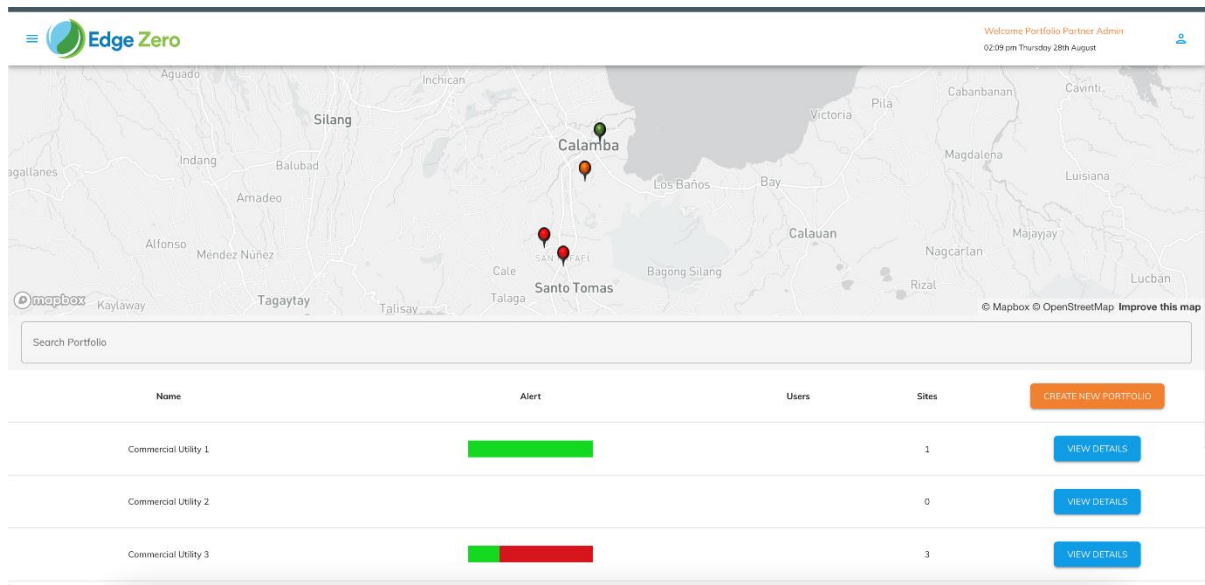


Commercial Portal V3.4.0

Tabel of Contents

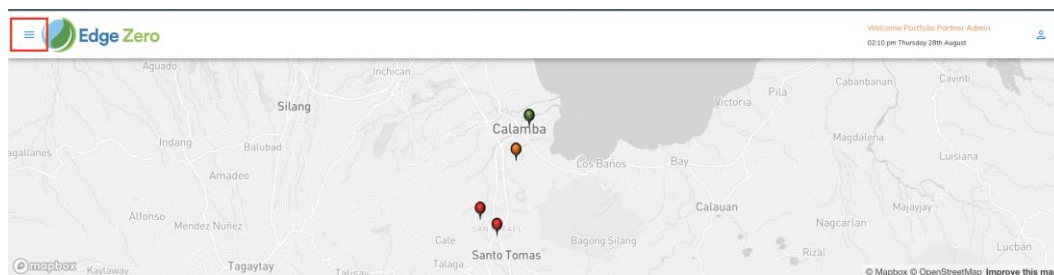
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Portfolio Management



Name	Alert	Users	Sites	
Commercial Utility 1	<div style="width: 100%; height: 10px; background-color: green;"></div>		1	VIEW DETAILS
Commercial Utility 2	<div style="width: 0%; height: 10px; background-color: green;"></div>		0	VIEW DETAILS
Commercial Utility 3	<div style="width: 50%; height: 10px; background-color: green; background-image: linear-gradient(to right, red 49%, green 49%, green 51%, red 51%);"></div>		3	VIEW DETAILS

My Portfolio components



1. The 3-bar icon opens the main menu for navigating the platform.

The menu has 2 main sections.

- **Portfolio Management** – Viewing of Creating of Portfolio.
- **Master Config Management** – Managing of Portfolio Configuration

2. Role Information & Switch the role – If user may have multiple roles, switch to another role.

Portfolio Management

My Portfolio

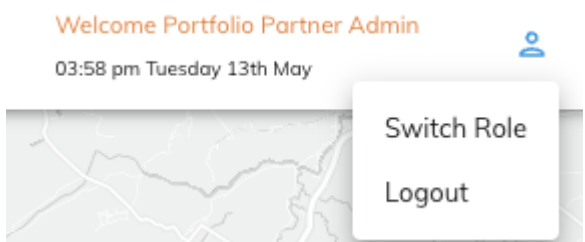
User Management

Manage Partner Users

Master Config Management

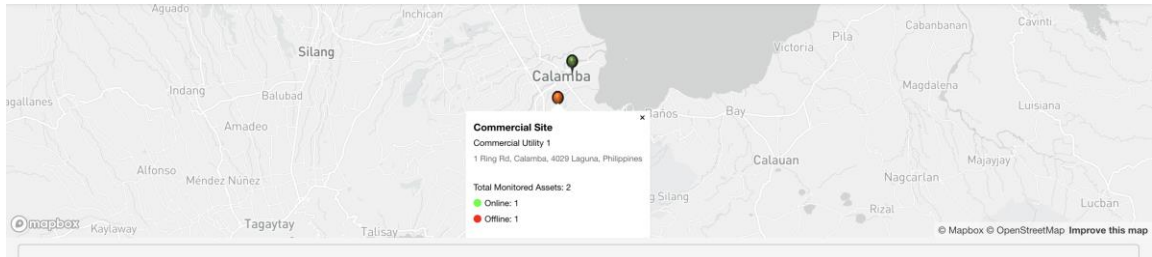
Master Config Management

Portfolio,



Welcome Portfolio Partner Admin
03:58 pm Tuesday 13th May

Switch Role
Logout



3.

Map pins – displays the location where the site is located and which portfolio the site belongs to as well as the number of monitored assets installed on the site. The marker is based on the following criteria:

Green Marker – All monitored assets on the site are online.

Red Marker – All monitored assets on the site are offline.

Orange Marker – Mixed offline & online monitored assets.

4. Create New Portfolio

- Portfolio Name
- Phone Number
- Address
- City, State, Postcode, Country
- Group Label, Subgroup Label: 'Group Label' & 'Subgroup Label' refers to the label to be displayed on tier 1 & tier 2 selection (To be removed once the new installer app is deployed)

Create Portfolio

Portfolio Name

Phone Number

Address

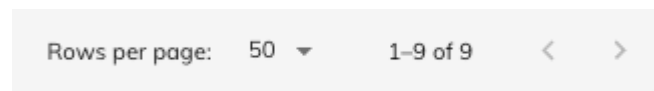
City State

Postcode Country

Group Label Subgroup Label

5. Pagination

- List page is paginated and can support 100 portfolios per page.

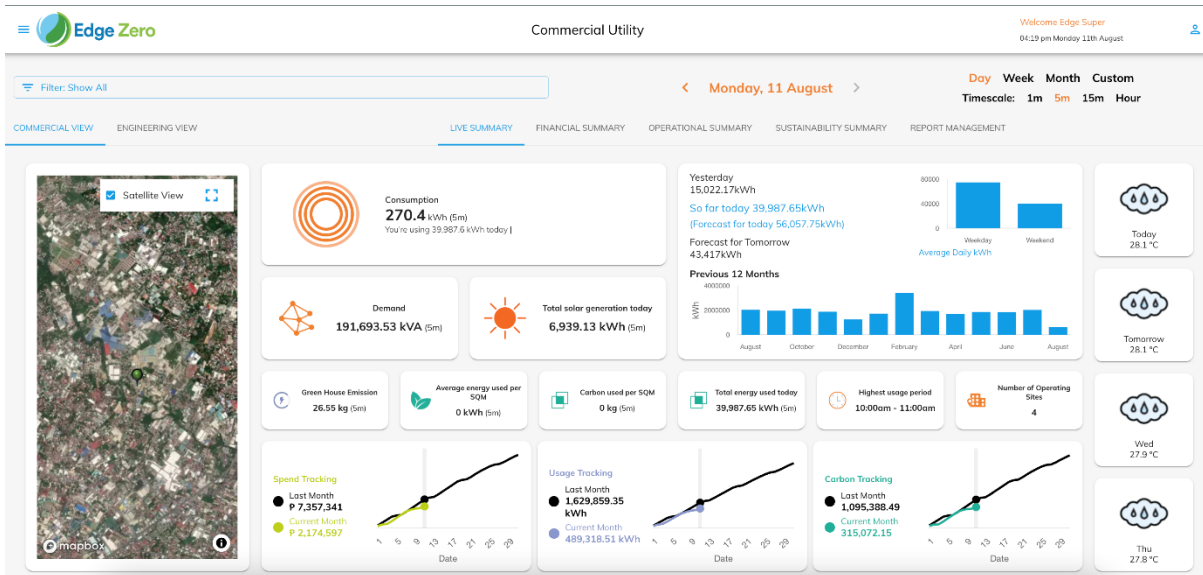


Commercial Utility 1	<div style="width: 100%; height: 10px; background-color: green;"></div>	1	VIEW DETAILS
Commercial Utility 2	<div style="width: 100%; height: 10px; background-color: red;"></div>	0	VIEW DETAILS
Commercial Utility 3	<div style="width: 100%; height: 10px; background-color: green;"></div>	3	VIEW DETAILS

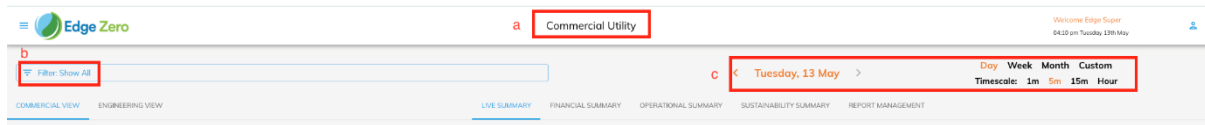
6. Alert bar - Show online/offline monitored devices count with colours (Online – green, Offline – red)

7. View Details

- View Details button– Open to view details selected portfolio into new tab.



Portfolio Details Page



1. Portfolio Details Header

a. Portfolio Name

b. Site Tree

This feature allows you to tailor your data views to focus on the information most relevant to your needs. You can filter and organize data based on power source, power load, or monitored locations.

Show All

Power Sources ▼

Power Loads ▼

Monitored Locations ▼

Power Sources ▲

All Main Power

All Solar Power

By selecting Power Sources, it will select all main power & solar power installed on Portfolio. You can choose to view data from just the "Main Power," just the "Solar Power" or both by selecting the corresponding option(s).

To see a combined view of all power consumption, regardless of whether it's from the grid or solar panels, ensure both "Main Power" and "Solar Power" are selected under the Power Source filter.

- Power Loads** ^

- All 300kVAR-Cap-Bank_LVSG (4)

- All Add-Pharma-Load (1)

- All Casino-Load (1)

- All Copra-Bodega-Bldg (1)

- All EE-Rooms-Load (1)

- All Finished-Product (1)

- All Load-Prov-(TABOK) (1)

- All PB-EE (1)

- All Pharma-Bldg.-Loads (1)

- All PHARMA-BUILDING-LOADS (1)

- All Raw-Materials-Bldg-Loads (1)

- All Soapery-Bldg-Loads (1)

- All Spare (2)

By selecting "Power Loads" option, it will select all loads installed on Portfolio.

Select the specific power load(s) you want to view. You can choose one or multiple loads to customize your data view.

Monitored Locations	^
<input type="checkbox"/> IPI Cebu - LVSG 1	^
<input type="checkbox"/> Main Power	∨
<input type="checkbox"/> Solar	
<input type="checkbox"/> Power Loads	∨
<input type="checkbox"/> IPI Cebu - LVSG 2	∨
<input type="checkbox"/> IPI Cebu - LVSG 3	∨
<input type="checkbox"/> IPI Cebu - LVSG 4	∨

Monitored Locations contains the sites attached to the Portfolio

You can filter the data to view information from specific sites within your Portfolio. You can choose one or multiple monitored locations to customize your data view

c. Date Selection, Granularity

This allows you to specify the time period for which you want to view data.

You can view data by day, week, month or by custom date range

The **Granularity** setting allows you to control the level of detail shown in your data view. By adjusting the granularity, you can see data aggregated in different time intervals (1m, 5m, 15m & hour).

However, it's important to note that some granularity options are disabled or unavailable depending on the date range the user have selected.

date range < 7 = 1m is disabled

date range <= 31 = 1m & 15m are disabled

< Monday, 19 May >

Day
Week
Month
Custom

Timescale: 1m
5m
15m
Hour

Custom allows user to directly enter dates into designated fields. When using a custom date range, ensure that the period between chosen to start and end date does not exceed 31 days.

From
 19/05/2025

To
 19/05/2025

UPDATE

Day
Week
Month
Custom

Timescale: 1m
5m
15m
Hour

For optimal reporting and analysis, the maximum selectable date range is 31 days.

2. Details component

The Tabs are split into two:

Commercial View: This view is designed to provide insights and data relevant for business and operational stakeholders. It might present data in a more summarized or financially-oriented manner. The customization options within this view will allow you to filter and analyze data based on aspects important for commercial analysis.

