POWER SUPPLY MONITORING SYSTEM TRAINING MANUAL V1.0

Ibadan Electricity Distribution Company plc

STATISTICAL DASHBOARD

INTERRUPTION READING

READING REPORT

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Introduction

Today, technology is evolving at an increasingly fast pace. As a business owner, it is important to keep up with technological advances to remain profitable and efficient. IBEDC as an organization is adopting technology to improve efficiency in its internal operations and processes.

A power supply management System (also called "PSMS") is a robust application designed to help plan, monitor, and for energy management. The application is designed to enable employees t o carry out their daily operations like Interruption reading, Hours of interruption, reading reports, and energy management amongst other functions.

Psms Manager will help IBEDC as a business to :

1. Increase the reliability of its operations due to analytics-based capacity planning and KPI monitoring.
2. Improve quality management and regulatory compliance due to standardized operational processes and visibility into operational workflows.
3. Mitigate operational risks due and to improved operations monitoring, availability of tools to raise alerts on operational issues and then collaborate on their resolution.
4. Reduce reporting latency due to automated collation and analysis of operational data.
5. Improve productivity and collaboration of employees involved in field operations due to automated requests and communication tools.


For proper understanding of the PSMS environment, the diagram below shows the PSMS dashboard after login. Each module of the application is detailed on the left-hand side of the dashboard. Navigation within the application is easy and user friendly.

1.   DASHBOARD

The dashboard gives the statistical information of all the feeders in a region chosen.

The following steps are to be taken to get a feeder statistical information:

1.   On the Menu, Click on **Dashboard**
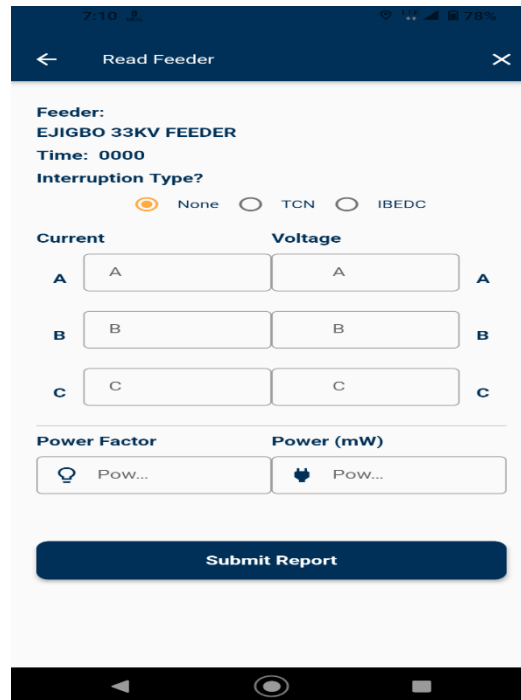2.   Click on the feeder
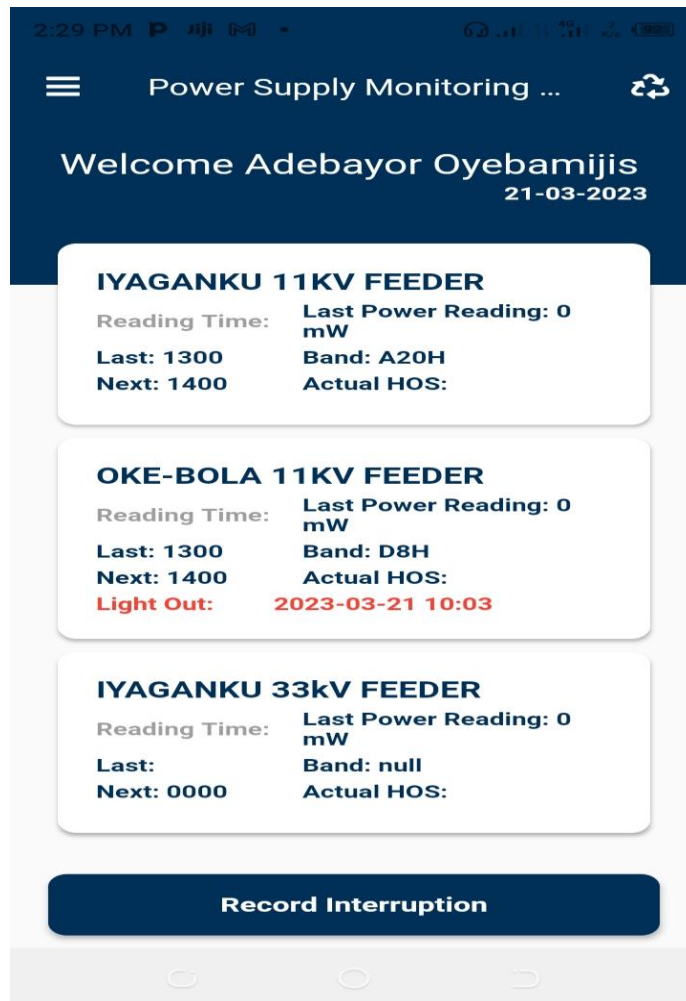
The feeder list is for you to record your hourly reading while the record interruption is for you to record interruption both planned and unplanned.

