2025 Presentation

WNE WATER MDMS

Water Meter Data Management System
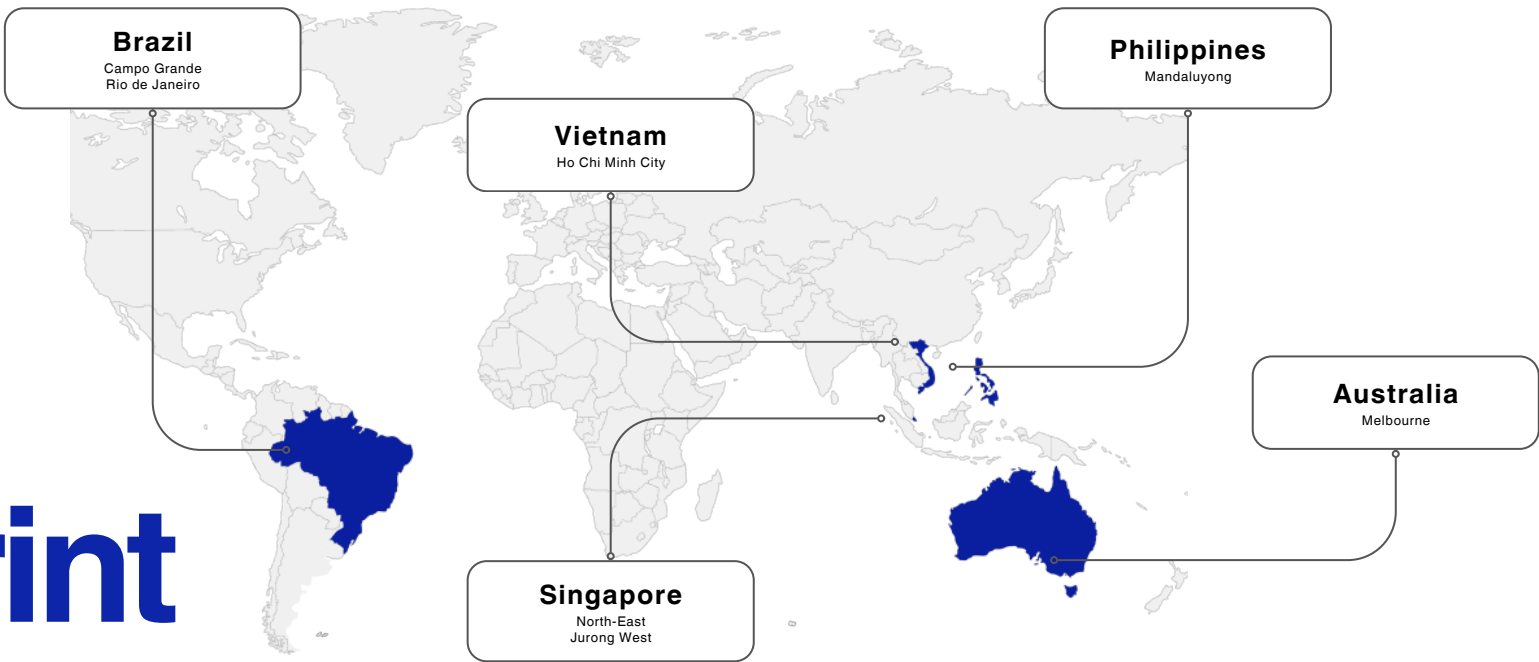
Innovation to Efficiency