Engineering View: This view offers a more detailed and technical perspective on the data, catering to the needs of engineers and technical users. It might provide access to more granular data and specific technical parameters. The customization options here will allow for in-depth technical analysis of the power data.

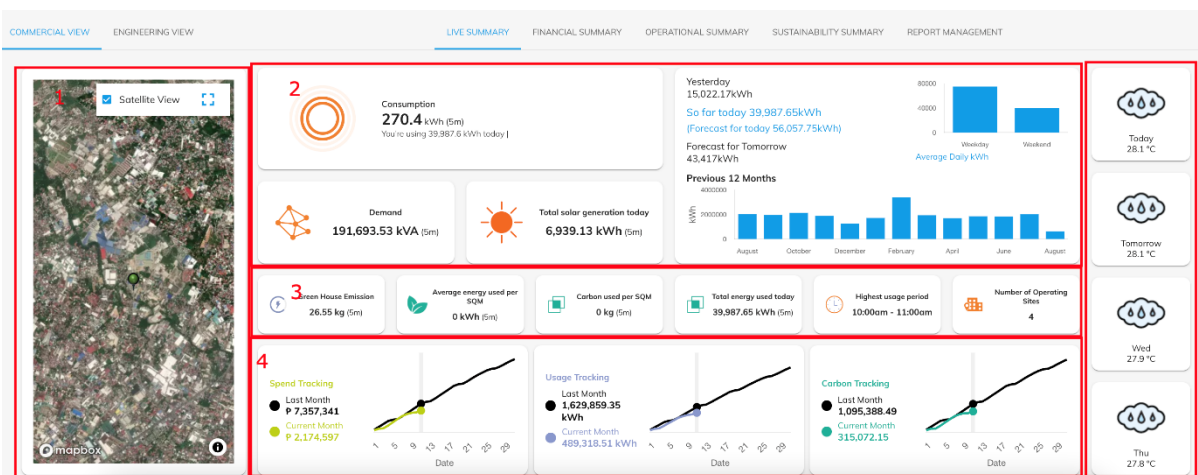
To switch between these views and their respective customization options, simply click on the corresponding tab at the top of the data customization interface:

a. Commercial View

This view provides a business-oriented perspective on your data and is further divided into the following five tabs: Live Summary, Financial Summary, Operational Summary, Sustainability Summary & Report Management

- **Live Summary**

This tab offers near real-time overview of key commercial metrics



1. Satellite Map
2. Consumption Details – This shows the current day consumption based on selected filter. It also includes the consumption for the past year and forecasted consumption based on previous consumption records.
3. More Card Details - This includes helpful data based on the current day.
4. Spend, Usage & Carbon Tracking - This tracks your generation charge cost, energy usage, and carbon emissions by comparing the data from the last full month with the data from the current month.
Note: Spend Tracking will only show if there's generation charge setup on financial config summary.
5. Weather details – This shows the 4-day weather forecast based on selected location.

- **Financial Summary**

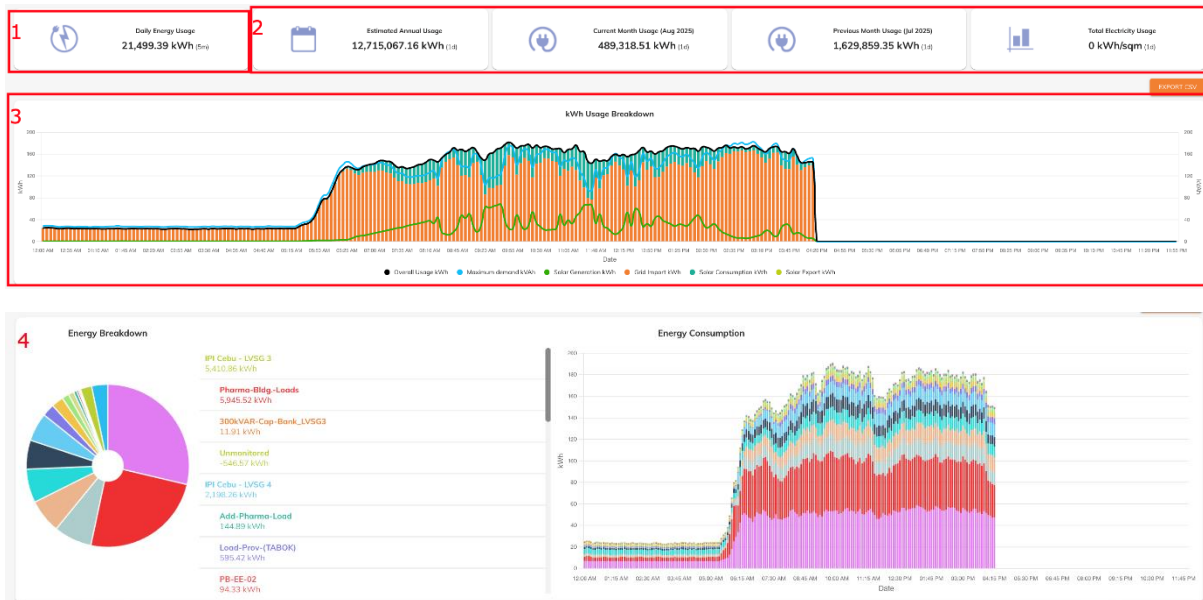
This tab focuses on the financial aspects of your power data

cost breakdown reflects the data based on the month of current applied date range. (e.g. If current date selected is April 30, the cost breakdown shows the data for the whole month of April)

3. Monthly Expenditure – Cost Tracking – This shows how overall cost accumulates day by day from the beginning to the end of the month
4. Bill Breakdown – This shows the daily cost distribution per load, per main source or per monitored location depending on the current selected filter.
5. Energy Billing Period Forecast – This shows a breakdown of the estimated costs for the current or forecasted billing period, showing how the total cost is distributed across different billing elements. The billing element is based on the financial config summary setup per monitored location.

- **Operational Summary**

This tab provides a comprehensive overview of energy consumption patterns and usage metrics. It shows how and when energy is being used across all monitored locations and sources.



1. Energy Usage - This shows the total usage based on selected date from the date range (the title updates depending on the range selected – Day, Week (Weekly Energy Usage), Month (Monthly Energy Usage))
2. Usage Summary Card
 - 2a. Estimated Annual Usage– This shows the forecast annual usage based on previous usage records.
 - 2b. Current Month Usage– This shows the current month total usage
 - 2c. Previous Month Usage- This shows the previous month total usage
 - 2d. Total Electricity Usage – This shows the consumption per SQM of all selected location
3. kWh Usage Breakdown – This shows the usage breakdown based on the selected date range & selected granularity. The chart contains the following data:

Grid Import – Total amount of electricity that has been imported from the main power grid

Maximum Demand

Solar Generation – Total amount of solar power generated

Solar Consumption – Total amount of solar power consumed

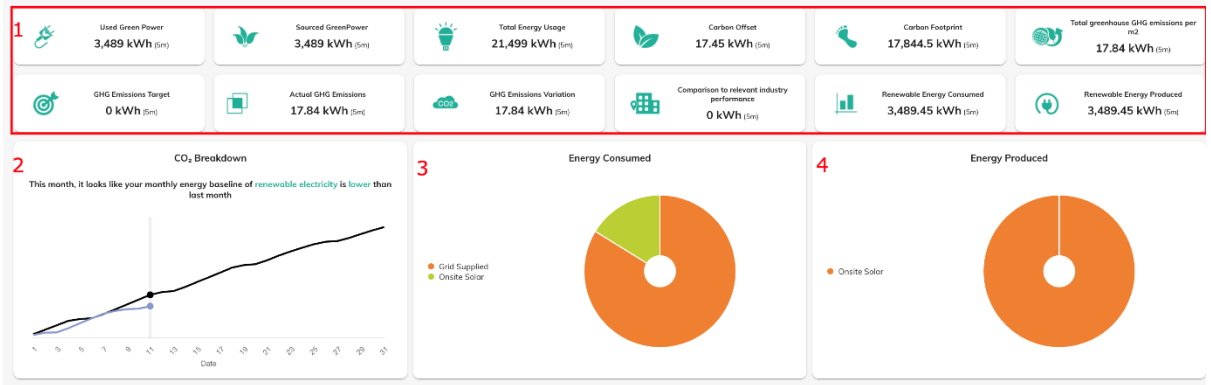
Solar Export – Total amount of excess from solar power

Overall Usage – Total amount of energy consumed across all sources

4. Energy Breakdown & consumption – This shows the usage breakdown based on the selected date range & selected granularity. It shows the usage distribution per load, per main source or per monitored location depending on the current selected filter.

- Sustainability Summary

This dedicated tab focuses on providing insights into the environmental impact of energy consumption.



1. Summary of sustainability
2. CO₂ Breakdown – This provides a direct comparison of estimated carbon emissions for the current month to date versus the total carbon emissions for the entire previous month.
3. Energy Consumed - This provides the proportion of total energy consumption that comes from different power sources during the currently selected date range
4. Energy Produced – This provides the proportion of total energy produced that comes from different renewable power sources during the selected date range.

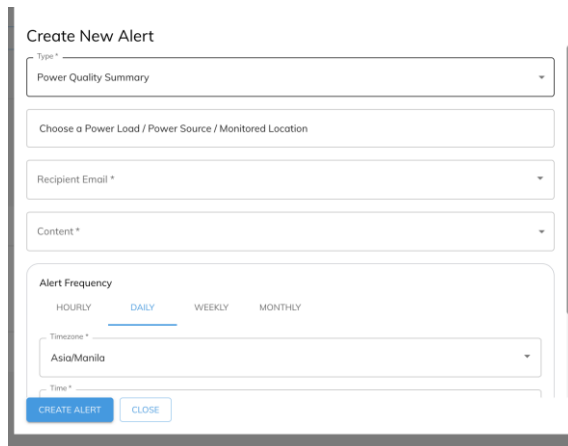
- Report Management – Alert Management

This tab provides user capability to setup alerts based on set criteria or send a power quality report based on set frequency and parameters.

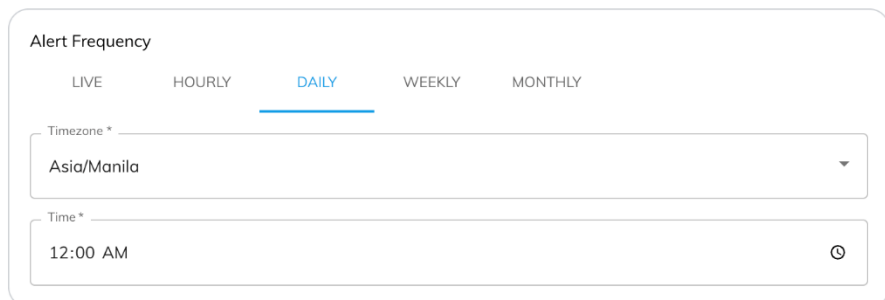
Alert Type	Frequency	Monitored Devices	Recipients	Status
Threshold Alerts	Instant	All Main Power	test@email.com	Enabled

Rows per page: 50 | 1-1 of 1

1. Create Alert - allows user to create new alert. Creation of alert consists of the following fields:



- a. Type – There are 3 types of alerts a user can select:
 1. Power Quality Summary – send power quality data based on given frequency
 2. Events – send alerts whenever an event is triggered
 3. Threshold Alerts – send alerts whenever a given parameter has exceeded or fallen below the set threshold
- b. Choose Power Load/Power Source/Monitored Location – select which devices/metering points to monitor.
- c. Recipient Email – Email where the alerts will be sent. User can set multiple recipients. A user can select from the given list of partner & portfolio admin users or input a valid email address.
- d. Content – The format type of the content. Currently only CSV is the option.
- e. Alert Frequency – For Power Quality Summary & Events – allow user to set the frequency of alert notifications.
 Note: For Events, the user has an option to set the frequency to Live to allows user to receive the alert in real-time.



- f. **Threshold Alerts** – If the user selects Threshold Alerts, the user can configure the threshold
- Set Threshold Alert – sends alert if the criteria's value exceeded the given threshold alert value
 - Set Reduction Alert – sends alert if the criteria's value fallen below the given reduction alert

Threshold Alerts

Threshold Criteria *

Demand (kVA) Active Power (kW) Voltage (V) Current (A) Power Factor

Set Threshold Alert * Set Reduction Alert *

Limit Email Alerts per Hour *

- g. **Power Quality Content** – If the user selects Power Quality Summary, the user can select which power quality data to be included on the alert.

Timezone *

Active Power (kW)

Voltage (V)

Reactive Power (kVAR)

Current (A)

Demand (kVA)

Power Factor

h. Event Triggers – If the user selects Events, the user can select which events the alert will trigger

- OVERLOAD EVENT LOGGING
- OVER VOLTAGE EVENT LOGGING
- UNDER VOLTAGE EVENT LOGGING
- VOLTAGE SWELL EVENT LOGGING
- VOLTAGE SAG EVENT LOGGING
- UNDER POWER FACTOR EVENT LOGGING
- OVER FREQUENCY EVENT LOGGING
- UNDER FREQUENCY EVENT LOGGING
- NO CURRENT READING
- FLICKER
- OVERCURRENT EVENT LOGGING
- POWER OUTAGE
- TRUE POWER OUTAGE

2. Alert List – This contains the list of alerts that are created. The user can enable or disable the alert from sending an email by toggling the enabled button on status column. They can also update the alert details like the recipients and alert frequency by clicking the **UPDATE REPORT**.

