

Meter Data Management System (MDMS)

TRAINING SLIDES

2024

Confidential



- 01** Overview
- 02** Data Analysis
- 03** Households
- 04** Bills
- 05** Bill Calculations
- 06** Meters
- 07** Alert

Agenda

SAFRA Jurong

Househ...

Enter household code, apartment, owner email, name



EN



Sidebar menu includes:

- Logo
- A wide range of pages to help you manage your project effectively

Select the drop-down list, then search the information you need for quick access

Click the bell icon to see all the notifications such as alerts, etc. Select the language based on your preference: English

To view or edit personal information and password

TOTAL WATER USAGE

PREVIOUS BILLING CYCLE

0 m³

SMART METER STATUS

5 /5
(meters working)

Account

Name
WNESS Admin

Email
info@wnesolutions.sg

Address

Phone

Language
English

Save

Password

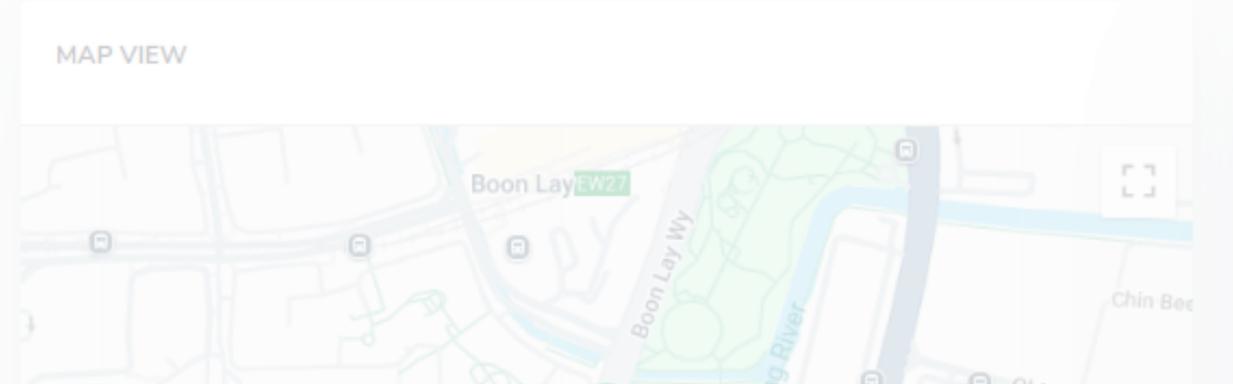
Old Password

New Password

Confirm Password

Save

MAP VIEW



USAGE

1/9/2024 - 2/10/2024

Day

Month

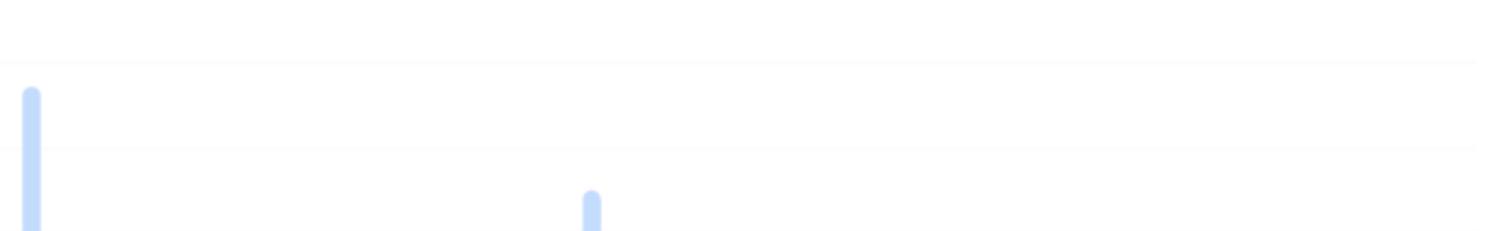
Year

m³

180

135

90



01. OVERVIEW

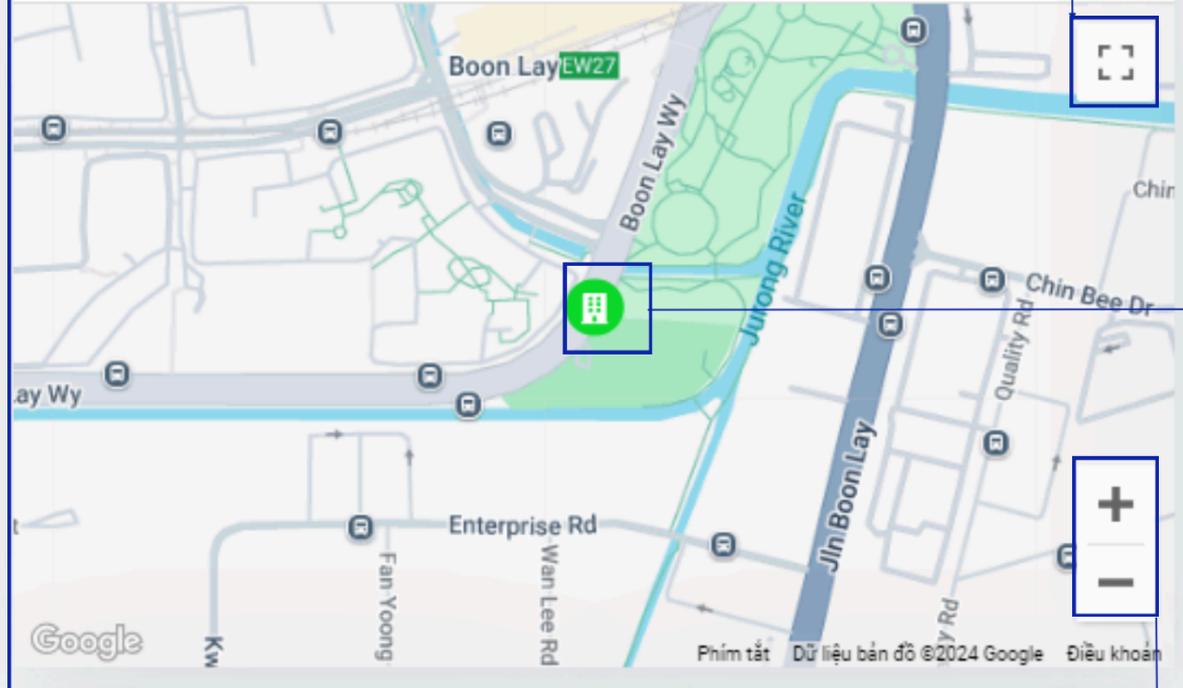
0 m³

(meters working)

Please view a map that includes an overview of the floor plan and the locations of individual households

