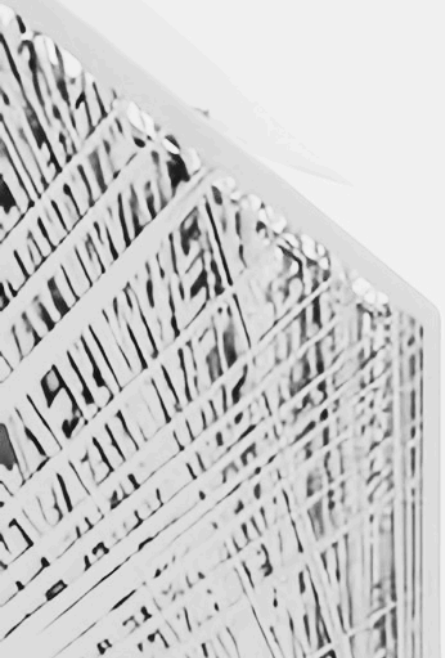




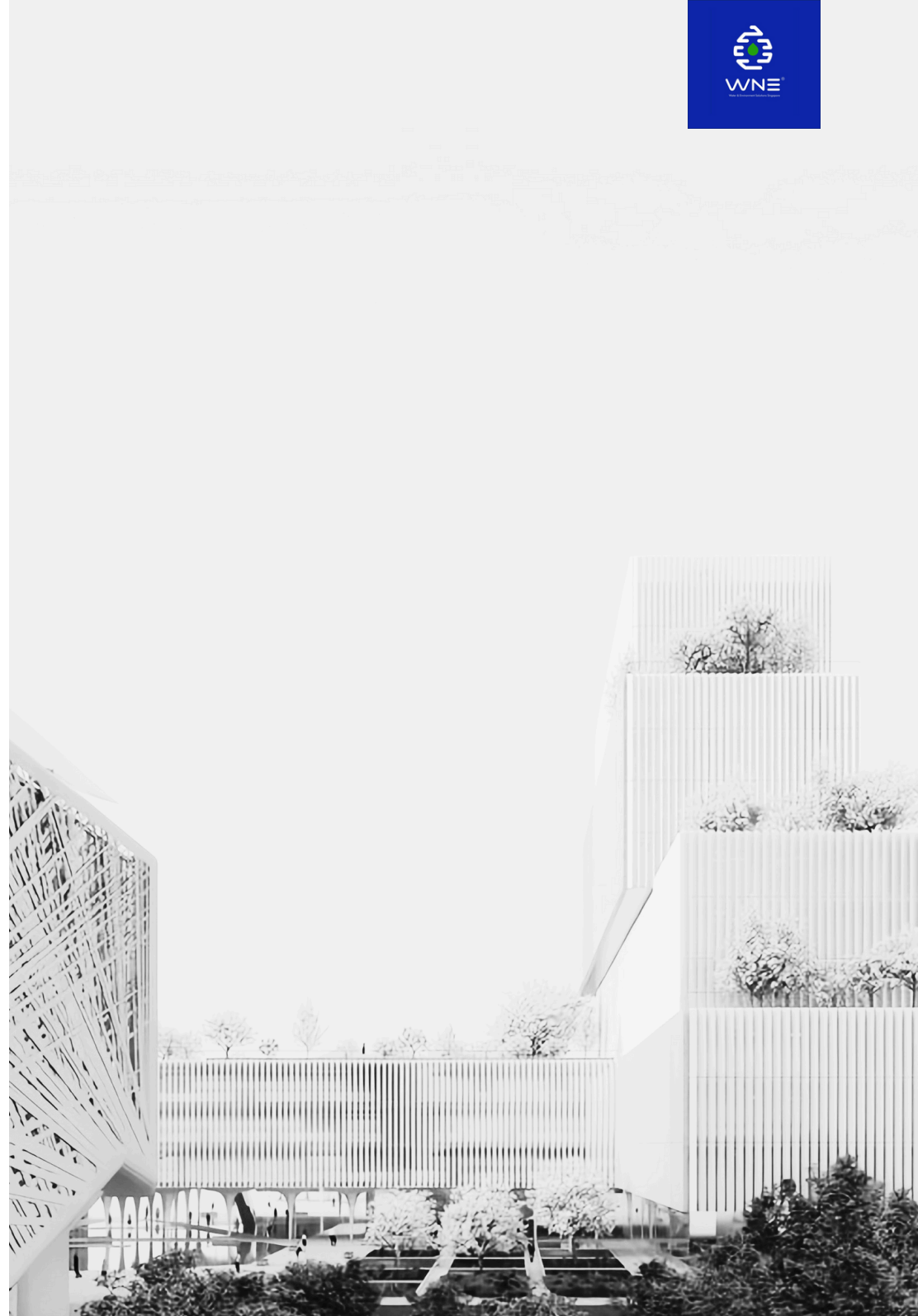
2025 Presentation

WNE BEMS

Building Energy Management System



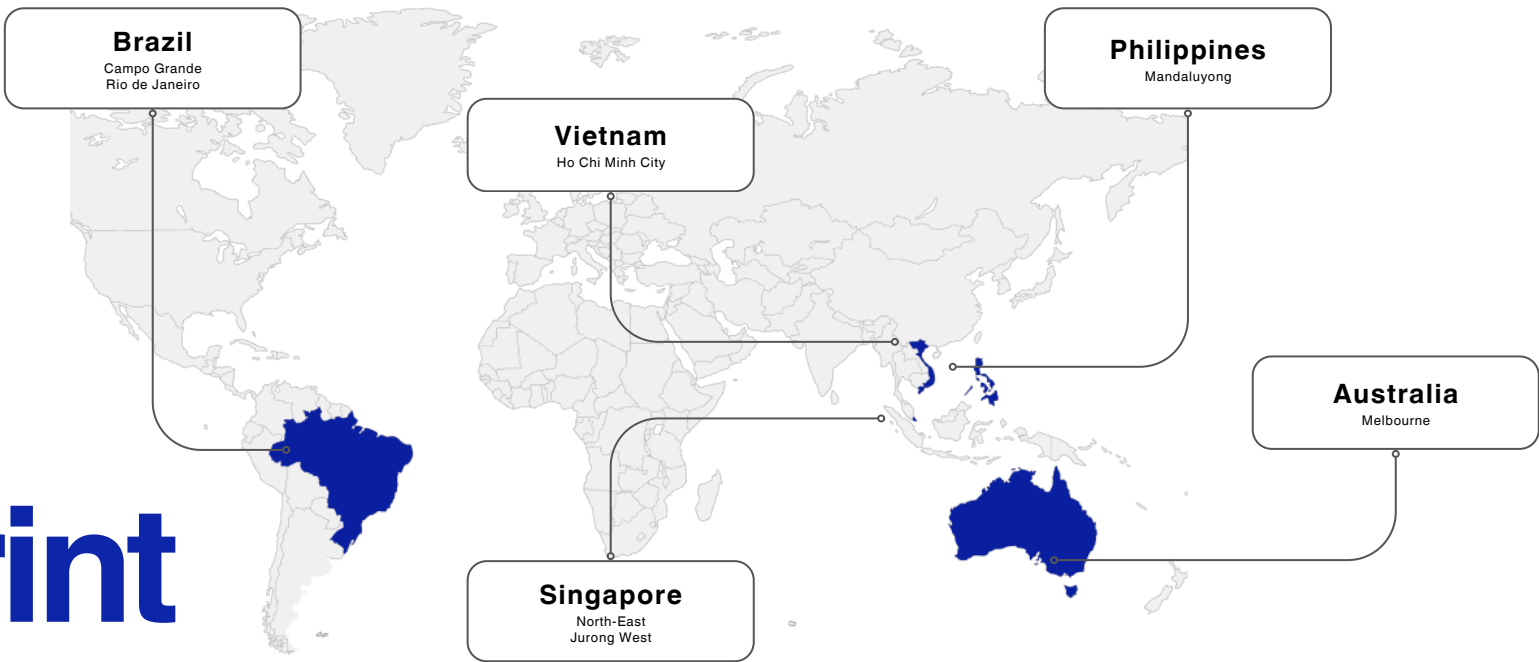
Innovation to Efficiency





2018: Established in Singapore

2025 WNE Footprint



Managed	Integrated with	With	Scale up to	Approx.
37+	90+	14,000	300,000	336,000
building & utility	meter types and models	meters currently managed on platform	meters by 2025	data points per day (24 data points per meter)

