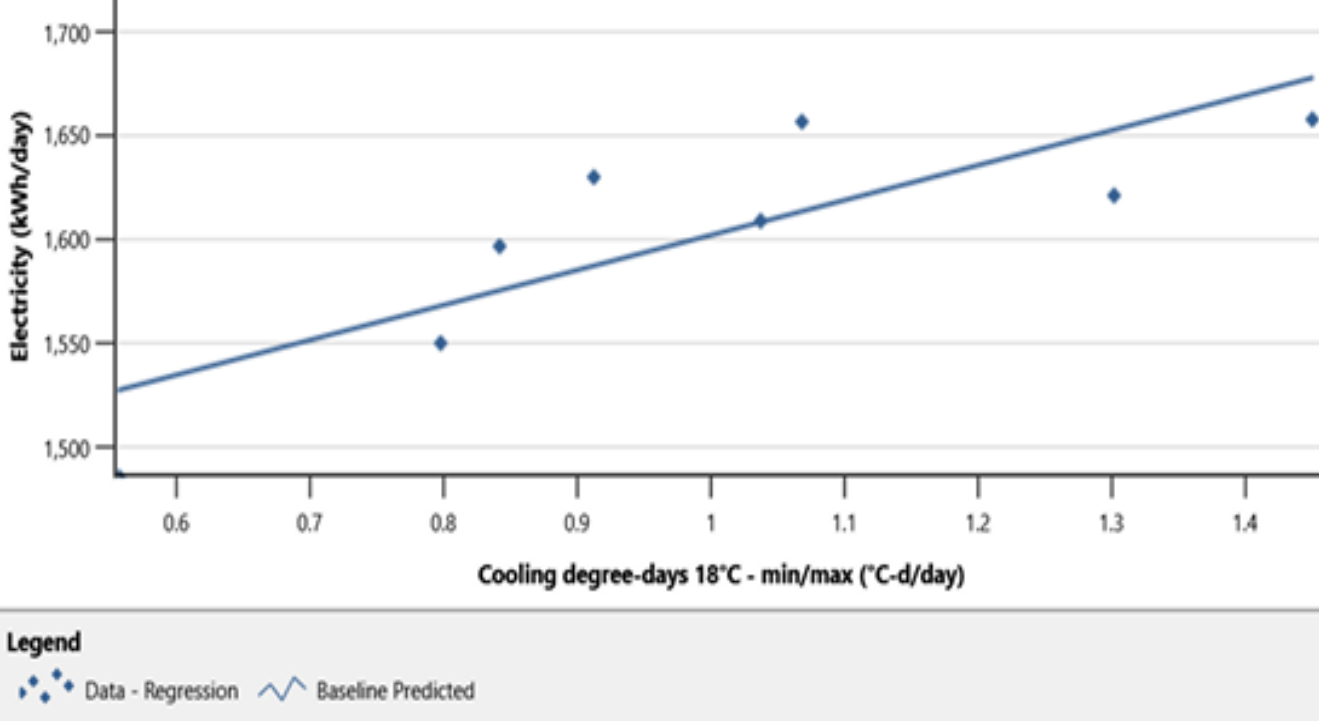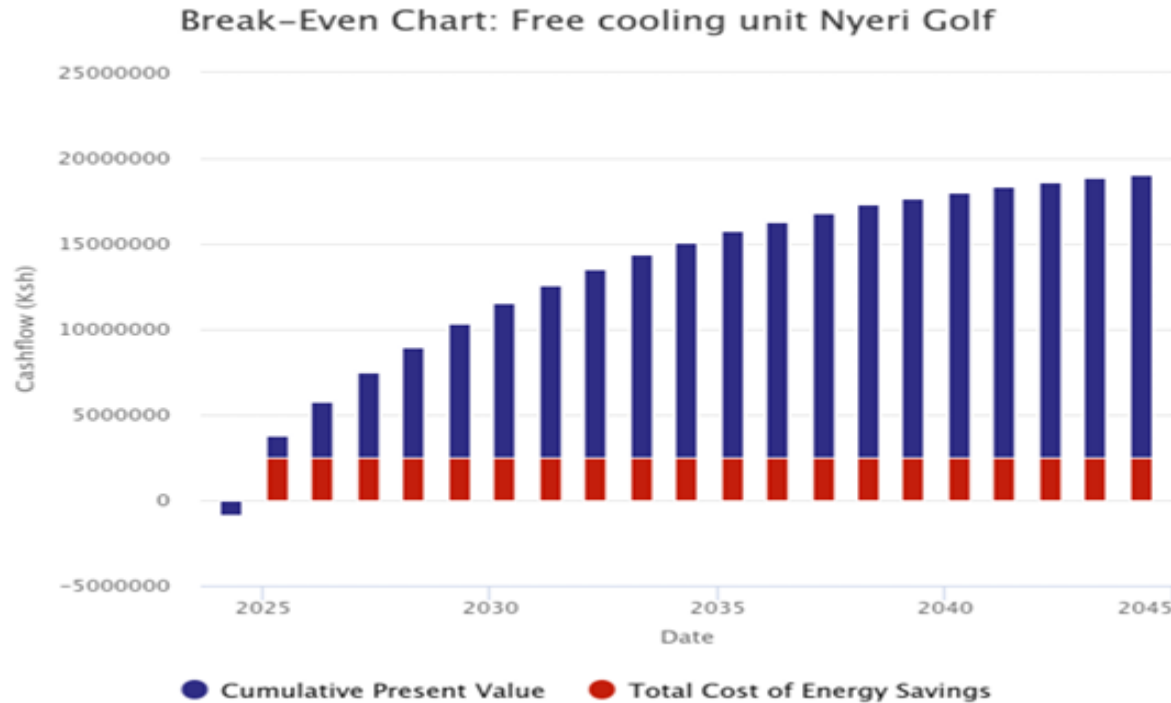
Energy Data Analysis and Data Modelling

➢ Performed energy analysis for several facilities for energy audits, consumption analysis or M&V.

➢ Tools used:

- Python -for cleaning and reading large data sets.

- Retscreen – for consumption analysis and M&V savings.

- Excel – for minor equipment analysis.

Energy Data Analysis and Data Modelling

Solar PV and Energy Efficient (Project Development and Financial Analysis)

Break–Even Chart: Free cooling unit Nyeri Golf

- ➢ Managed energy consumption across five facilities.
- ➢ Leading to diagnosing of equipment inefficiencies in heat pumps, HVAC units, Power Factor correction, Solar generation and generator operation.