ST Engineering

SEMTECH®

Qualcomm

everynet

kerlink
communication is everything

Azure

aws

BAYLAN
WATER & ENERGY METERS

2025 WNE Footprint

Brazil
Campo Grande
Rio de Janeiro

Vietnam
Ho Chi Minh City

Philippines
Mandaluyong

Australia
Melbourne

Singapore
North-East
Jurong West

Managed
37+
building & utility

Integrated with
90+
meter types and models

With
14,000
meters currently
managed on platform

Scale up to
300,000
meters by 2025

Approx.
336,000
data points per day
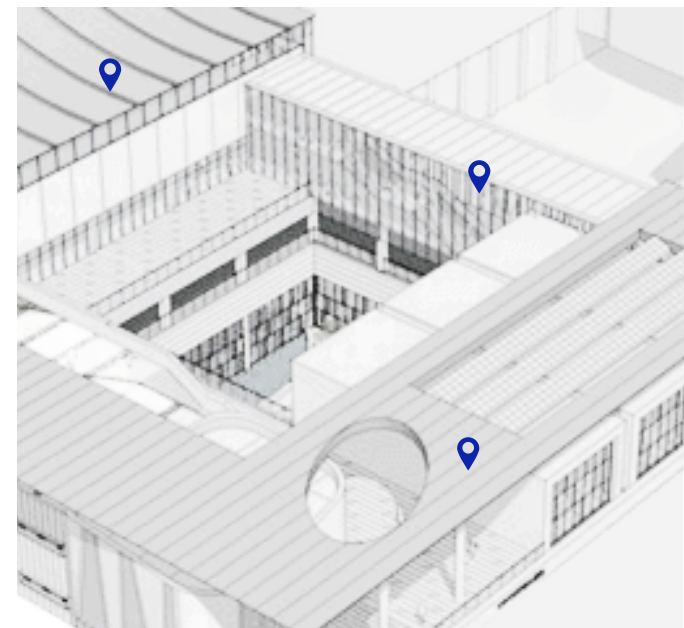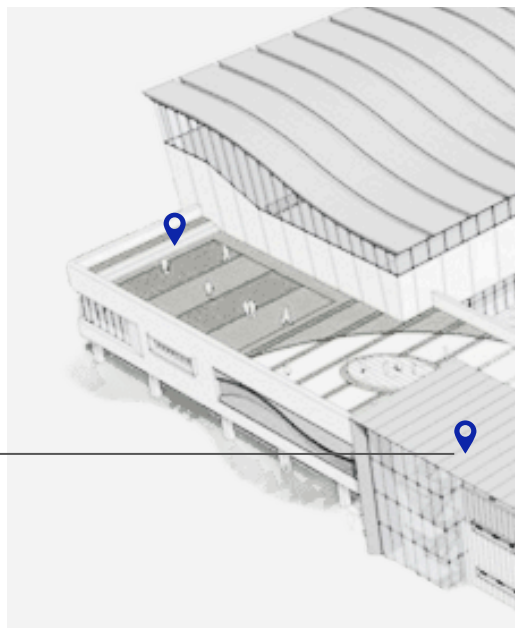(24 data points per meter)