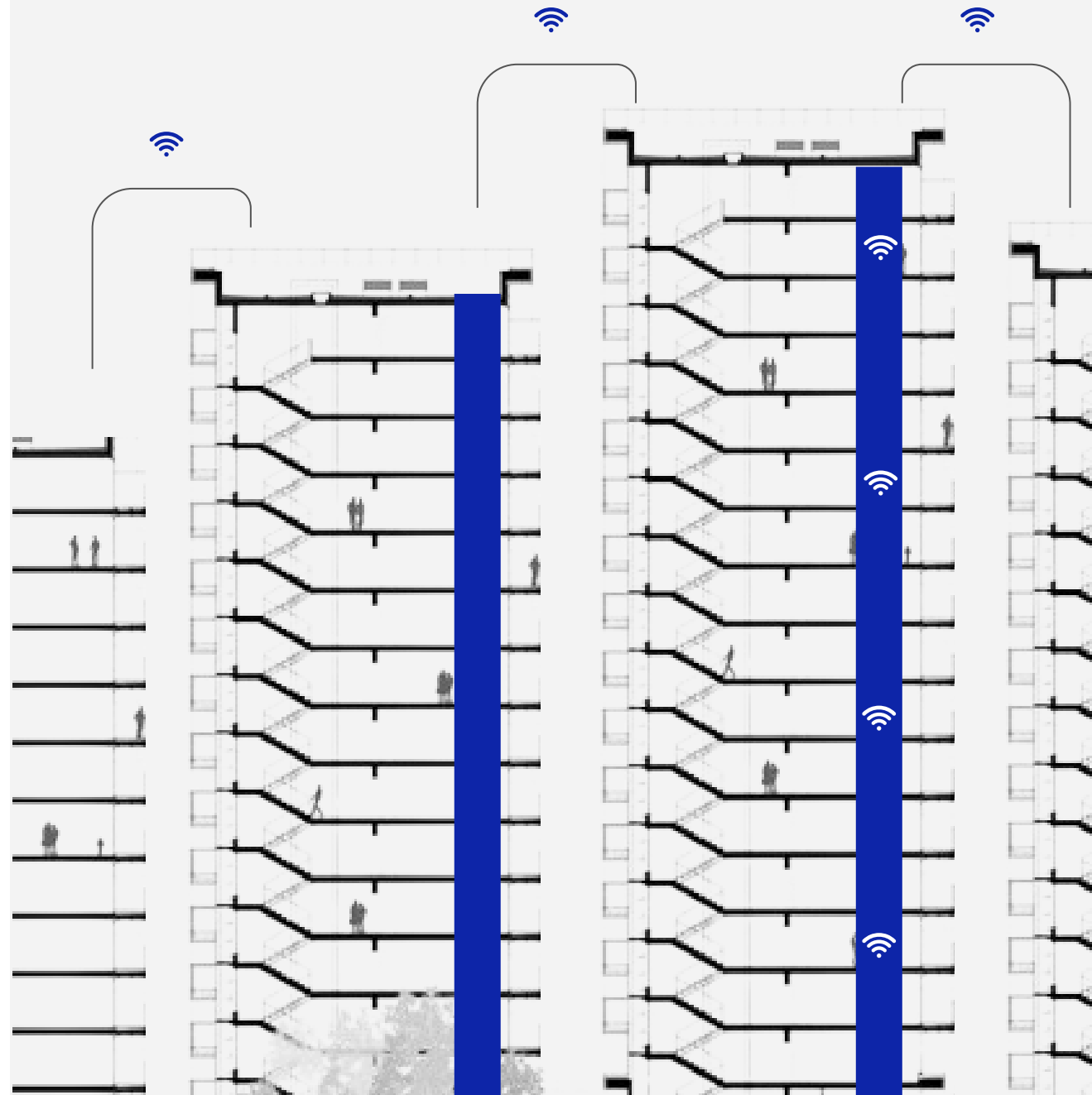
1.

Hardware Solutions

2.

Software Solutions

To Efficiency Buildings



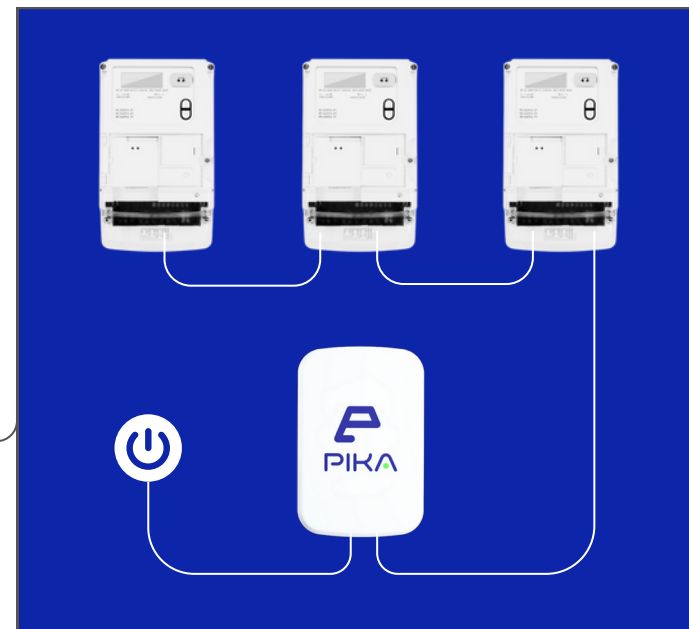
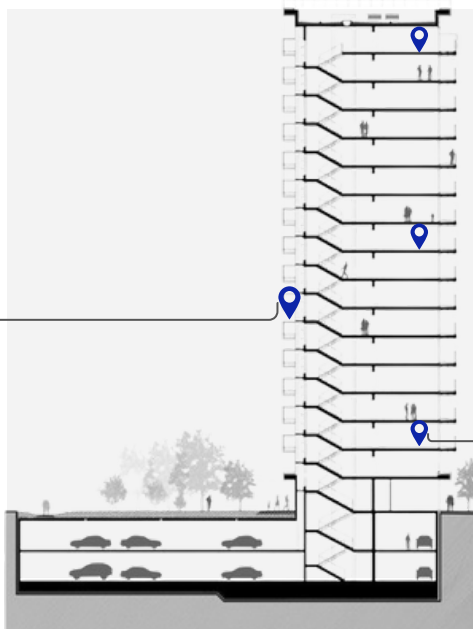
1.