Alert Type	Frequency	Monitored Devices	Recipients	Status	
Threshold Alerts	Instant	All Main Power	test@email.com	<input checked="" type="checkbox"/> Enabled	<input type="button" value="UPDATE REPORT"/> <input type="button" value="DELETE REPORT"/>


Rows per page: 50 ▾ 1-1 of 1 < >

- Report Management – DOE Report Forms

COMMERCIAL VIEW ENGINEERING VIEW LIVE SUMMARY FINANCIAL SUMMARY OPERATIONAL SUMMARY SUSTAINABILITY SUMMARY **REPORT MANAGEMENT**

Select Form
 EEC Form 4A - AEUR for Commercial Designated Establishments **EXPORT PDF**

Form No.	EEC Form 4A
Form Title	AEUR for Commercial Designated Establishments


Republic of the Philippines
DEPARTMENT OF ENERGY
 Energy Utilization Management Bureau

EEC Form 4A
 ANNUAL ENERGY UTILIZATION REPORT (AEUR)
 COMMERCIAL DESIGNATED ESTABLISHMENTS
 FY 2024

Name of Establishment	3				Commercial Utility	
Address	[Green Input Field]					
Type of Business	[Green Input Field]					
Inclusive Dates of Submission	Jan 2024		to		Dec 2024	
Total Number of Employees	[Green Input Field]		No. of Male		No. of Female	

PART A
 ENERGY CONSUMPTION IN BUSINESS ACTIVITY AREA

No.	Fuel/Energy Type	Unit	Activity Area(SM)						
			Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
1	Electricity	KWh	0.00						

PART B
 ACTIVITY AREA

No.	Particulars	Unit	Activity Area(SM)						

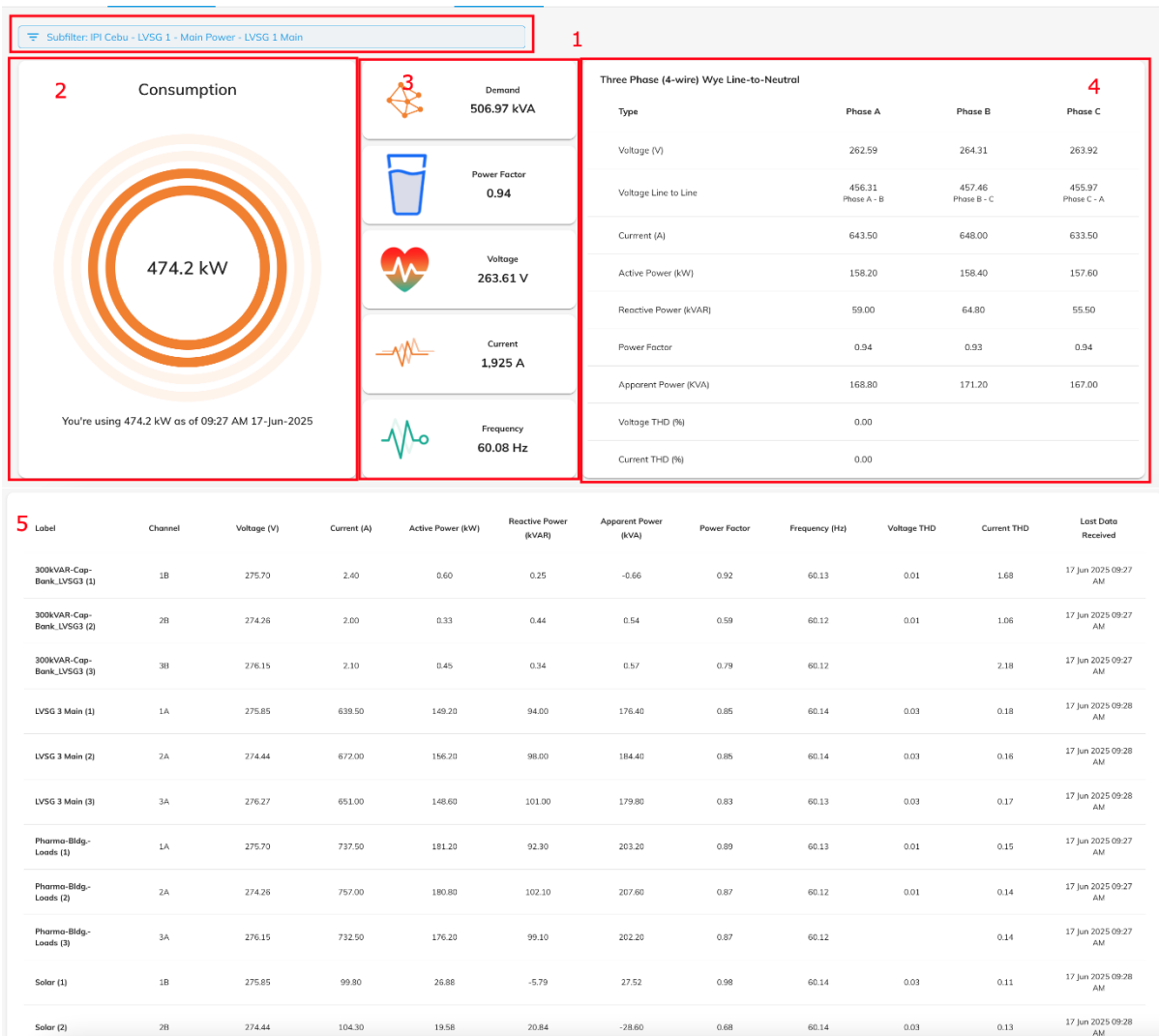
1. Select 3 different forms.
2. Generate export report as PDF file.
3. Green input field is editable.

b. Engineering View

This view offers a more detailed and technical perspective on the data, catering to the needs of engineers and technical users and is further divided into 5 tabs: Live Summary, Loading Profile, PQ Analysis, Harmonics Analysis and Voltage Summary.

- **Live Summary**

This tab offers real-time view based on selected filter.



1. Subfilter – If multiple devices are selected on the current filter, subfilter is enabled to select a specific device live data.
2. Live consumption - shows the overall live consumption based on selected filter.
3. Live card – shows the live Demand, Power Factor, Voltage, Current & Frequency. Note: Voltage & Current are unavailable if there are 2 or more devices selected.
4. Live Table – shows the live data by individual phase. Note: Table is unavailable if there are 2 or more devices selected.

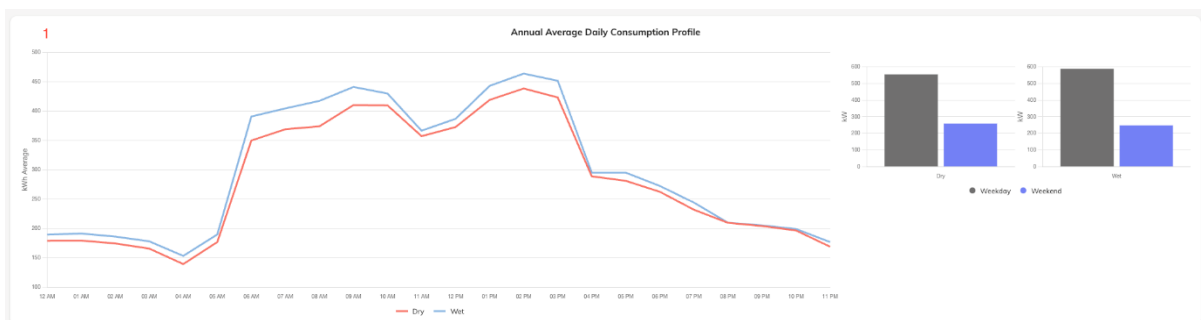
Three Phase (3-wire) Delta Clockwise			
Type <input type="radio"/> Switch to Wye	Phase A	Phase B	Phase C
Voltage Line to Line	3253.14 Phase A - B	3258.75 Phase B - C	3247.50 Phase C - A
Current (A)	169.25	173.50	342.60
Active Power (kW)	549.12	315.84	
Reactive Power (kVAR)	-17.82	469.44	
Power Factor	1.00	0.56	
Apparent Power (KVA)	550.08	565.44	
Voltage THD (%)	2.22	1.70	39.00
Current THD (%)	4.33	2.44	56.56

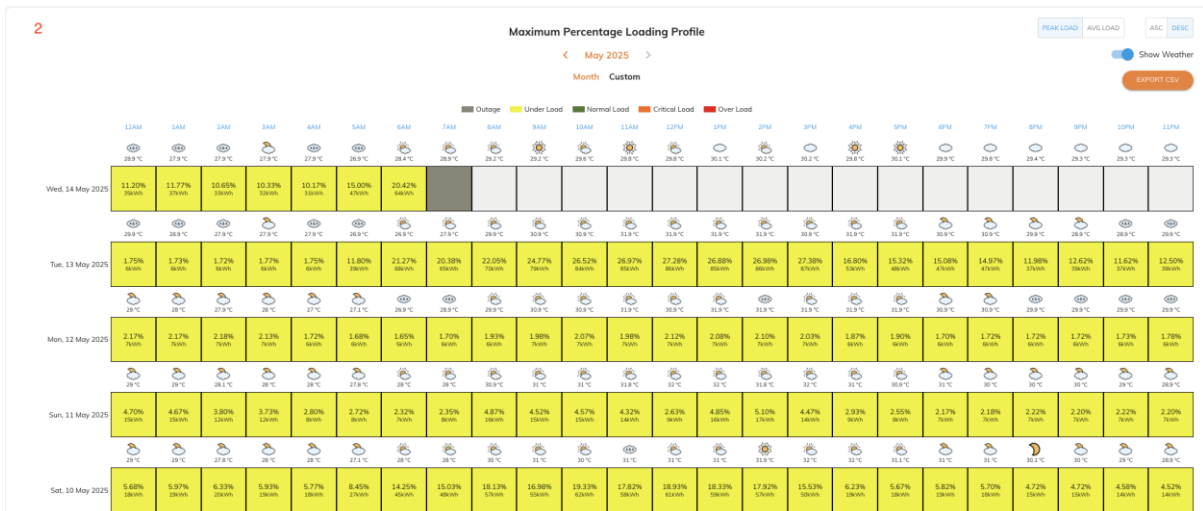
Three Phase (3-wire) Delta Clockwise			
Type <input checked="" type="radio"/> Switch to Delta	Phase A	Phase B	Phase C
Voltage (V)	1871.70	1884.69	1878.19
Current (A)	169.25	173.50	176.76
Active Power (kW)	279.19	293.59	292.19
Reactive Power (kVAR)	149.69	143.98	157.60
Apparent Power (KVA)	316.79	326.99	331.98

Note: For Devices configured as Three Phase (3-wire) Delta Clockwise and Three Phase (3-wire) Delta Counter Clockwise, user can switch the live table view from delta view to wye view.

5. Live Load Table – shows the last received data for each device channel of selected filter.

- Loading Profile





1. Annual Average Daily Consumption Profile

This provides an overview of average energy consumption patterns throughout a typical day, broken down by both hour and season.

2. Maximum Percentage Loading Profile

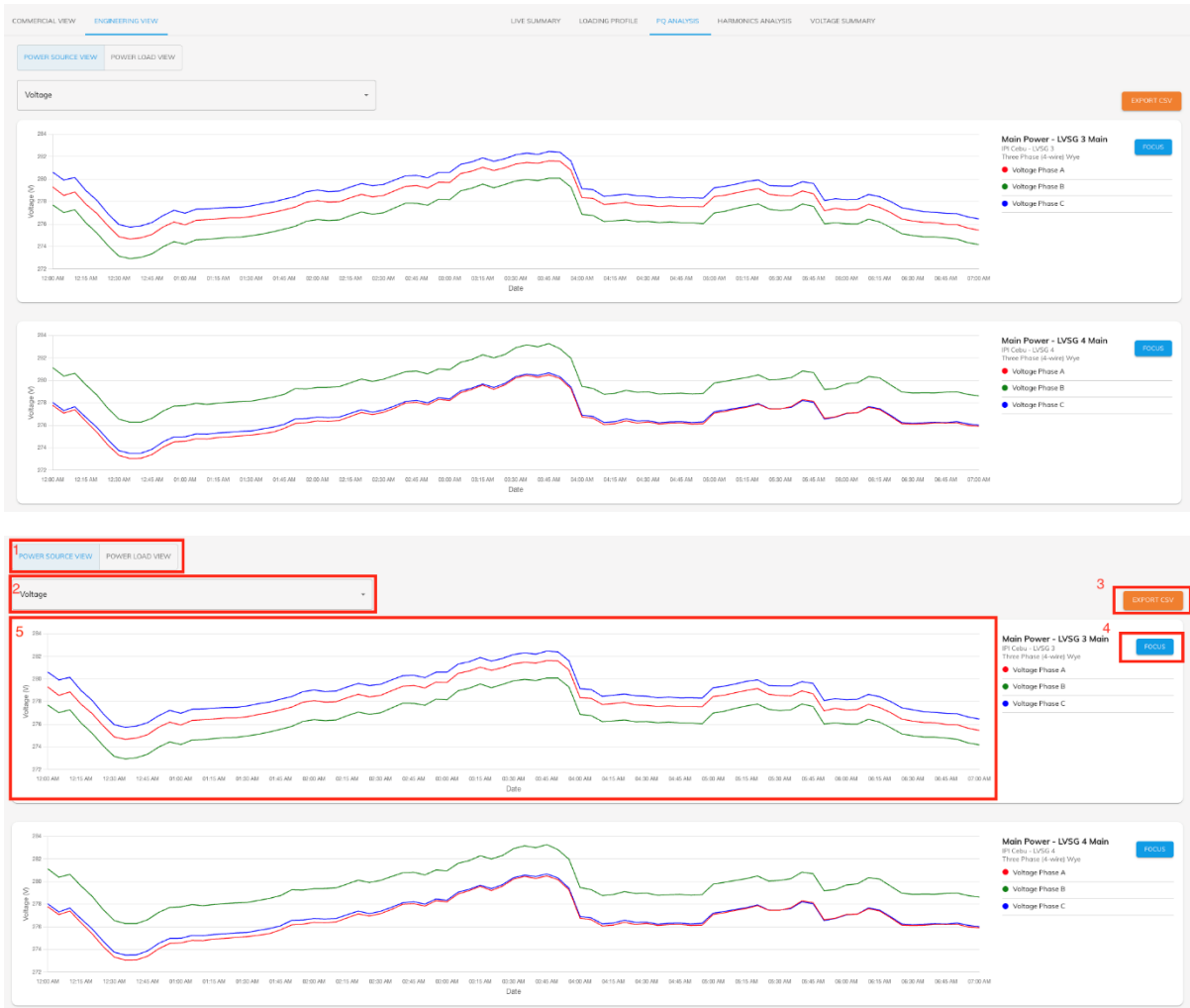
This provides insights into system's load characteristics by displaying both the peak and average percentage loading for each hour of the day. This helps to understand how close the energy consumption gets to system's capacity and the typical load levels throughout the day.