To Efficiency Utilities
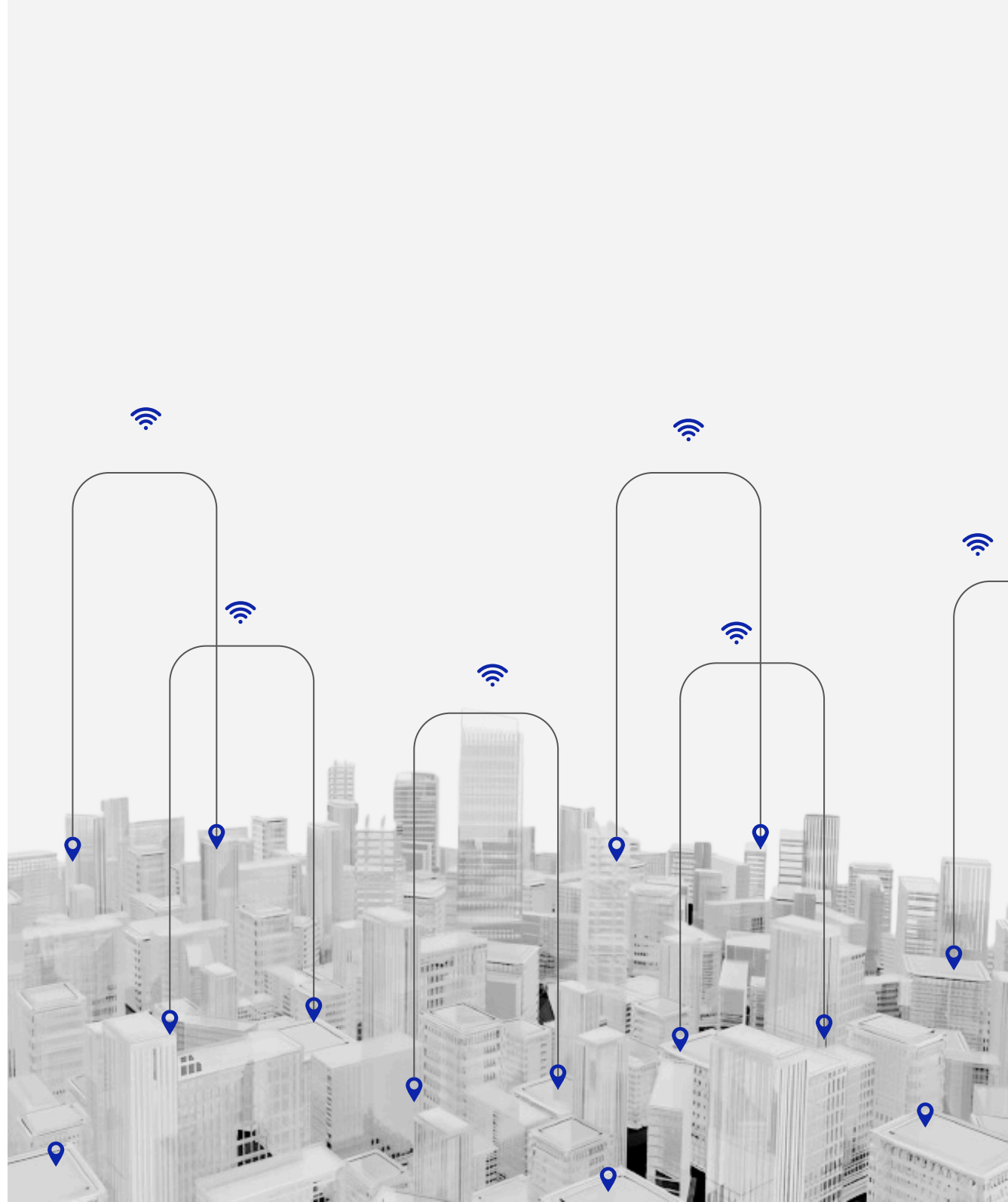
MIU - Meter Interface Unit

Read data from water meter only

LoRaWAN / NBIOT 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
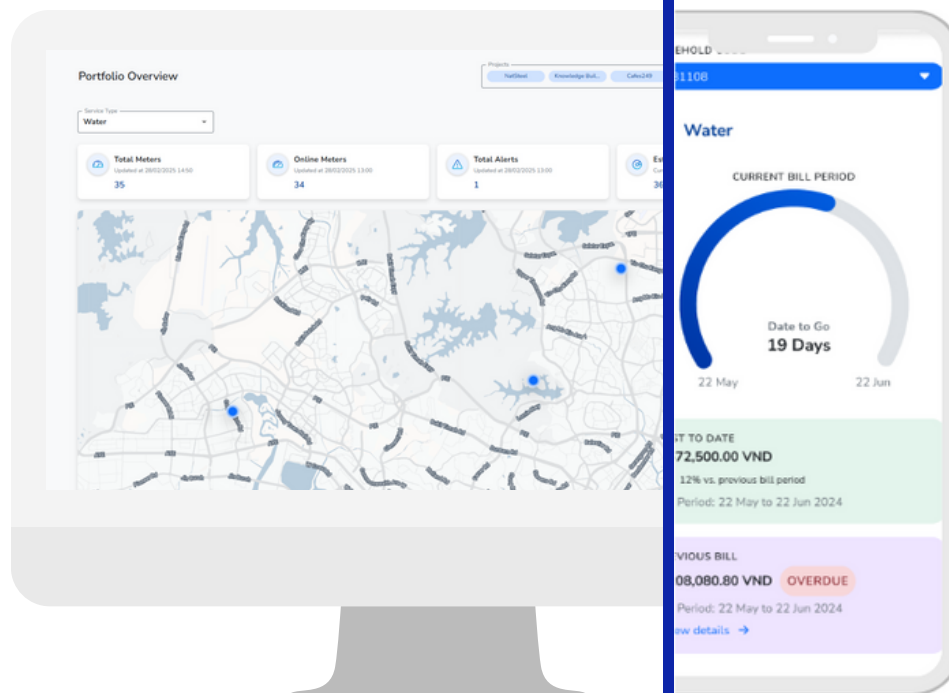
Transmit & receive data over