PIKA - IoT Device

From RS485 Modbus to LoRaWAN/4G

Entire Building Energy Flow

IP68 & International Certifications



Integrated with

24+

meter types and models
sensors
solar panels

Only requires

RS485 Modbus

protocol

Just

Plug and Play

find more details by connecting with
info@wnesolutions.sg

Support

Daisy Chain

Up to 8 meters

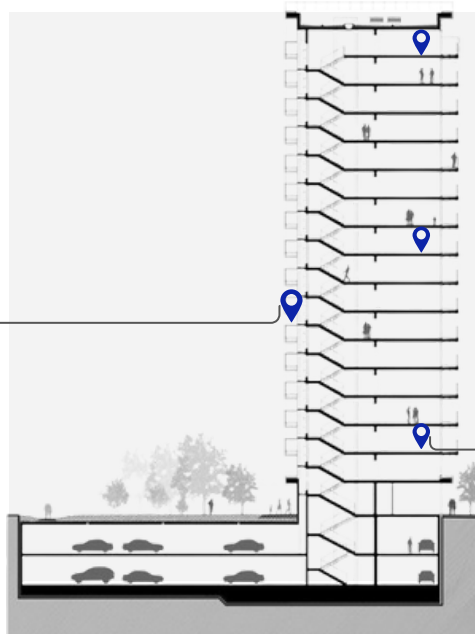
1.2

MIU - Water Meter Interface Unit

Read pulse data from water meter

LoRaWAN / NB-IOT Communication Type

IP68, IK09 & International Certifications



Collection data with

High Accuracy

in real-time

Ensure

Cost Effective

by installation & replacement

Up to

10 years Battery Life

transmission interval is 3 times/day

Transmit & receive data over

LPWAN

technology

2.

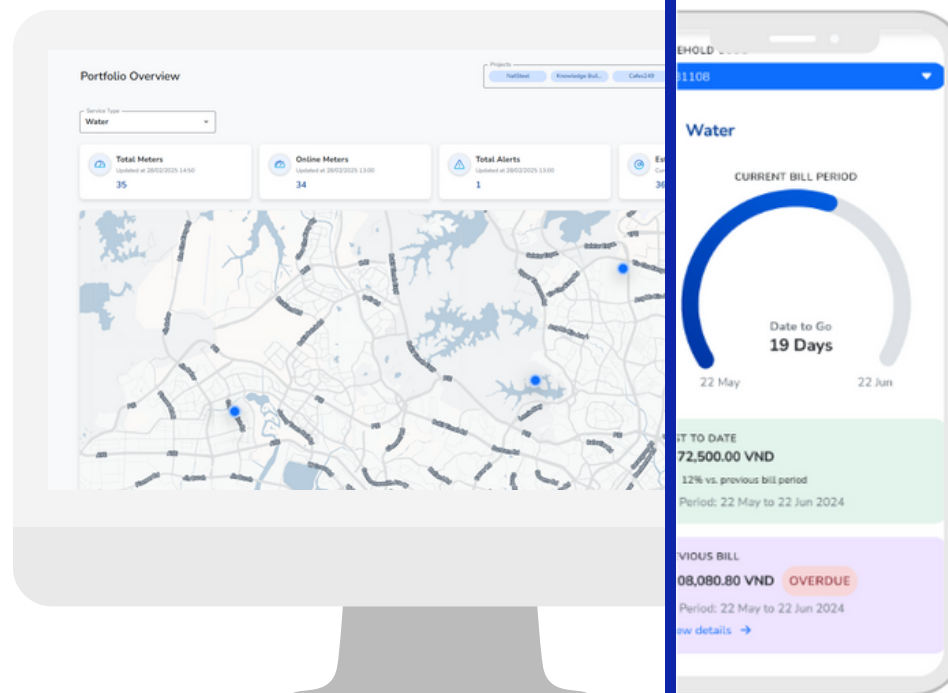
8TEN - Building Energy Management System (BEMS)