By clicking the "Show Weather" option, you can view the historical weather information on an hourly basis, potentially correlating them with the energy consumption.

- **PQ Analysis**

This tab provides in-depth insights into the electrical performance of devices and systems. It presents critical and non-critical data related to the quality of the power they are receiving and

utilizing, allowing to assess the operational health and efficiency.

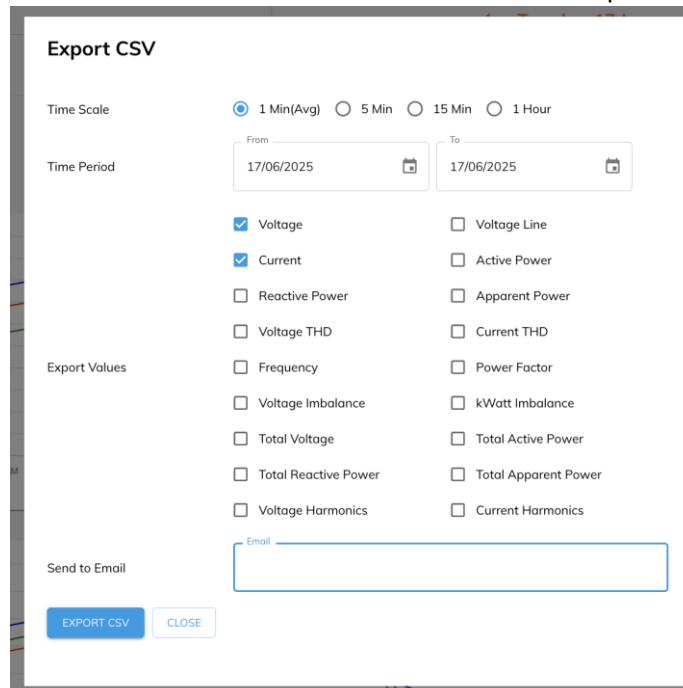


1. Switch Tab between power source and power load view
2. Dropdown selection between parameters like voltage, current, etc

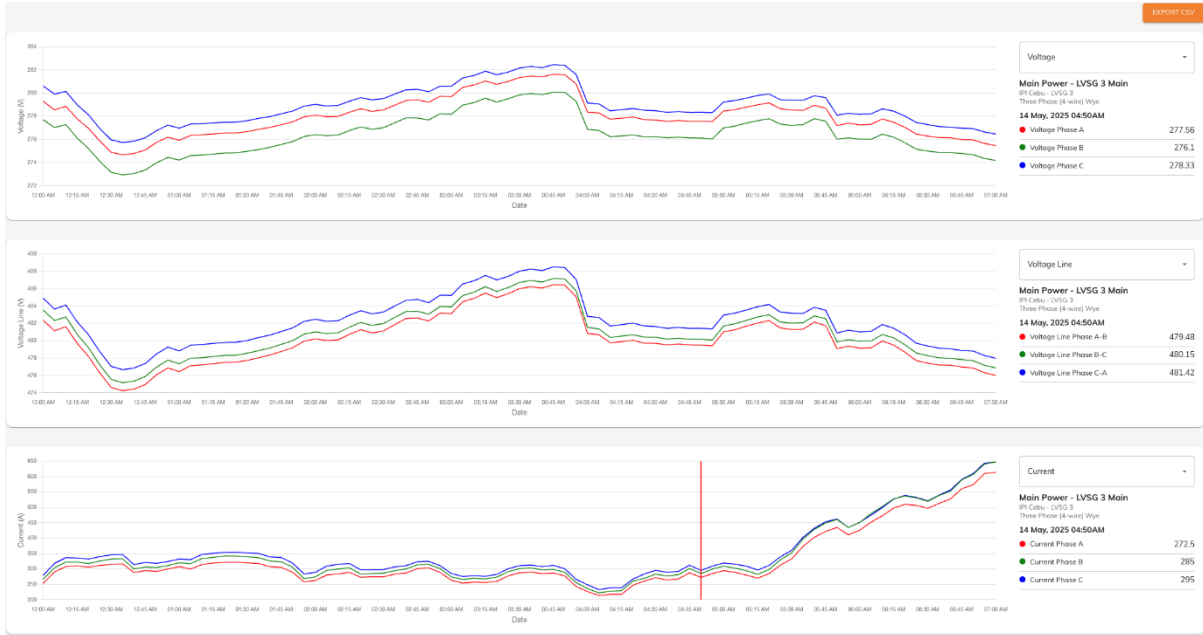


3. Export graph data into CSV format based on selected parameter

If viewing a single power source/power load, user can customize the granularity, date range and power quality data. This allows the user to export data outside of the date limit. The data will be sent to the email provided in the form.



4. Focus one power source / power load to show details

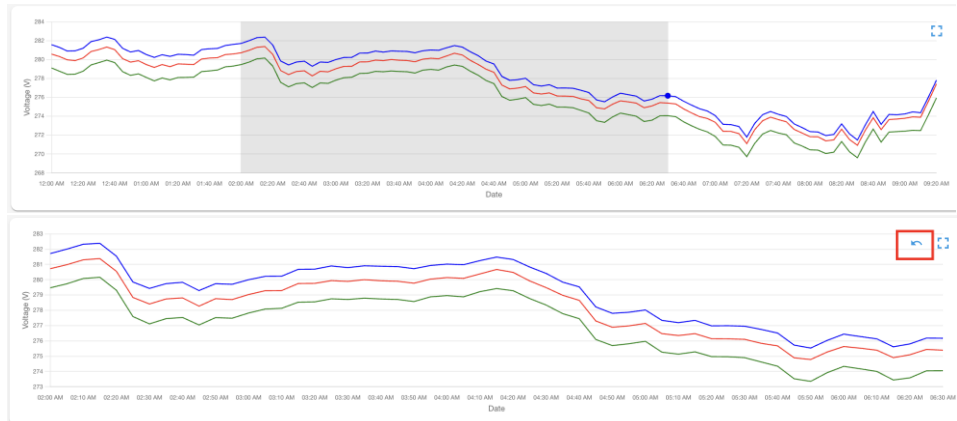


Graph for focus one power source / power load

5. Graph – It shows the historical data based on selected parameter. Data displayed is based on selected date range & granularity.



Clicking the fullscreen icon, sets the graphs into full screen



Zooming In on Data (Drag to Select Range) - To focus on a specific period, user can click and drag mouse horizontally across the chart. The chart will update to display only the data within the selected date range.

By clicking the Return Icon will reset the chart to original date range.

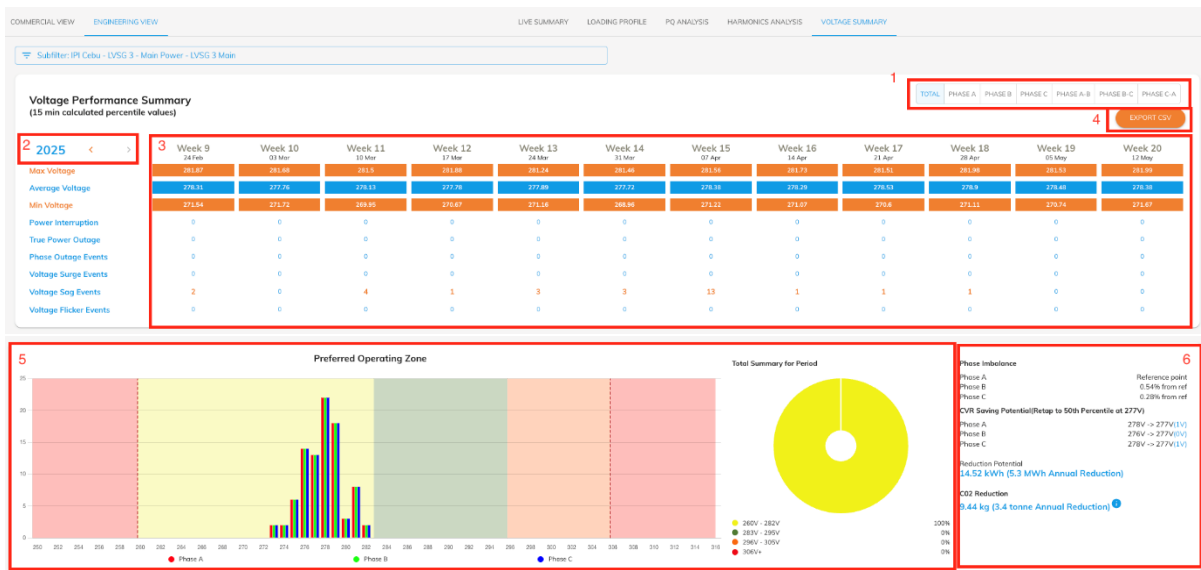
- **Harmonics Analysis**

This tab provides a detailed analysis of **harmonics** present in electrical system's voltage and current waveforms.



1. Active and reactive power are balanced across phases, showing stable import consumption with proper 120° phase separation and increasing trend.
2. FFT analysis for both voltage and current

Voltage Summary



1. Switch toggle between each phase
2. Year selection
3. Weekly voltage summary data
4. Export voltage data into CSV format
5. Voltage value graph for each phase
6. Voltage Optimization and Energy Saving Potential Summary

Master configuration

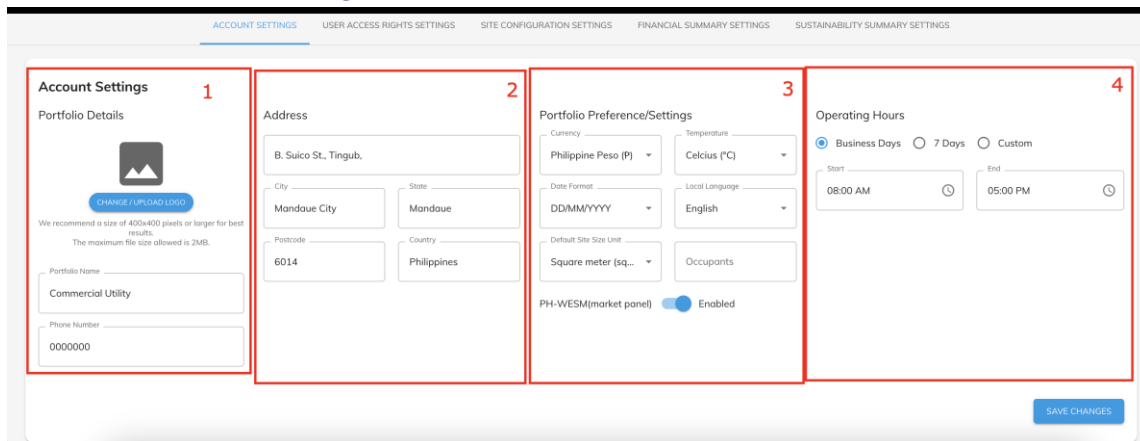
The "Master Configuration" section serves as the central hub for managing all aspects of Portfolio. Here, administrative users can define and adjust the fundamental settings that govern how the portfolio operates and structured.