LPWAN

technology

8TEN - Water Meter Data Management System (MDMS)

Management Portal

For Tenants

For Utility Operators

Customer Portal

2.2

8TEN - MDMS Key Benefits

Support

Multi-Meter Compatibility

in one platform, any meter

Multi-level access to

Municipal Utilities / DMAs

for water loss detection & resource allocation

Customize

Widgets Analysis & Alerts

for lost & recovered water (LRW)

With

Scalability

to handle growing demands

Provide

Households Mobile App

ensures seamless, and transparent operations

Streamline

Billing & Invoicing Process

by one-time setting
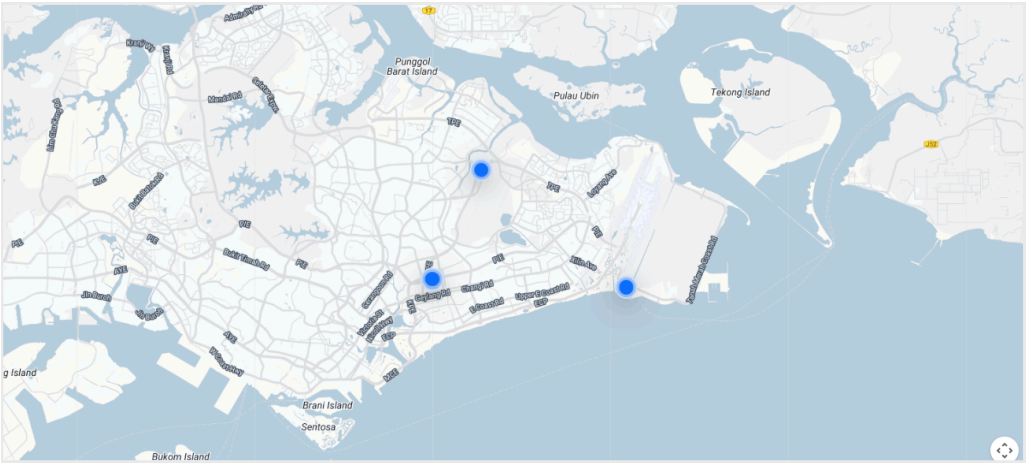
MUNICIPAL UTILITY OVERVIEW PAGE

1. **Solutions**

Visualization

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

2. **Benefits**

- Enhances Operational Efficiency: Providing a clear overview of multiple utilities 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**

Water Usage Chart

| PROJECTS	TOTAL METERS	ONLINE METERS	FROM	TO	CONSUMPTION	TOTAL ALERTS
DTL MRT Stations	111	109	01/02/2025 00:00	21/02/2025 16:00	9,624,552	125
Depots & Facilities	34	34	01/02/2025 00:00	21/02/2025 16:00	1,333,457	85
NEL MRT Stations	49	48	01/02/2025 00:00	21/02/2025 16:00	10,008,855	199

MAP VIEW

1. Solutions

- Device Location Overview: The Map View provides a visual representation of the devices' physical locations, marked with interactive icons.
- Status Filtering for Quick Insights: Filter devices based on their operational status. Users can select specific filters to display only devices of a particular status (e.g., online, offline).
- DMA Zoning: The Map View offers the ability to divide and display devices by District Metered Areas (DMAs) within your utility network.

2. Benefits

- Efficient Management: Centralizes device monitoring and status tracking, enabling better decision-making and management of your assets from one place.
- Issue Resolution: Easier identification and resolution of issues.
- Enhanced Usability: Intuitive interface improves user experience.