Management Portal

For Tenants

For Building Operators

Customer Portal





2.2

8TEN - BEMS Key Benefits

Collection data with

High Accuracy

in real-time

Seamless manage

Portfolio Buildings

in one system

Streamline

Billing & Invoicing Process

by one-time setting

Allow

Proactive Alerts

without manual tracking

Customizable the

Widgets & Dashboards

for efficiency

Provide

Tenants Mobile App

ensures seamless, and transparent operations



PORTFOLIO BUILDING OVERVIEW PAGE

1. Solutions

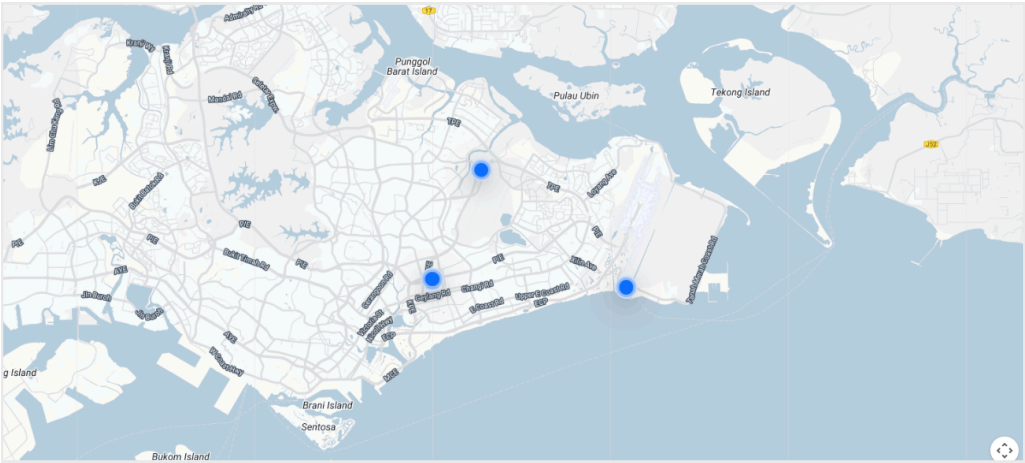
Visualization

- Displays the location of multiple buildings and allows operators to drill down into each building.
- Provides an overview of key performance indicators for each building.
- Compares energy usage across multiple buildings against the average usage line.

2. Benefits

- Enhances Operational Efficiency: Providing a clear overview of multiple buildings in one interface.
- Enables Data-driven Decision-making: Through real-time insights into key performance indicators.
- Identifies Energy Inefficiencies: By comparing usage trends against the average, allowing for proactive optimization and cost reduction.

3. How It Works



1. Solutions

Usage Chart

- Detailed Visualization: Track energy usage by days, months, and years, as well as within specific time ranges.
- Peak Consumption Identification: Recognize periods of peak energy consumption.
- Loss Data Detection: Identify energy loss data by month, day, and hour.
- Incident Identification: Detect and analyze abnormal incidents.

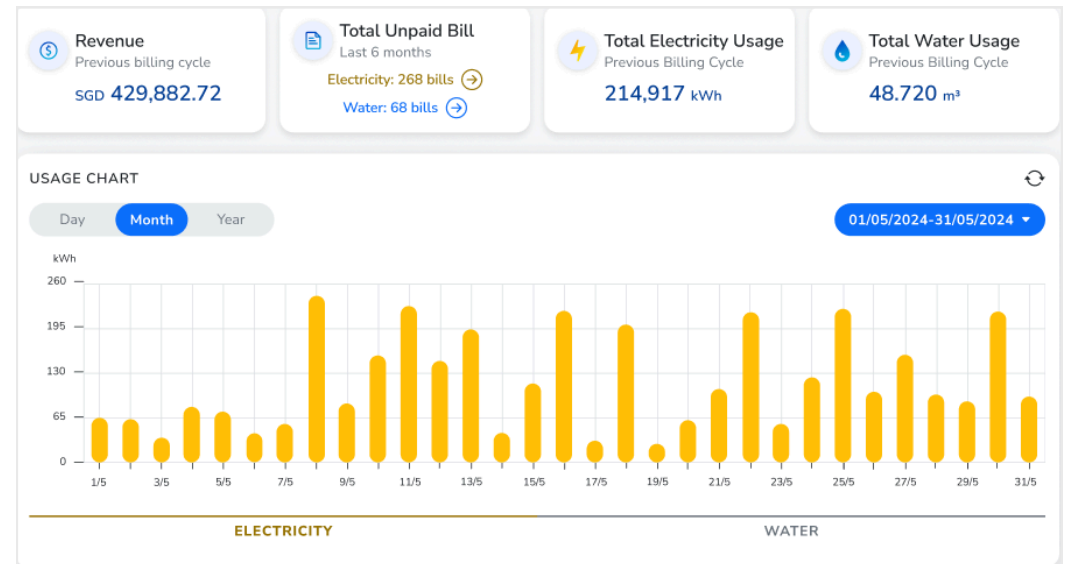
Building Performance Overview

- Comprehensive Indicators: Get an overview of key building indicators such as total revenue, billings, and energy usage.

2. Benefits

- Operational Efficiency: Streamlines monitoring and decision-making processes.
- Cost Savings: Identifies peak consumption periods to optimize energy usage.
- Proactive Management: Alerts enable timely intervention to prevent issues.

3. How It Works



PERFORMANCE OVERVIEW

1. Solutions

- Database: Stores tenant details, household locations, household devices, and payment history.
- Search and Filter: Allows searching for households by building or filter usage by services.

2. Benefits

- Streamlined Processes: Centralized data management reduces manual tasks.
- Effective Communication: Ensures prompt and clear communication with tenants.
- Improved Satisfaction: Efficient management leads to higher tenant satisfaction.