When you want to record hourly readings for a certain feeder, select that feeder in the list of feeders on your dashboard.

When the feeder information opens, you will see

NEW READING MODULE
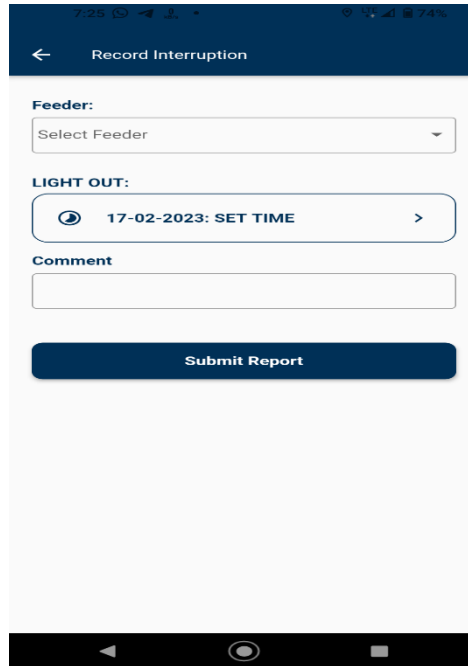
Interruption type: Select if it's None, TCN, or IBEDC

When no interruption on the feeder selects None, if there is, select if the outage is from TCN or IBEDC.

1. Current & Voltage: If the light is available input the current and voltage reading, when light is not available, after selecting the interruption type in bullet 1 above, you will not be able to select the current but you can still input Voltage.

2. Power factor: Input your power factor too. Then submit the report.

Record Interruption: You can record interruption any time of the day, when you click on record interruption, the display will be like the image below
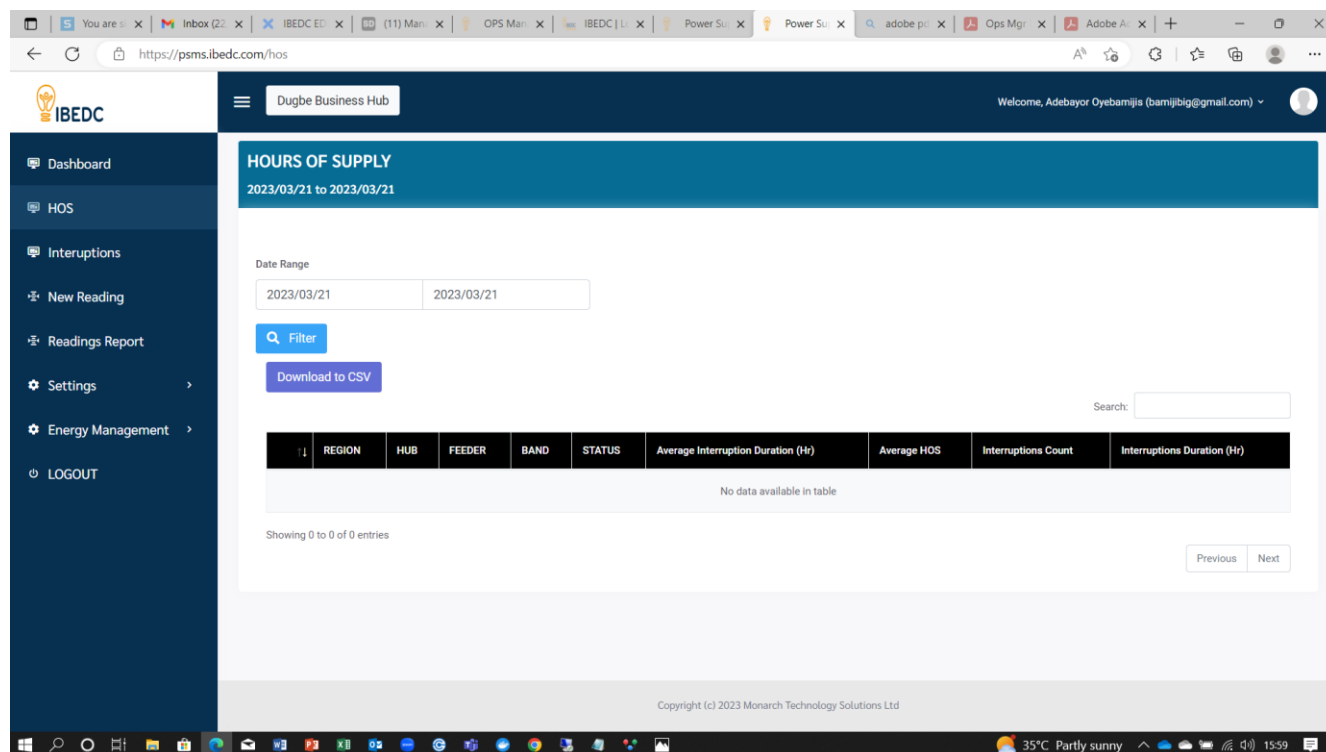
Then select the feeder type, input the time the light out occurred, and when the light is restored input the time the light is restored.