3. How It Works
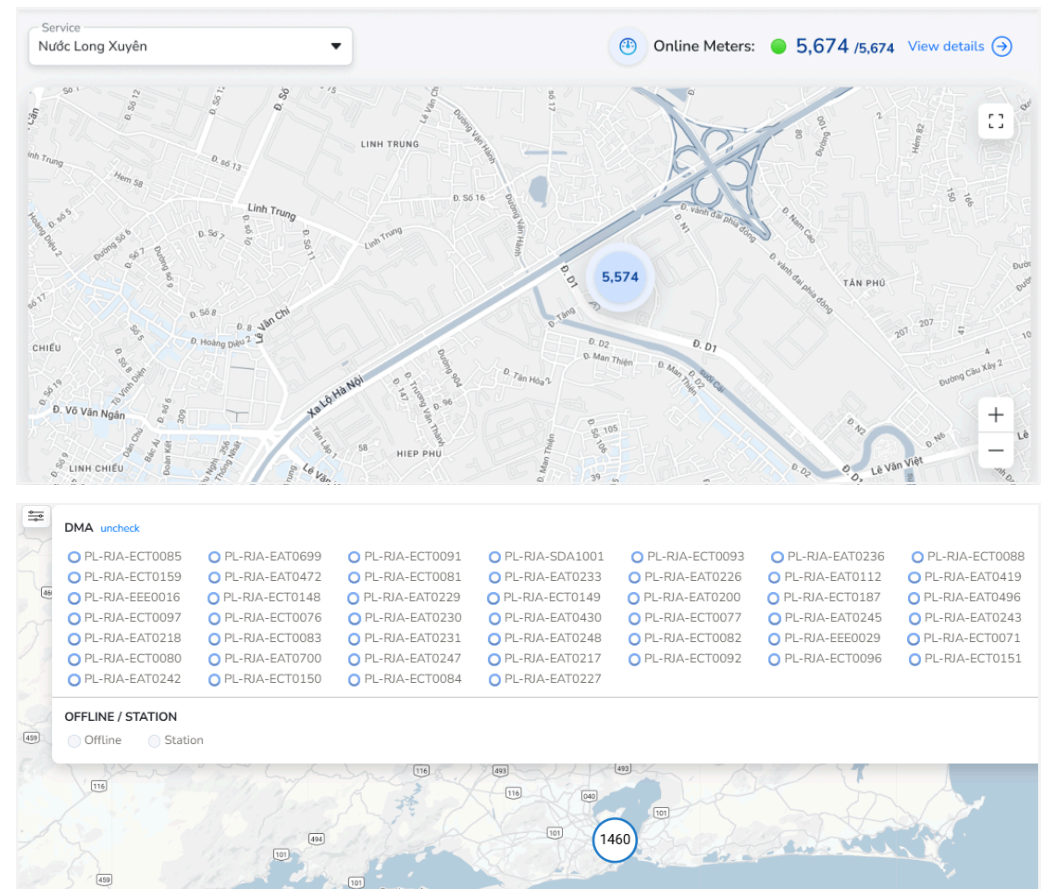
1. Solutions

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.

Utility Performance Overview

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

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.
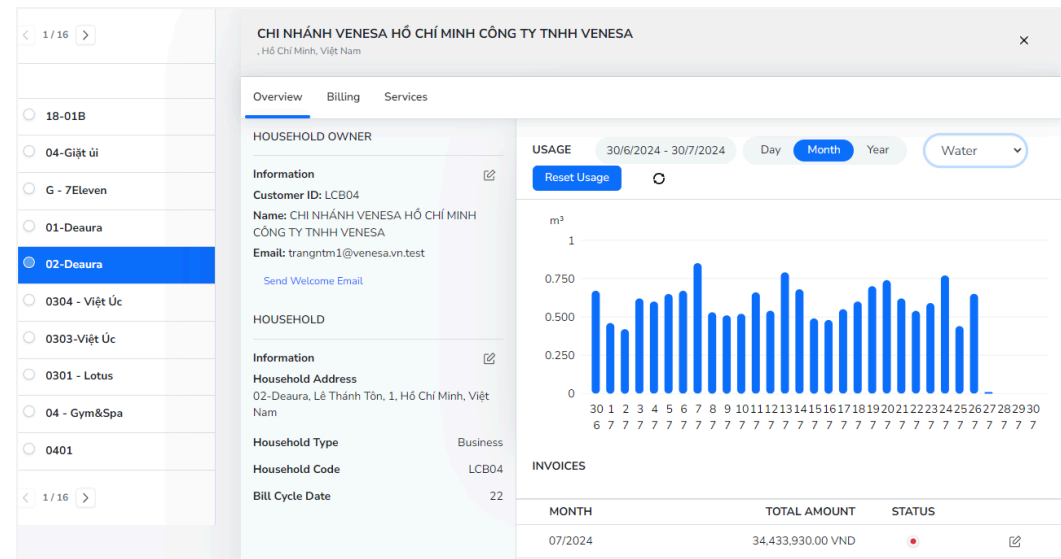- Search and Filter: Allows searching for households by building or filter usage by services.