TENANTS MANAGEMENT

3. How It Works

Households						
		TTG - Lancaster	Househ...	Enter household code, apartment, own...		
		Building	Service			
		All	All			
	CUSTOMER NAME	EMAIL	PHONE	TYPE	USAGE	
18-01B	KAZUHIKO SUGIMURA	sugimura@kddivietnam.com.test			0 m³	
04-Giặt ủi	Công ty CP Đầu Tư An Thủy Anh	bql@lancaster.com.vn.test			861.740 m³	
G - 7Eleven	CÔNG TY CP SEVEN SYSTEM VIỆT NAM	my.tnt@ssv.com.vn.test			1 m³ 1.830 kWh	
01-Deaura	Tự Mỹ Ngõ	spg-acc010@spg-sportsgear.com.test			0 m³ 0 kWh	
02-Deaura	CHI NHÁNH VENESA HỒ CHÍ MINH CÔNG TY TNHH VENESA	trangntm1@venesa.vn.test			3 m³ 1.374 kWh	
0304 - Việt Úc	CÔNG TY CP THỦY SẢN VIỆT ÚC CN TP.HCM	dieutran@vietuc.net.test	+84774011187		615 kWh	
0303-Việt Úc	CÔNG TY CP THỦY SẢN VIỆT ÚC CN TP.HCM	dieutran@vietuc.net.test	+84774011187		545 kWh	
0301 - Lotus	PHÒNG KHÁM ĐA KHOA HOA SEN	account@lotus-clinic.com				

		CHI NHÁNH VENESA HỒ CHÍ MINH CÔNG TY TNHH VENESA	
		, Hồ Chí Minh, Việt Nam	
		Overview	Billing Services
		HOUSEHOLD OWNER	
		Information	
		Customer ID: LCB04	
		Name: CHI NHÁNH VENESA HỒ CHÍ MINH CÔNG TY TNHH VENESA	
		Email: trangntm1@venesa.vn.test	
		Send Welcome Email	
		HOUSEHOLD	
		Information	
		Household Address	
		02-Deaura, Lê Thánh Tôn, 1, Hồ Chí Minh, Việt Nam	
		Household Type	
		Business	
		Household Code	
		LCB04	
		Bill Cycle Date	
		22	
		USAGE	
		30/6/2024 - 30/7/2024	
		Day Month Year	
		Water	
		Reset Usage	
		m³	
		0 0.250 0.500 0.750 1	
		30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	
		6 7	
		INVOICES	
		MONTH TOTAL AMOUNT STATUS	
		07/2024 34,433,930.00 VND	

1.

- 2.

- **Resource Optimization:** Identifies underutilized or redundant assets.
- **Maintenance Efficiency:** Proactive maintenance reduces downtime and costs.
- **Enhanced Monitoring:** Comprehensive asset overview improves operational efficiency.

ASSETS MANAGEMENT

3.

Sensor

PESFarm - Paradise Eco Smart f...

Farm

Enter household code, apartment, owner email, name

status

Online

Serial

COLUMNS

ADD

Download

SENSOR SERIAL	DEVICE SERIAL	NEW VALUE	TYPE	STATUS	UPDATED AT	ACTION
C_CNC1T2_Root_Moisture	00000000aa400037	0	MOISTURE	<div></div>	16:33 30/07/2024	<div><div></div><div></div><div></div></div>
C_CNC1T2_Root_Temp	00000000aa400037	15.7 C	TEMPERATURE	<div></div>	16:33 30/07/2024	<div><div></div><div></div><div></div></div>
A_L2C3T2_Root_Temp	00000000aa40002E	21.6 C	TEMPERATURE	<div></div>	16:35 30/07/2024	<div><div></div><div></div><div></div></div>
A_L2C3T2_Root_Moisture	00000000aa40002E	0	MOISTURE	<div></div>	16:35 30/07/2024	<div><div></div><div></div><div></div></div>
A_L1C3T2_Root_Moisture	00000000aa400099	0	MOISTURE	<div></div>	16:40 30/07/2024	<div><div></div><div></div><div></div></div>
A_L1C3T2_Root_Temp	00000000aa400099	22.6 C	TEMPERATURE	<div></div>	16:40 30/07/2024	<div><div></div><div></div><div></div></div>
A_L1C3T2_PPFD	00000000AA9001BA	45	PAR	<div></div>	16:38 30/07/2024	<div><div></div><div></div><div></div></div>
A_L2C3T2_PPFD	00000000AA3001B2	29	PAR	<div></div>	16:36 30/07/2024	<div><div></div><div></div><div></div></div>
C_L5 Return Tank EC	00000000AA300091	0.23	ELECTRICAL_CONDUCTIVITY	<div></div>	16:42 30/07/2024	<div><div></div><div></div><div></div></div>
C_L5 Return Tank Temp	00000000AA300091	17.6 C	TEMPERATURE	<div></div>	16:42 30/07/2024	<div><div></div><div></div><div></div></div>