1. Portfolio Selection Header



2. Details Component

a. Account Settings



1. Portfolio details settings - including logo, name and phone number
2. Portfolio address settings – including street address, city, state, postcode and country
3. Portfolio preference settings – including currency, temperature, etc
4. Operating hours settings – including business hours, 7 days and custom

Operating Hours

Business Days
 7 Days
 Custom

Day	Start	End
<input type="checkbox"/> Sunday	08:00 AM	05:00 PM
<input type="checkbox"/> Monday	08:00 AM	05:00 PM
<input type="checkbox"/> Tuesday	08:00 AM	05:00 PM
<input type="checkbox"/> Wednesday	08:00 AM	05:00 PM
<input type="checkbox"/> Thursday	08:00 AM	05:00 PM
<input type="checkbox"/> Friday	08:00 AM	05:00 PM
<input type="checkbox"/> Saturday	08:00 AM	05:00 PM

b. User access rights settings

ACCOUNT SETTINGS | **USER ACCESS RIGHTS SETTINGS** | SITE CONFIGURATION SETTINGS | FINANCIAL SUMMARY SETTINGS | SUSTAINABILITY SUMMARY SETTINGS

User Access Rights Settings

Portfolio Partner Admin | Portfolio Admin | Portfolio Installer | Portfolio User

Manage Role Access

Display Tabs

View on Commercial

- Live Summary
- Operational Summary
- Financial Summary
- Sustainability Summary

View on Engineering

- Live Summary
- PQ Analysis
- Loading Profile
- Harmonics Analysis

Master Configuration

- Master Configuration
- Site Management
- User Management

[SAVE PORTFOLIO PARTNER ADMIN CHANGES](#)

User Management

[ADD NEW USER](#)

Search Users User Filter: All User

Name	Role	Phone	Email	Registered Date	First Login	Last App Login	Last Web Login	
EM v3 0 FVTT	Portfolio Partner Admin	09177160669	Edmund.Patrick@edgeelectronics.com	10:35 AM 28-Feb-2020	04:36 PM 06-Mar-2020	---	06:53 AM 14-May-2025	DEACTIVATE
Dennis Alzona	Portfolio Partner Admin	09151030426	Dennis.Alzona@edgeelectronics.com	09:22 PM 30-Mar-2020	08:14 PM 01-Apr-2020	---	09:46 AM 13-May-2025	DEACTIVATE
Ann Dante Mary Planco	Portfolio Partner Admin	09270339119	ann.planco@edgeelectronics.com	09:51 AM 04-Nov-2021	10:07 AM 04-Nov-2021	---	08:58 AM 13-May-2025	DEACTIVATE
sofermando edgecon	Portfolio Partner Admin	0411111111	sofernonilo@edgecon.com	12:09 PM 02-Jun-2022	09:36 AM 11-Oct-2022	---	01:40 PM 09-Jan-2024	DEACTIVATE
Jasper de Jesus	Portfolio Partner Admin	09165373065	icj.louis@jasper@edgecon.com	12:07 PM 11-Oct-2019	11:33 AM 06-Nov-2019	07:39 AM 01-Aug-2024	10:11 AM 07-May-2025	DEACTIVATE
Daniel Kang	Portfolio Partner Admin	0121231233	daniel.kang+100@edgezero.co	08:41 AM 14-Jun-2023	---	---	---	DEACTIVATE
Michael Wu	Portfolio Partner Admin	0451699710	wuanyuan100@gmail.com	02:26 PM 02-Apr-2025	02:32 PM 02-Apr-2025	---	01:53 PM 13-May-2025	DEACTIVATE

Rows per page: 10 | 1-7 of 7

1. Control which tabs or pages are visible based on the logged-in user's role.
2. Each user role has a predefined set of permissions that determine which UI sections (tabs/pages) they can access or view.
3. Add user

Add New User

Role:

Email Address:

First Name: Last Name:

Phone:

[ADD USER](#) [CLOSE](#)

Add New User

Role:

- Portfolio Partner Admin
- Portfolio Admin
- Portfolio Installer
- Portfolio User

Phone:

[ADD USER](#) [CLOSE](#)

4. Search and filter user
5. Update user

Update Portfolio Partner Admin

Role	
Portfolio Partner Admin	
Email Address	
Edmund.Patricio@edgeelectronics.com	
First Name	Last Name
EM v3.0	FVT1
Phone	
09177160669	

UPDATE PORTFOLIO PARTNER ADMIN

CLOSE

6. Delete user

Delete EM v3.0 FVT1 (Portfolio Partner Admin)

You are about to delete the following user:

- Name: EM v3.0 FVT1
- Role: Portfolio Partner Admin
- Email: Edmund.Patricio@edgeelectronics.com

This action cannot be reversed. The user will lose all access to the portfolio immediately.

CANCEL

DELETE USER

7. Deactivate user

Deactivate EM v3.0 FVT1 (Portfolio Partner Admin)

You are about to deactivate the following user:

- Name: EM v3.0 FVT1
- Role: Portfolio Partner Admin
- Email: Edmund.Patricio@edgeelectronics.com

This action will prevent the user from accessing the portfolio until they are reactivated.

CANCEL

DEACTIVATE USER

8. Pagination controls

c. Site configuration settings

UI Menu View 1

- Power Sources ▾
- Power Loads ▾
- Monitored Locations ▾

Site Management 2


- ▾ IPI Cebu - LVSG 3 ✎
- ▾ IPI Cebu - LVSG 4 ✎
- ▾ IPI Cebu - LVSG 1 ✎
- ▾ IPI Cebu - LVSG 2 ✎

^ IPI Cebu - LVSG 3
✎


ADD SWITCHBOARD

3 ^ EE40400142345028 🔍 🏠 ☰

Three Phase (4-wire) Wye Line-to-Neutral Last Data Received: 11 Aug 2025 04:34 PM

Label	Device Channel	Usage (kWh)	Voltage (V)	Polarity	CT Rating	
	Grid - LVSG 3 Main	1A	106.40 kWh	274.36 V	Positive	3000
	Grid - LVSG 3 Main	2A	111.20 kWh	273.03 V	Positive	3000
	Grid - LVSG 3 Main	3A	114.40 kWh	275.02 V	Positive	3000

Last Data Received: 11 Aug 2025 04:34 PM

Label	Device Channel	Usage (kWh)	Voltage (V)	Polarity	CT Rating	
	Solar	1B	4.86 kWh	274.36 V	Positive	600
	Solar	2B	-6.95 kWh	273.03 V	Negative	600
	Solar	3B	2.94 kWh	275.02 V	Negative	600

1. UI Menu View – This provides a visual representation of how the monitored locations are organized within the portfolio for filtering purposes. This structure is directly derived from the way the devices have been configured in the system.

2. Site Listing – This provides list of all the sites/monitored location currently defined within the portfolio. By clicking the dropdown beside the site label, it will show all devices installed on the site.
3. Device Channels – By clicking the device dropdown, it will show the last received data of the device, and the labels set for each channel.
4. Update site – By clicking the pencil icon, allows user to manage the details of the site. On Site Management, you can manage the site’s own operating hours, site size, occupants, address and start of the billing month.
5. Move Device to Different site – It allows the user to transfer a device to a different site within the same portfolio. This is used for correcting wrong installation, if the device is installed on a wrong site.

Power Sources	^
All Main Power	
All Solar Power	
Power Loads	^
All 300kVAR-Cap-Bank_LVSG (4)	
All Add-Pharma-Load (1)	
All Casino-Load (1)	
All Copra-Bodega-Bldg (1)	
All EE-Rooms-Load (1)	
All Finished-Product (1)	
All Load-Prov-(TABOK) (1)	
All PB-EE (1)	
All Pharma-Bldg-Loads (1)	
All PHARMA-BUILDING-LOADS (1)	
All Raw-Materials-Bldg-Loads (1)	
All Soapery-Bldg-Loads (1)	
All Spare (2)	
Monitored Locations	^
IPI Cebu - LVSG 1	^
Main Power	^
Solar	^
Power Loads	^
IPI Cebu - LVSG 2	^
IPI Cebu - LVSG 3	^
IPI Cebu - LVSG 4	^

Manage Site

Site Label

Site Size (SQM)

Occupants

Operating Hours

Business Days
 7 Days
 Custom

Start

End

Billing Start Day of Month

Load Type

B.Suico, Tingub Mandaue City, 6014 Cebu, Philippines

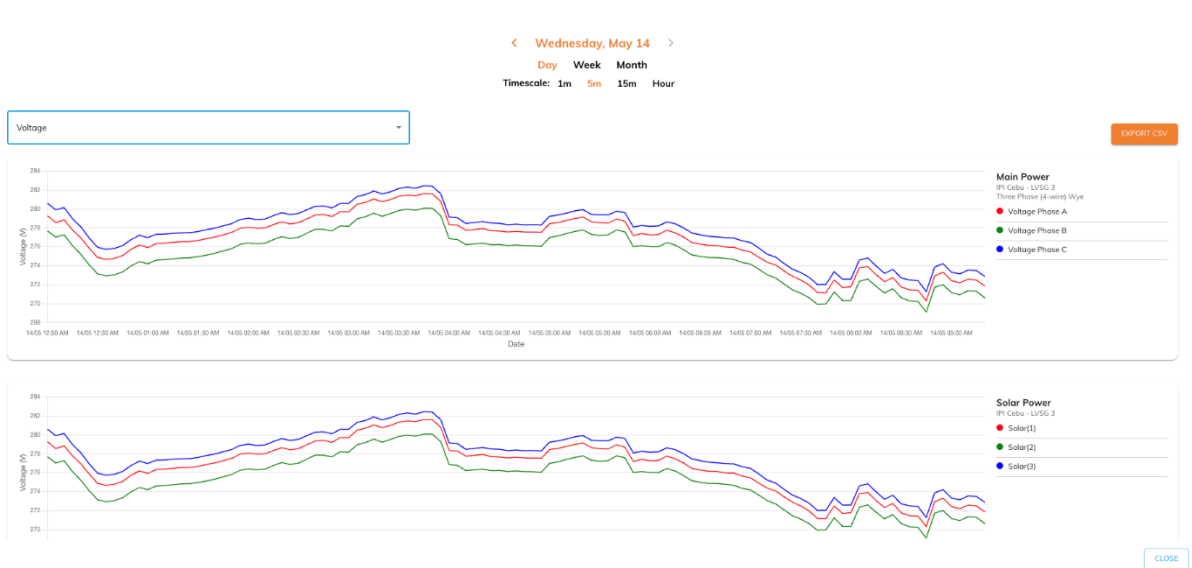
Update Device's Site

Select Site

IPI Cebu - LVSG 3

MOVE DEVICE CLOSE

- Device Power Quality Analysis – It allows the user to directly view the historical power quality of the device similar with Power Quality Analysis Tab on Portfolio Details.



- Update device channel – It allow the user to configure the device channel as well as update the device circuit config, channel's polarity, PT Ratio & CT Rating.

Update Label

Enable PT Ratio

Label	Usage (kWh)	Voltage (V)	Polarity	Power Transformer Rating
Circuit Config: Three Phase (3-wire) Delta with LineC Earthed				
Label: Main Control	21.02 kWh	237.50 V	Polarity: Positive	Primary: 480 Secondary: 240
Secondary Label				
Label: Main Control	7.75 kWh	242.00 V	Polarity: Positive	Primary: 480 Secondary: 240
Secondary Label				
Label: Not in use	-0.02 kWh	1.17 V	Polarity: Positive	Primary: 480 Secondary: 240
Secondary Label				

UPDATE CLOSE

Product Version: v 1.FV74 Current Version: v 04.03.0000 Latest Version: v 03.06.0000

Label	Usage (kWh)	Voltage (V)
<div style="border: 1px solid #ccc; padding: 5px;"> <p>Circuit Config</p> <p>Three Phase (3-wire) Delta with LineC Earthed</p> </div>		
<ul style="list-style-type: none"> Single Phase (2-wire) Single Phase (3-wire) Line-to-Earth Single Phase (3-wire) Line-to-Line <li style="background-color: #e0e0e0;">Three Phase (3-wire) Delta with LineC Earthed Three Phase (3-wire) Delta Clockwise Three Phase (3-wire) Delta Counter Clockwise Three Phase (4-wire) Wye Line-to-Neutral Three Phase (3-Wire) Delta with Mid Tap Connection on A-B 		

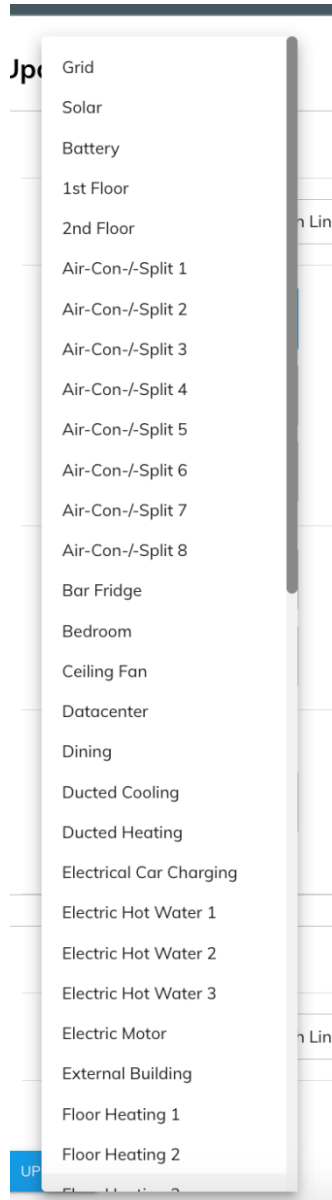
List of Circuit Configuration

Update Label
 Enable PT Ratio

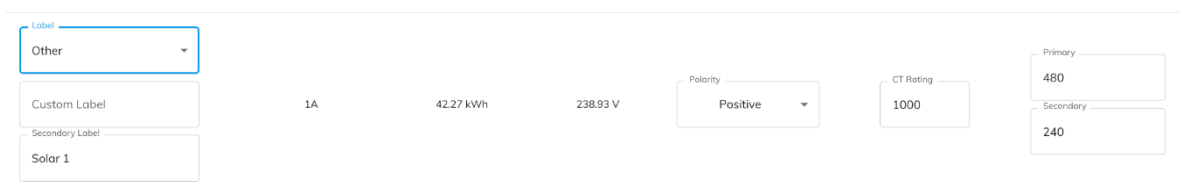
Label	Device Channel	Usage (kWh)	Voltage (V)	Polarity	CT Rating	Power Transformer Rating
<div style="border: 1px solid #ccc; padding: 5px;"> <p>Circuit Config</p> <p>Three Phase (3-wire) Delta with LineC Earthed</p> </div>						
Label: Solar	1A	42.27 kWh	238.93 V	Polarity: Positive	CT Rating: 1000	Power Transformer Rating: 480 / 240
Label: Solar	2A	36.87 kWh	242.89 V	Polarity: Positive	CT Rating: 1000	Power Transformer Rating: 480 / 239
Label: Not in use	3A	-41.82 kWh	242.85 V	Polarity: Positive	CT Rating: 1000	Power Transformer Rating: 480 / 240
<div style="border: 1px solid #ccc; padding: 5px;"> <p>Circuit Config</p> <p>Three Phase (3-wire) Delta with LineC Earthed</p> </div>						
Label: Not in use	1B	-1.57 kWh	238.93 V	Polarity: Positive	CT Rating: 60	Power Transformer Rating: 3000 / 220
Label: Not in use	1B	-1.27 kWh	242.89 V	Polarity: Positive	CT Rating: 60	Power Transformer Rating: 3000 / 220