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

	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 Thùy 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 Ngô	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			850 kWh

1. Solutions

- Centralized System: Monitors and manages assets e.g. smart meters, and sensors.
- Performance Tracking: Tracks asset performance and users can schedule maintenance, and plan for replacements or upgrades.

2. Benefits

- 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. How It Works

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
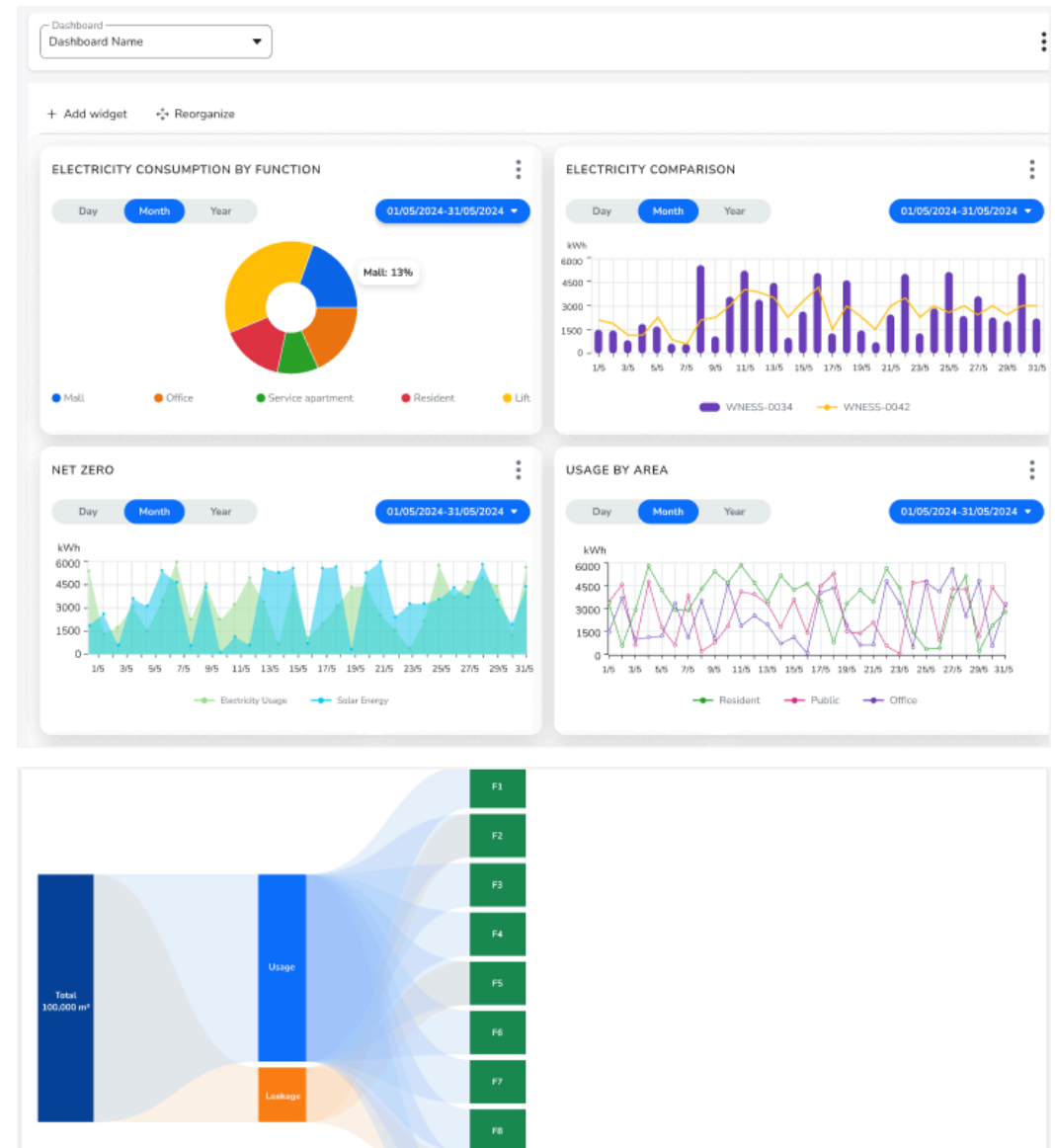
BILLING & INVOICE & PAYMENT