On the web:

The report of the record of Interruption sent-, is available to view, export, and action upon by relevant parties.
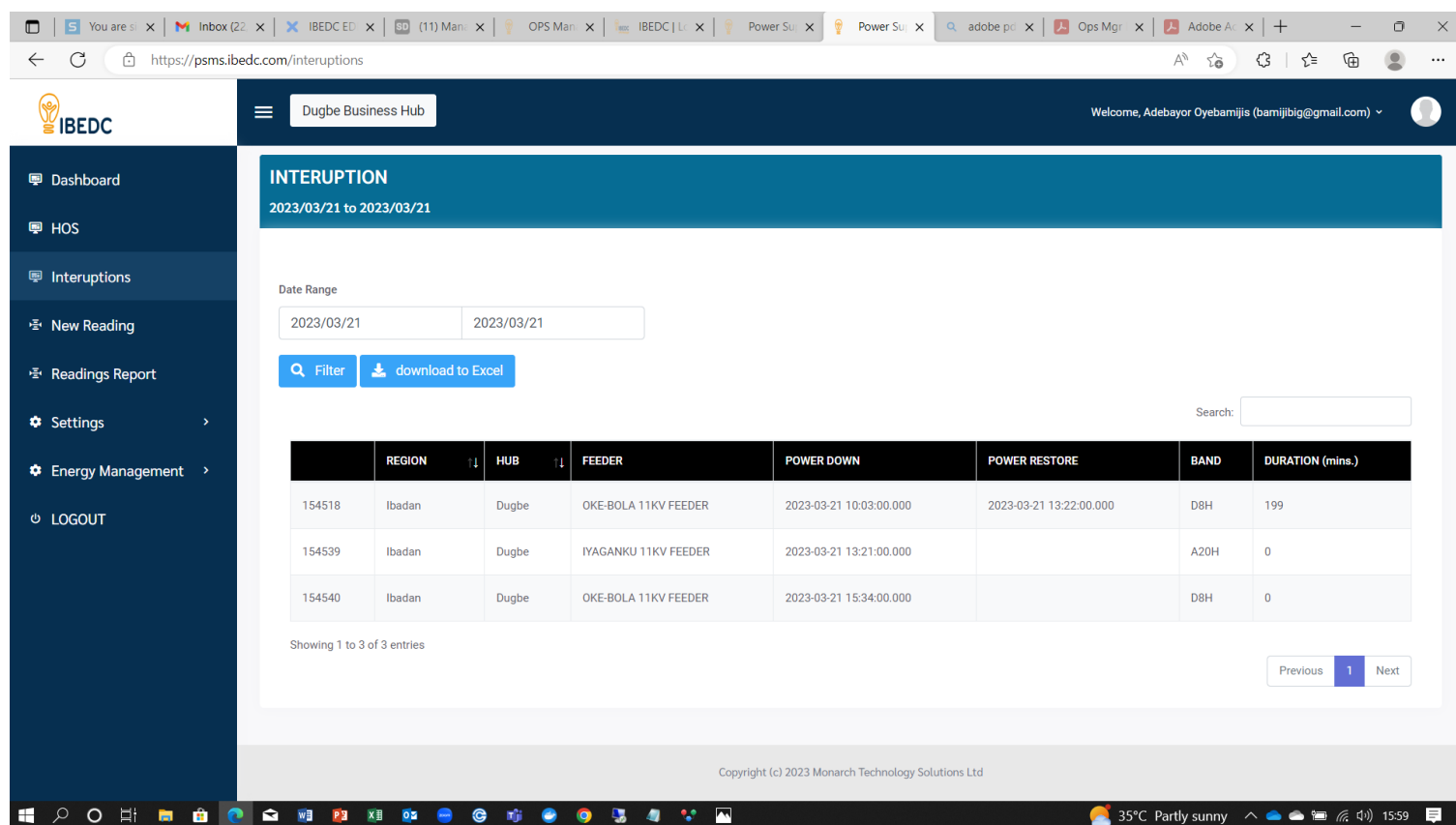
Under the Action column, the view button is there to view the full details of a particular request.

HOS MODULES

The HOS module shows the information of each feeder: It shows the region and business hub where the feeders belongs to, it also shows information of Average hours of supply and the duration at which the interruption occurs.

INTERRUPTION MODULE

The Interruption modules give a report of the feeders with their respective bands and the time at which it is not energized(Interruption) and the time it is restored(power restored), the calculation of the duration in minutes is gotten from the differences in hours of interruption(power down) and when it is energized (power restored).

Energy Management Module

The energy management modules give detailed reports on feeders, information such as feeder type, category, minimum voltage and current, maximum voltage and current, minimum and maximum power factor, meter number, and bands.