UPDATE
CLOSE

For Edge Monitor with 6 channels, user can set a separate circuit configuration for 1A-3A and 1B-3B



User can set the label based on predefined labels.
 Grid, Solar & Battery are used to set a channel as a Power Source,
 Not In Use for unused channels
 and the rest are Power Load



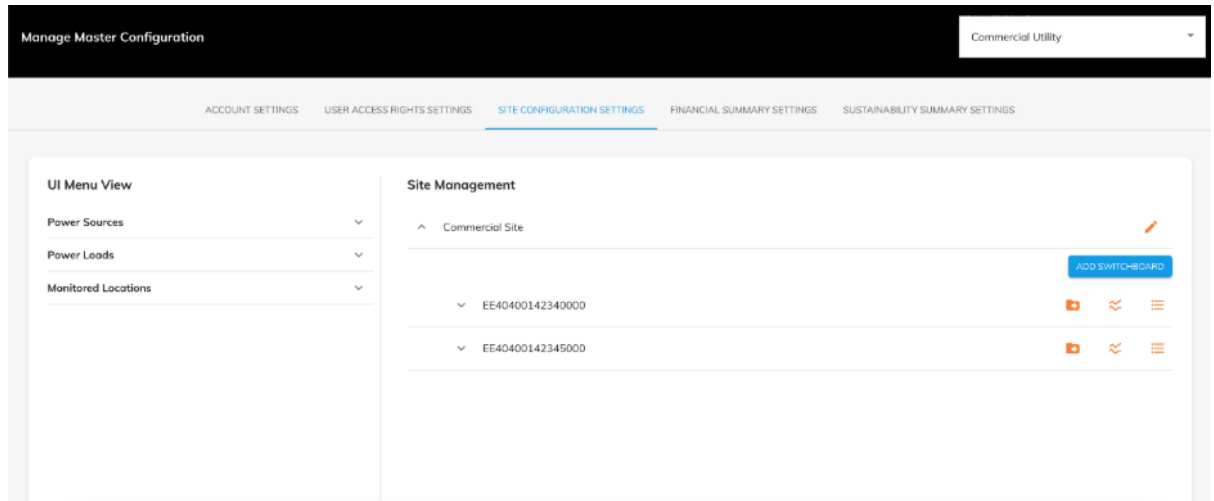
If user want to set a custom label, the user can select **Other** to set the custom label.

To better differentiate between multiple similar power sources at the same site, user can assign a **Secondary Label** to the channel. Make sure that connected channels have similar secondary label.

Switchboard Management

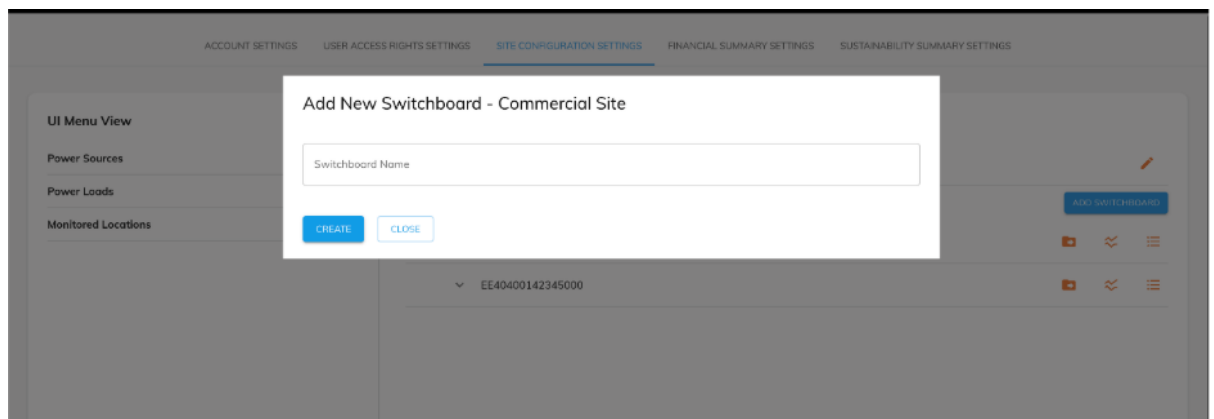
Switchboard Management allows you to group and manage multiple metering points across the site, ensuring the power loads are connected to their designated power sources to ensure reliability on energy usage.

Switchboard Manage can be managed on Master Configuration under Site Configuration Setting Tab



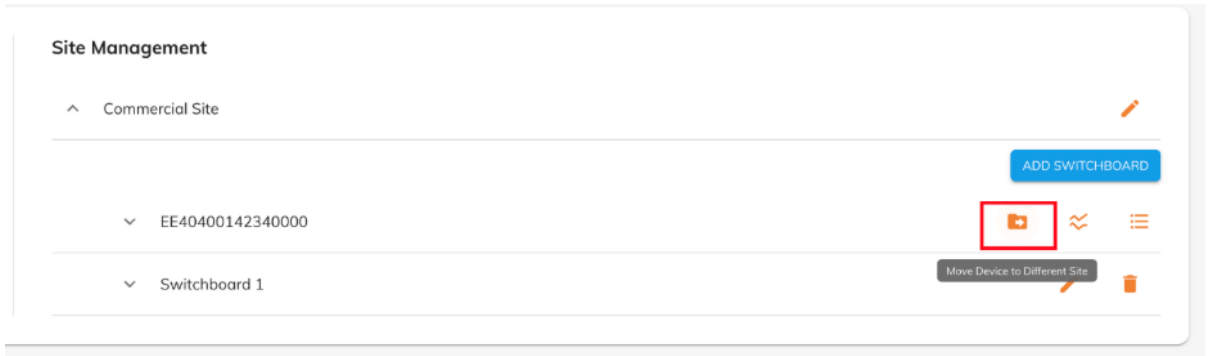
i) CREATING A SWITCHBOARD

To create a Switchboard, click "ADD SWITCHBOARD" button under the site or under another switchboard where you want to create a switchboard. A dialog box will open. In the designated field, enter the Name you wish to give your new switchboard and click CREATE



ii) MOVING DEVICE TO A SWITCHBOARD

After a switchboard is created, you can now move the device to their designated switchboard. On the Device, click the first icon (Move Device)



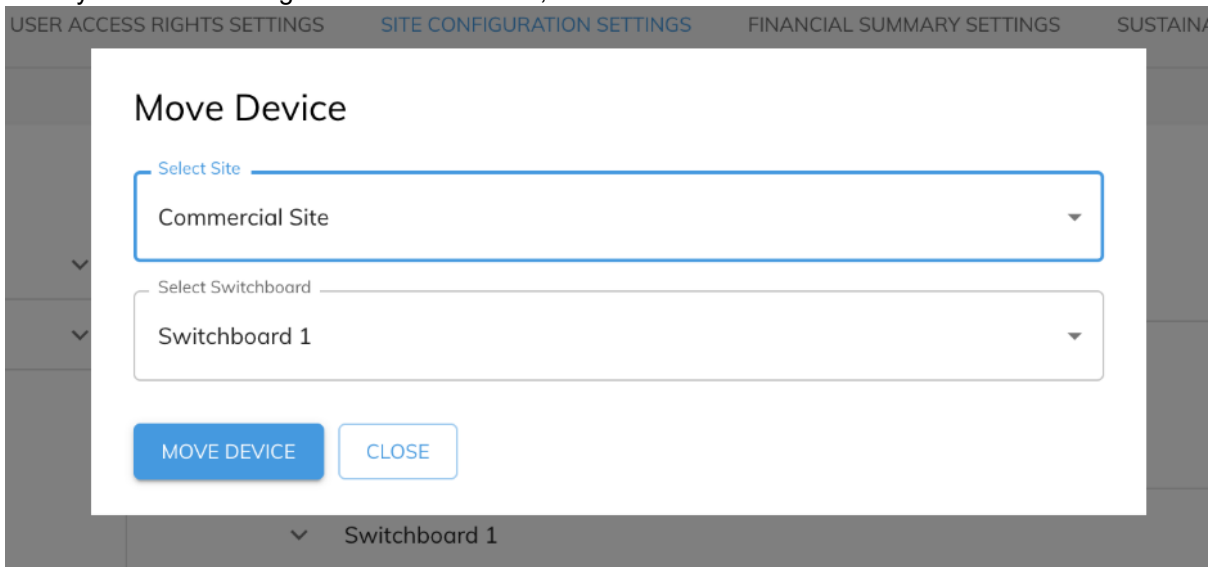
A dialog box will open with two dropdown fields.

Select Site - Choose the site where the target switchboard is located

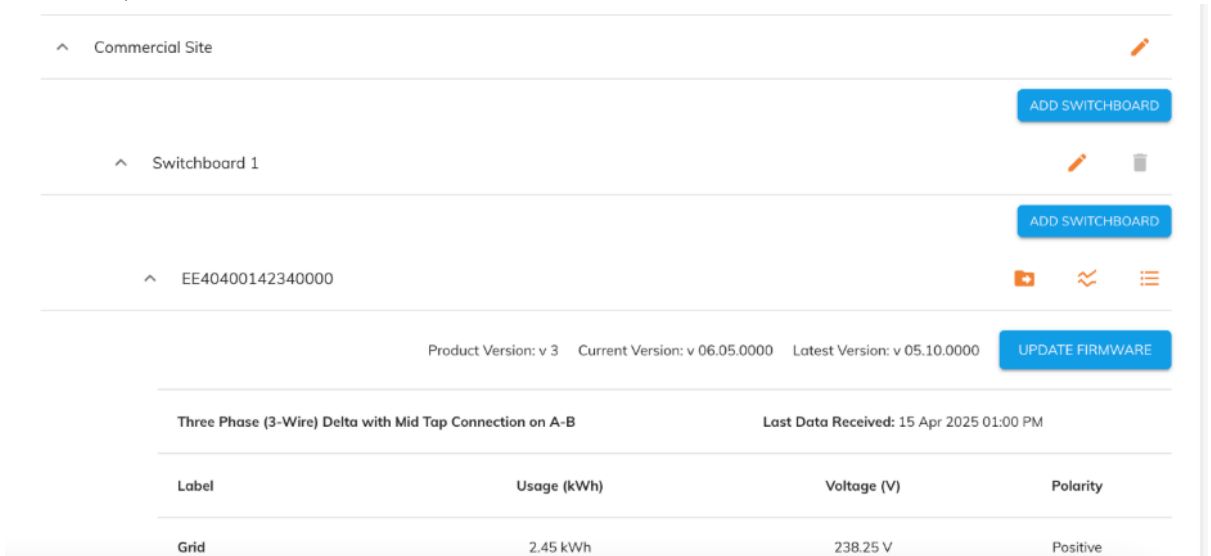
Select Switchboard - After selecting the site, choose the specific switchboard within that site to which you want to move the device.