10

<

>

1. Solutions

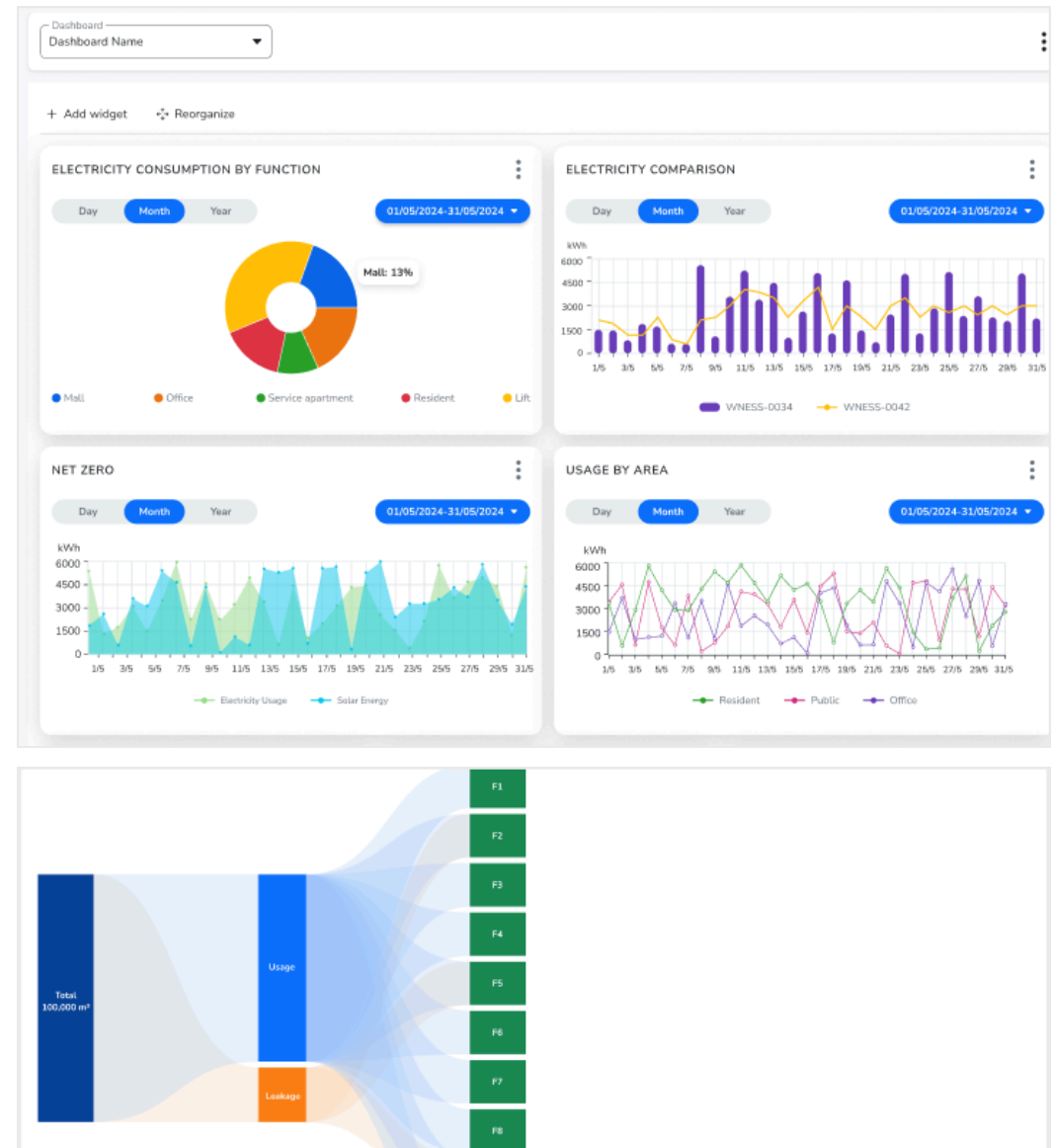
- **Advanced Analytics Platform:** Centralized system for data aggregation, analysis, and visualization.
- **Leakage Detection:** Provides a leakage chart to identify and quantify leakage rates from specific meters.
- **Customizable Dashboard:** Allows users to create personalized dashboards and widgets to manage energy based on their specific needs.

2. Benefits

- **Data Visualization:** Visual representation of data for easier interpretation and analysis.
- **Immediate Leakage Detection:** Quickly identifies and addresses leakage issues to prevent resource wastage.
- **Informed Decision-Making:** Data-driven insights support strategic planning and decision-making.

DATA ANALYSIS

3. How It Works



BILLING & INVOICE & PAYMENT

1. Solutions

- **Automated Generation:** Bills are generated automatically from consumption data.
- **Customization:** Billing parameters can be customized to meet specific requirements.
- **Comprehensive Reporting:** Easily download for billing reports.
- **Delivery:** Invoices are sent directly to end-users via email or accessed through the app.

2. Benefits

- **Accuracy:** Ensures precise and consistent billing.
- **Efficiency:** Reduces the time and effort required for manual billing.
- **Convenience:** Easy access to bills and payments through the platform.