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

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.
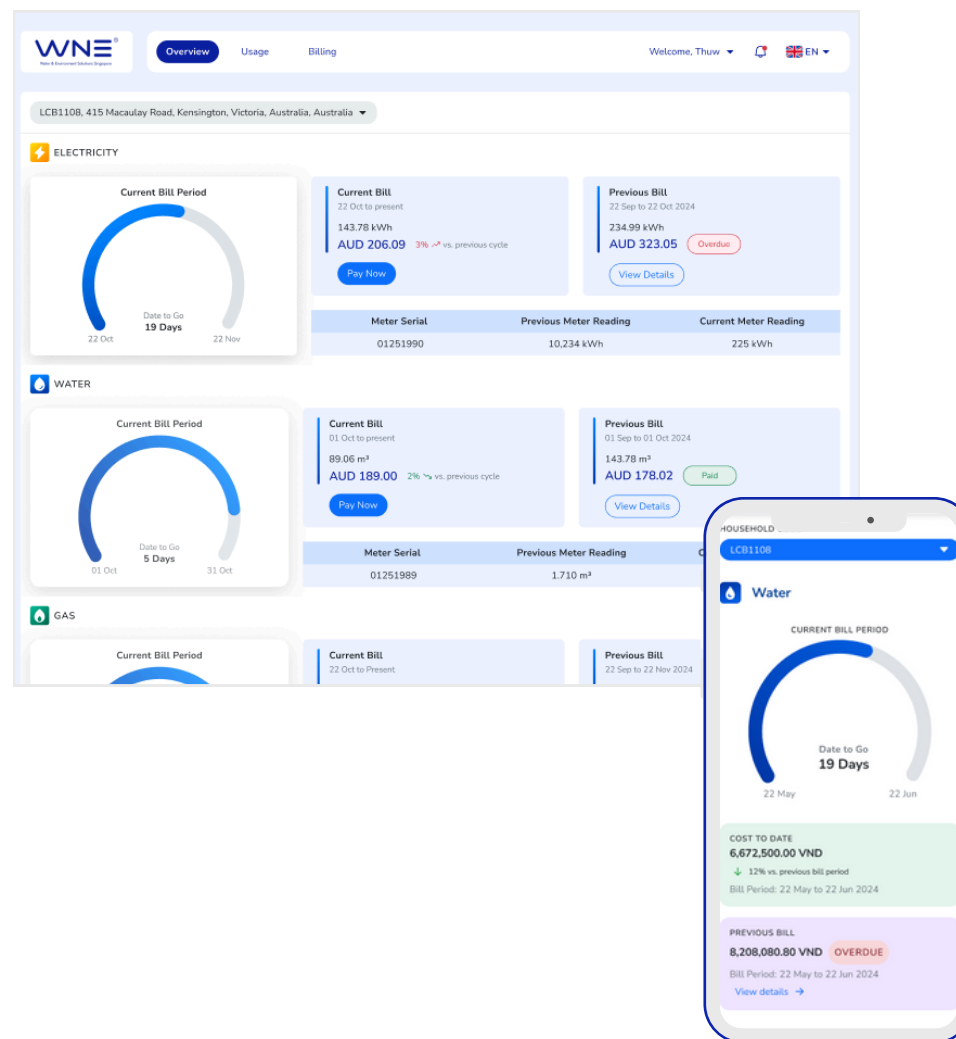
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