If a site doesn't have switchboard added yet, Select Switchboard field is not available

Once you select the target site & switchboard, click UPDATE

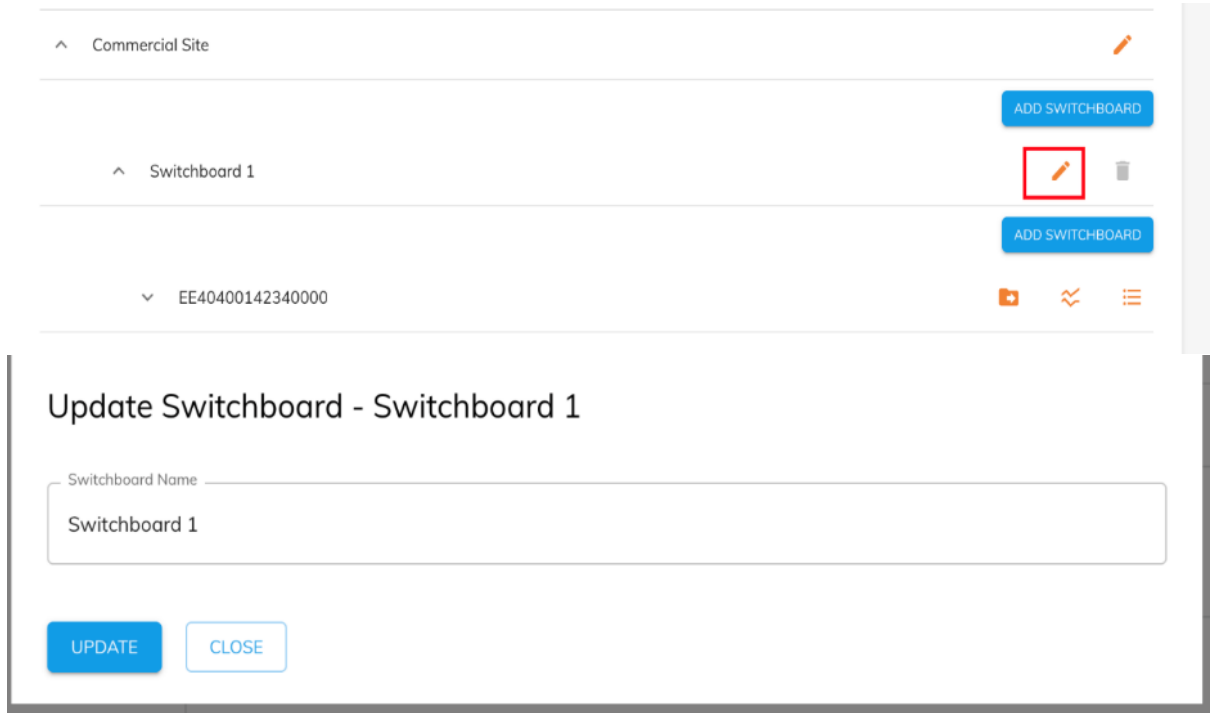


If success, the device will now be located to the selected site & switchboard



iii) UPDATE SWITCHBOARD

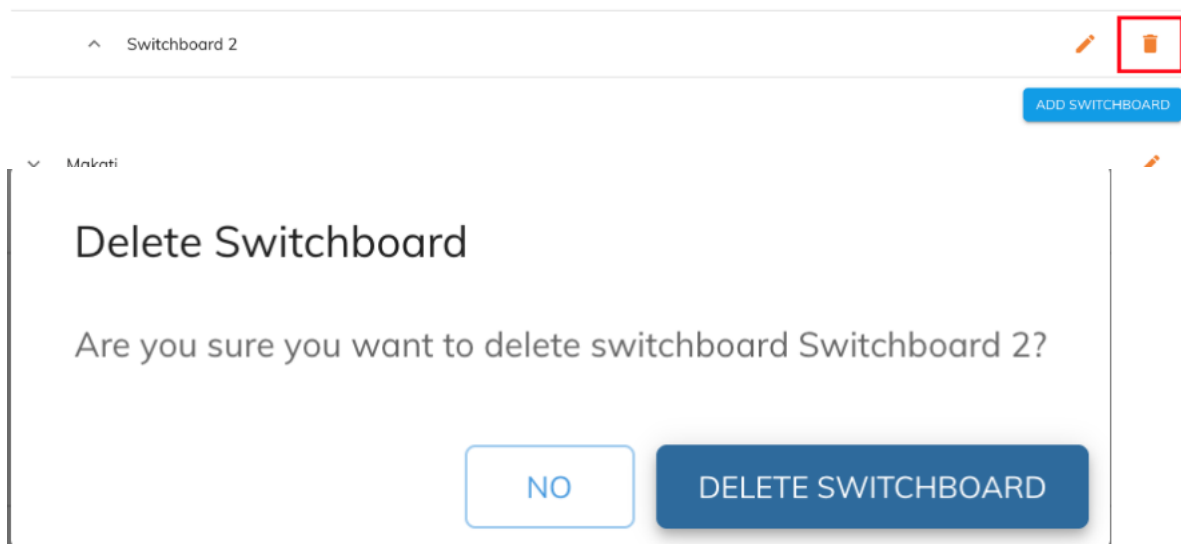
You can update the switchboard name by clicking the pencil icon and enter the new switchboard name.



The screenshot shows a list of switchboards under the heading 'Commercial Site'. The first switchboard is 'Switchboard 1'. To its right, there is a pencil icon (highlighted with a red box) and a trash icon. Below the list, there is a modal window titled 'Update Switchboard - Switchboard 1'. The modal contains a text input field with the current name 'Switchboard 1' and two buttons: 'UPDATE' and 'CLOSE'.

iv) DELETE SWITCHBOARD

You can delete the switchboard by clicking the trash icon which will trigger a confirmation popup to ensure you genuinely wish to proceed with the deletion.

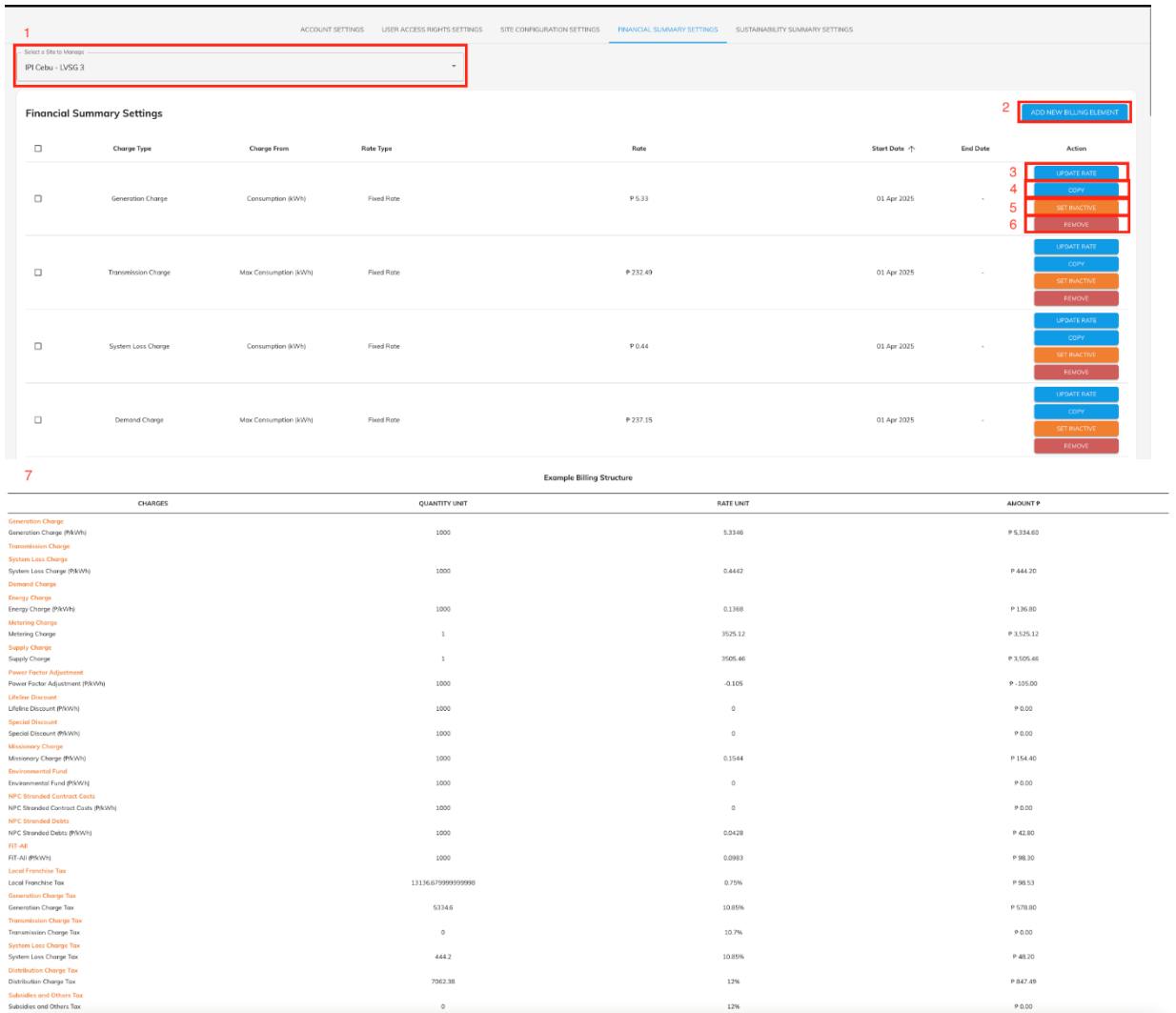


The screenshot shows a list of switchboards under the heading 'Switchboard 2'. The first switchboard is 'Switchboard 2'. To its right, there is a pencil icon and a trash icon (highlighted with a red box). Below the list, there is a modal window titled 'Delete Switchboard'. The modal contains the text 'Are you sure you want to delete switchboard Switchboard 2?' and two buttons: 'NO' and 'DELETE SWITCHBOARD'.

Note: The delete icon is disabled if there are any devices currently managed by that switchboard. Please move all devices to another switchboard before attempting to delete the switchboard.

d. Financial Summary Settings

This tab allows user to **configure how the energy costs are broken down**, mirroring the structure of a typical electrical bill.



1 Select a Site to Monitor
PH Cebu - LVSG 3

2 ADD NEW BILLING ELEMENT

<input type="checkbox"/>	Charge Type	Charge From	Rate Type	Rate	Start Date ↑	End Date	Action
<input type="checkbox"/>	Generation Charge	Consumption (kWh)	Fixed Rate	P 5.33	01 Apr 2025	-	3 UPDATE RATE 4 COPY 5 SET INACTIVE 6 REMOVE
<input type="checkbox"/>	Transmission Charge	Max Consumption (kWh)	Fixed Rate	P 232.49	01 Apr 2025	-	UPDATE RATE COPY SET INACTIVE REMOVE
<input type="checkbox"/>	System Loss Charge	Consumption (kWh)	Fixed Rate	P 0.44	01 Apr 2025	-	UPDATE RATE COPY SET INACTIVE REMOVE
<input type="checkbox"/>	Demand Charge	Max Consumption (kWh)	Fixed Rate	P 237.15	01 Apr 2025	-	UPDATE RATE COPY SET INACTIVE REMOVE

7 Example Billing Structure

CHARGES	QUANTITY UNIT	RATE UNIT	AMOUNT P
Generation Charge			
Generation Charge (kWh)	1000	5.3346	P 5,334.60
Transmission Charge			
Transmission Charge			
System Loss Charge			
System Loss Charge (kWh)	1000	0.4442	P 444.20
Demand Charge			
Energy Charge			
Energy Charge (kWh)	1000	0.1368	P 136.80
Metering Charge			
Metering Charge	1	3525.12	P 3,525.12
Supply Charge			
Supply Charge	1	3505.46	P 3,505.46
Power Factor Adjustment			
Power Factor Adjustment (kWh)	1000	-0.105	P -105.00
Lifeline Discount			
Lifeline Discount (kWh)	1000	0	P 0.00
Special Discount			
Special Discount (kWh)	1000	0	P 0.00
Miscellaneous Charge			
Miscellaneous Charge (kWh)	1000	0.1544	P 154.40
Environmental Fund			
Environmental Fund (kWh)	1000	0	P 0.00
NPC Stranded Contract Costs			
NPC Stranded Contract Costs (kWh)	1000	0	P 0.00
NPC Stranded Debt			
NPC Stranded Debt (kWh)	1000	0.0428	P 42.80
FIT-AB			
FIT-AB (kWh)	1000	0.0983	P 98.30
Local Franchise Tax			
Local Franchise Tax	13136.079999999998	0.75%	P 98.53
Generation Charge Tax			
Generation Charge Tax	5334.6	10.85%	P 578.80
Transmission Charge Tax			
Transmission Charge Tax	0	10.7%	P 0.00
System Loss Charge Tax			
System Loss Charge Tax	444.2	10.85%	P 48.30
Distribution Charge Tax			
Distribution Charge Tax	7062.38	12%	P 847.49
Subsidies and Others Tax			
Subsidies and Others Tax	0	12%	P 0.00

1. Site Selection – each site has its own separate billing structure.

Add New Billing Element

Charge Type Charge Based On Rate Type

Fixed Rate

ADD ITEM

Charge Type	Charge Based On	Rate Type	Rate	Action
No billing elements added yet				

Apply billing from until

ADD BILLING **CLOSE**

2. Add New Billing Element – allows user to create a new billing element. The Billing Element consists of the following fields:

- a. Charge Type – The name of the Billing Element. Selecting Others allows user to define a custom charge type.

Charge Type

- Generation Charge
- Transmission Charge
- System Loss Charge
- Distribution Charge
- Metering Charge
- Power Factor Adjustment
- FIT-All
- Local Franchise Tax
- Others

- b. Charge Based On – where the charge will be based on. User can select from the following:

- Consumption – charge based on overall site’s grid import
- Max Consumption – charge based on the highest hourly site’s grid import
- Demand – charge based on demand
- Solar Export – deduction based on excess solar
- Fixed Charge
- Daily Fixed Charge
- Tax –charges based on overall billing or specific billing element

Charge Rebate – deduction based on fixed rate or based on overall billing

Charge Based On

- Consumption (kWh)
- Max Consumption (kWh)
- Demand (kVA)
- Solar Export (kWh)
- Fixed Charge
- Daily Fixed Charge
- Tax
- Charge Rebate

- c. Rate Type – allows the user to set the type of rate. Except consumption & demand, all other charges can only select Fixed Rate. The user can select from the following rate types:

Fixed Rate – rate is consistent for each unit of energy consumed

Charge Type: Consumption (kWh) Rate Type: Fixed Rate

Rate Type: P J/kWh

Peak/Offpeak Rate – rate varies depending on the time of the day. User can set the range of peak & offpeak hour.