3. How It Works

Bill Period

Created At

Range

Pay Before

05/2024

22/05/2024 01:30 AM

22/04/2024 - 22/05/2024

22/05/2024

CUSTOMER DETAILS

Customer ID	LCB1108
Customer Name	Augustus
Address	415 Macaulay Road, Kensington, Victoria, Australia, Australia
Household Code	LCB1108

SUMMARY OF CHARGES (22/04/2024-22/05/2024)

Previous Balance	SGD 60.00
Credits	SGD 50.00CR
New charges (*)	SGD 114.63
Total Amount Due	SGD 124.63

(*) NEW CHARGES (Previous reading: 58.970 KWH | Current reading: 167.340 KWH)

Time of Use	Usage (kWh)	Rates (SGD/kWh)	Amount (SGD)
At all times	50.000	1.00	50.00
At all times	50.000	1.10	55.00
At all times	8.370	1.15	9.63

Building Overview

Data Analysis

Households

Bills

Bill Calculation

Assets

Alert

Staffs

System Permissions

Data Management

Edit Bill Calculation

Service (*)
Household Type
Household Code (*)
Description

Water
Household Type
Household Code (*)
Description

Bill Calculation Type
Formula

Household Type
VAT (%)

Household Type
Household Type (*)
All

Ranges
From (m³)
Price (SGD)
0
2.75

Household Type
Household Type (*)
Normal

Ranges
From (m³)
Price (SGD)
Enter usage level
Enter price per unit

TENANT/USER APP

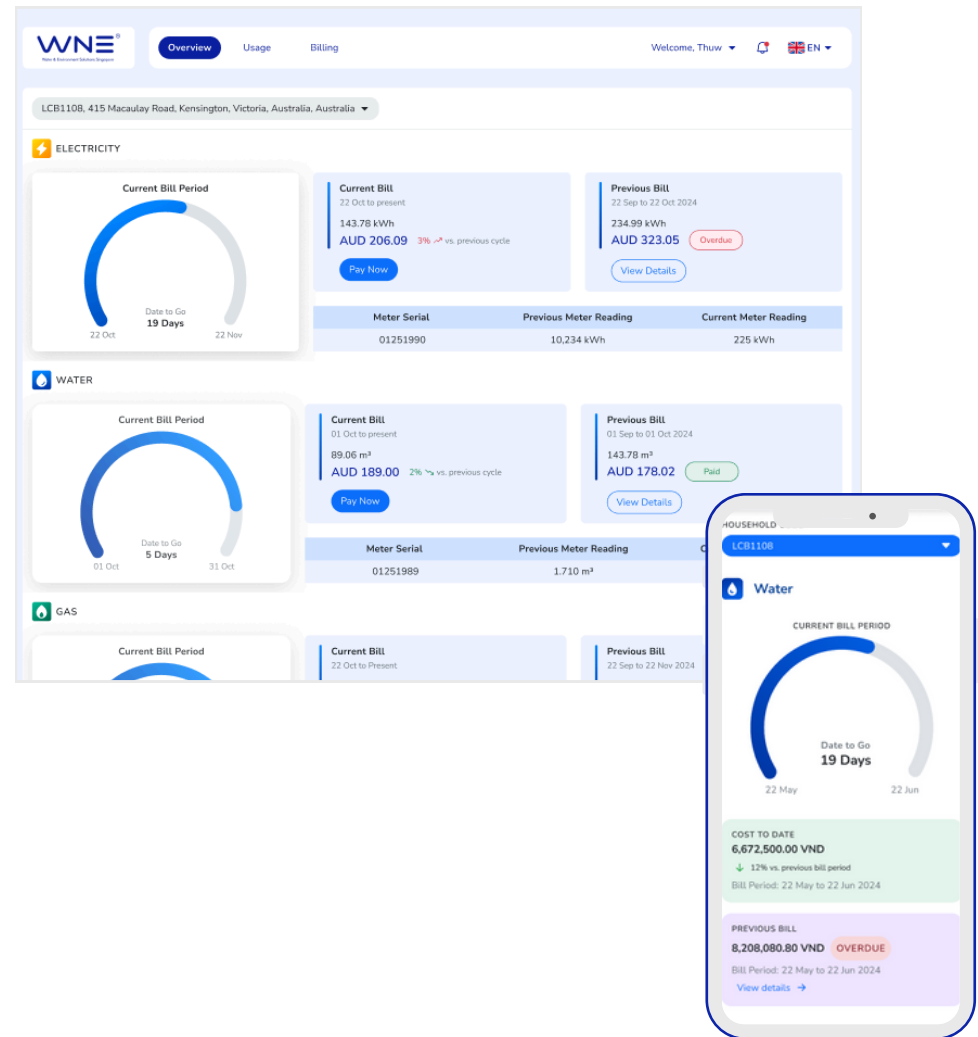
1. Solutions

- Access: Tenants can view and download invoices, and make payments directly through the app.
- Account Management: Tenants can update their contact information and access customer support.
- Communication: Streamlines communication between tenants and management.

2. Benefits

- Transparency: Provides clear and transparent billing information.
- Convenience: Simplifies the payment process for tenants.
- Enhanced Experience: Improves overall tenant satisfaction and engagement.

3. How It Works





Request a Demo

To gain Energy monitoring, Sustainability, Green Building Value Innovation, Reliable and Experienced



E: info@wnesolutions.sg

www.wnesolutions.sg