Charge Type: Consumption (kWh) Rate Type: Peak/Offpeak Rate

Peak Start 08:00 AM	Peak End 04:00 PM	Offpeak Start 04:00 PM	Offpeak End 08:00 AM
Rate Type: P	Rate Type: P	Rate Type: P	Rate Type: P
J/kWh	J/kWh	J/kWh	J/kWh

Peak/Shoulder/Offpeak Rate – rate varies depending on the time of the day. User can set the range of peak, shoulder & offpeak hour.

Charge Type: Consumption (kWh) Rate Type: Peak/Shoulder/Offpeak Rate

Peak Start 08:00 AM	Peak End 04:00 PM	Shoulder Start 04:00 PM	Shoulder End 11:00 PM	Offpeak Start 11:00 PM	Offpeak End 08:00 AM
Rate Type: P	Rate Type: P	Rate Type: P	Rate Type: P	Rate Type: P	Rate Type: P
J/kWh	J/kWh	J/kWh	J/kWh	J/kWh	J/kWh

Weekday/Weekend Rate – user can customize the rate by weekday & weekend. User can also set a different rate type for weekday & weekend.

Charge Type: Consumption (kWh) Rate Type: Weekday/Weekend Rate

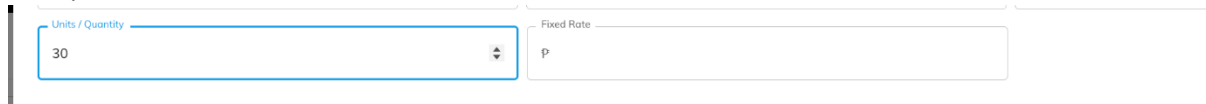
Weekday (Mon-Fri)	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Weekend (Sat-Sun)	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh

Advanced Rate – For more control on the rate, user can set a specific rate type per day.

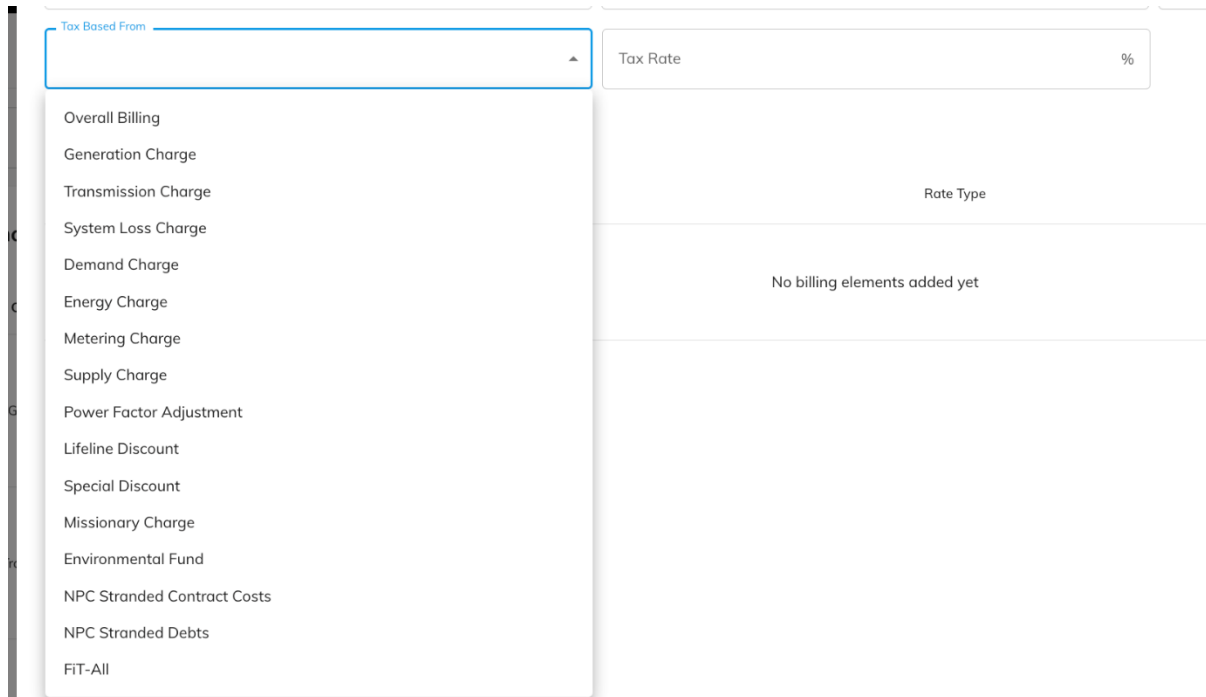
Charge Type: Consumption (kWh) Rate Type: Advanced

Monday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Tuesday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Wednesday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Thursday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Friday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Saturday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh
Sunday	Rate Type: Fixed Rate	Rate Type: P	Rate Type: J/kWh

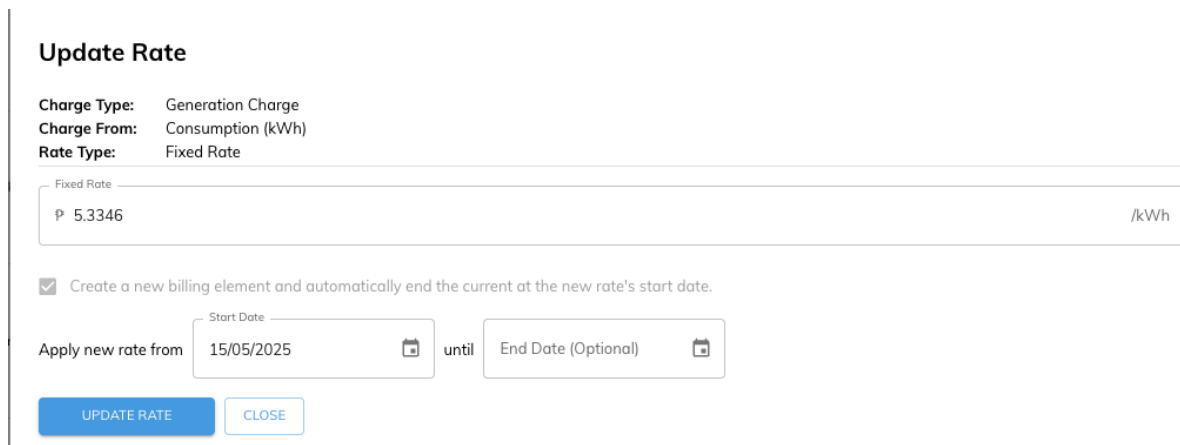
d. Unit/Quantity – For Fixed Charge, the user can set the unit. On Billing, the unit/quantity will be multiplied to the set rate.



e. Tax Based From – For Tax, The user can select from the dropdown the specific billing element on which the user want the tax to be calculated. The system will then apply the configured tax rate to the cost of this selected element. User can select also the overall billing which covers the overall billing.



3. Update rate for selected charge type



2. Copy Existing Billing Element – Allows the user to copy specified billing element to other sites within the same portfolio

Copy Billing Element


Select the sites where you want to copy this billing element.

IPI Cebu - LVSG 3

IPI Cebu - LVSG 4

IPI Cebu - LVSG 1


IPI Cebu - LVSG 2

Apply billing from Start Date 14/05/2025  until End Date (Optional) 

3. Set inactive date for the billing element – Allows the user to set the end date of selected billing element.

Set Inactive

Set the date below to indicate when this billing element should become inactive:

Inactive Date 

4. Remove Billing Element – Allows the user to completely remove the billing element

Confirm

Are you sure you want to remove this item? Removing this will remove all previous billing record.

5. Example billing structure – Allows the user to view a sample billing structure for the current billing month based on the created billing elements. It shows th

e. Sustainability Summary Settings

Sustainability Summary Settings

1. Used Green Power

Formula: $\text{Solar power Usage} + \text{Battery usage}$

Description: This represents the total green energy directly consumed by the user. It includes solar energy drawn from on-site generation and energy stored in and retrieved from batteries.

3. Total Energy Usage

Formula: $\text{Total Input from Grid}$

Description: The total energy consumed by the site from the external electricity grid, excluding renewable sources like on-site solar.

5. Carbon Footprint

Formula: $\text{Total Energy Usage} \times \text{Emission Factor}$

Description: The total greenhouse gas emissions (in kilograms of CO₂-equivalent) generated based on the energy consumed, where 0.83 represents the emission factor (CO₂e per kWh) specific to the electricity grid.

7. Renewable energy produced

Formula: $\text{Solar generation on site}$

Description: The total renewable energy produced by solar panels installed at the site.

9. Comparison to relevant industry performance

Formula: $\text{Compare with Industry GHG Benchmark}$

Description: A comparison metric showing how the site's energy efficiency or GHG emissions performance aligns with industry benchmarks or standards.

11. Actual GHG Emission

Formula: $\text{Total Energy Usage} \times \text{Emission Factor}$

Description: The total greenhouse gas emissions (in metric tons) based on actual energy usage and the emission factor.

13. Energy produced (Doughnut)

Formula: $\text{Grid} + \text{solar} + \text{wind} + \text{hydropower} + \text{wave} + \text{battery} + \text{biomass}$

Description: The total energy produced by combining renewable (solar, wind, hydropower, wave, battery, biomass) and non-renewable sources (grid electricity).

2. Sourced Green Power

Formula: $\text{Solar Generated in site}$

Description: The total solar energy generated at the user's site (e.g., via solar panels).

4. Carbon Offset

Formula: $\text{Solar generated} \times \text{Carbon Offset Multiplier} / 1000 + \text{Purchase Carbon Offset Credit}$

Description: Represents the percentage of carbon offset achieved by generating renewable solar energy on-site. The multiplier corresponds to a monetary or environmental credit value for renewable energy.

6. Total Greenhouse GHG emissions per m2

Formula: $\text{Total Energy Usage} \times \text{Emission Factor} / \text{sqm of area}$

Description: Total greenhouse gas emissions per square meter of operational or floor area.

8. Renewable energy consumed

Formula: $\text{Solar Usage on site}$

Description: The amount of solar energy directly consumed on-site instead of being exported back to the grid.

10. GHG Emission variance

Formula: $\text{Total Energy Usage} \times \text{Emission Factor} / 1000 - \text{GHG Target}$

Description: The difference between the calculated GHG emissions (based on energy usage) and the target GHG emissions set by the user.

12. GHG emission target

Formula: $\text{User defined target}$

Description: A user-defined goal for greenhouse gas emissions, expressed in metric tons.

14. Energy consumed (Doughnut)

Formula: from Grid

Description: The total energy consumed by the site from the grid (external sources).

Save Changes

Release Management

Release notes and version update lists

[Portfolio Management](#)

My Portfolio

Portfolio Display Mode

[User Management](#)

Manage Partner Users

[Master Config Management](#)

Master Config Management

V 3.1 (VIEW LOG)

Release Notes ✕

Edge Zero Platform

v 3.1.0

Released June 17, 2025

- Add Support for Three Phase (3-wire) Delta Clockwise and Three Phase (3-wire) Delta Counter Clockwise circuit configuration.
- Add Support for Secondary Circuit Configuration for Edge Monitor Devices.
- **My Portfolio:**
 - Portfolio Details > PQ Analysis Tab & Harmonics Tab - add support to zoom & fullscreen charts.
 - Portfolio Details > PQ Analysis Tab - For single power source / power load view, allow users to have flexible date range & power quality data to export by sending the data on email.
 - Portfolio Details - Apply Circuit Configuration to all power source and power load.
 - Enhanced Date Filtering: When adjusting the date range, currently selected date will now be used as the starting point, instead of resetting to the current date.
- Bug Fixes:
 - Portfolio Details - Fix resizing issue. Improved support for Tablet screens.
 - Portfolio Details - Financial/Operational Summary - On Daily Energy Cost/Usage - show loading when the data is not yet available.
 - Portfolio Details - Engineering View, Live Summary - Live Channel Table - set values up to 2 decimal only
 - Portfolio Details - Commercial View, Live Summary - Fix issue where yearly consumption data is not displayed
 - Master Config - User Access - Fix issue on user deactivation not properly processed.

v 3.0.0

Released May 12, 2025

The Portfolio section has been updated to streamline navigation and provide improved access to insights. This update introduces a new menu structure and enhanced filtering capabilities, allowing for more efficient configuration and management of portfolio views.

- **My Portfolio:**
 - **Enhanced Filter Experience:** A new and improved filtering system has been implemented. Users can now more easily configure and manage portfolio views based on their specific requirements.
 - **New "Engineering View":** A new "Engineering View" is now available, providing detailed technical information, including: Load Profile, Power Quality (PQ) Analysis, Harmonics Analysis and Voltage Summary
 - **Updated and Enhanced "Commercial View":** The "Commercial View" has been updated to offer comprehensive data on: Live Summary, Financial Summary, Operational Summary and Sustainability Summary
- **New "Master Config Management" Menu:** A centralized "Master Config Management" hub has been introduced for managing: Portfolio Settings, User Access Permissions and User Management, Site Configurations and Financial Parameters and Sustainability Settings

v 3.0.1