View in full-screen

MAP VIEW



1. Choose this icon to view more locations of individual households

TOTAL WATER USAGE

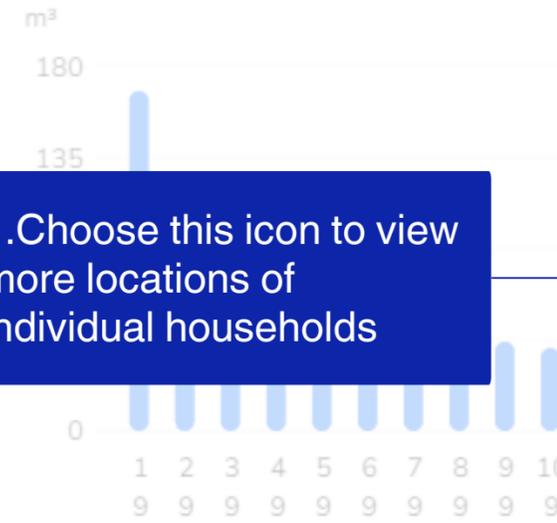
SMART METER STATUS

PREVIOUS BILLING CYCLE

5 / 5

Zoom in and out for detailed device locations within building

USAGE



5 SAFRA Jurong

Floor



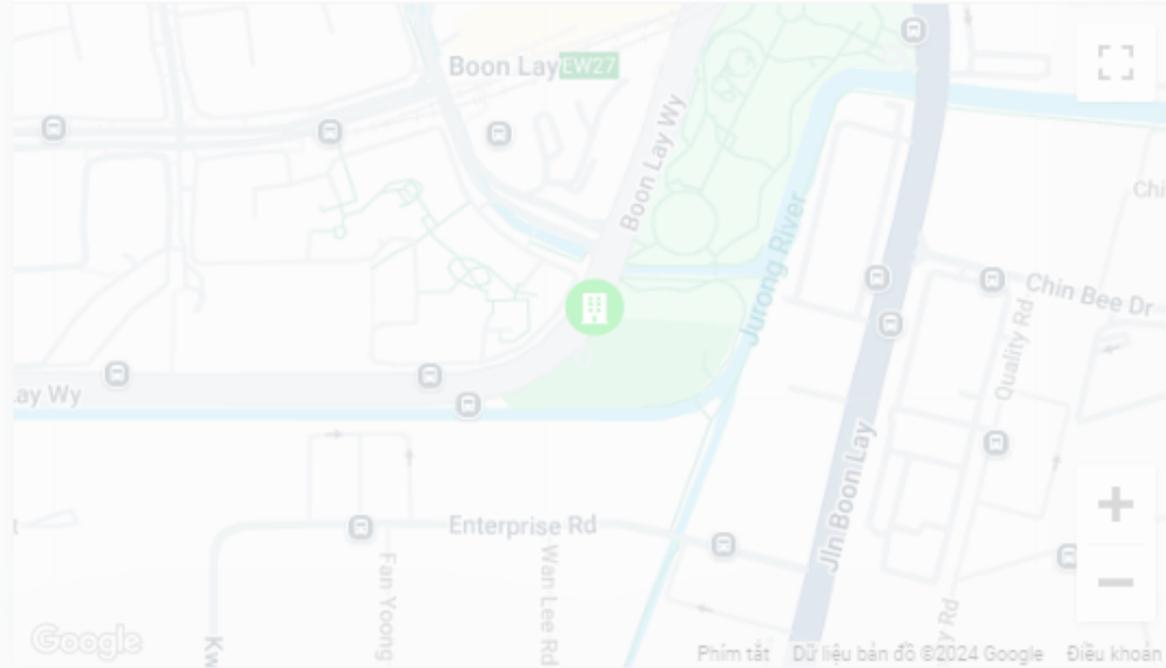
Total Floors: 1

> 4 Mil
1 - 2 Mil

2 - 4 Mil
< 500 Thous

2. To view detailed information about a particular apartment in your building, please select any of them. The MDMD will switch from the "Overview" page to "Households" page

MAP VIEW



TOTAL WATER USAGE

PREVIOUS BILLING CYCLE

0 m³

SMART METER STATUS

5 /5
(meters working)

Usage chart of specific service: water/ or electricity of the building

USAGE

1/9/2024 - 1/10/2024

Day

Month

Year

m³

180

135

90

45

0

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 1
9 10

03/09/2024
Usage: 65.560 m³

Water

1. Choose the specified time range or in day/month/year

2. To see detailed information about the amount of water used in the building, move the mouse to the column in the chart

TOTAL REVENUE

PREVIOUS BILLING CYCLE

SGD 588,838.12

TOTAL UNPAID BILLS IN LAST 6 MONTHS

Water: 200 Bills

Electricity: 198 Bills

TOTAL ELECTRICITY USAGE

PREVIOUS BILLING CYCLE

294,378 kWh

TOTAL WATER USAGE

PREVIOUS BILLING CYCLE

82.121 m³

SMART METER STATUS

128 /128

(meters working)

DETAIL REVENUE THIS MONTH

	ELECTRICITY	WATER
, , Hồ Chí Minh, Việt Nam		SGD 0.00
Ton Duc Thang, 1, Hồ Chí Minh, Việt Nam		SGD 0.00
123, mPower, Singapore, Singapore		
F1_AVALONBAY F1_AVALONBAY, 415 Macaulay Road, Kensington, Victoria, Australia, Australia	SGD 0.00	SGD 0.00
F1_CISCO F1_CISCO, 415 Macaulay Road, Kensington, Victoria, Australia, Australia		
F1_DANAHER F1_DANAHER, 415 Macaulay Road, Kensington, Victoria, Australia, Australia	SGD 0.00	
F1_OCCIDENTAL F1_OCCIDENTAL, 415 Macaulay Road, Kensington, Victoria, Australia, Australia		SGD 0.00
F1_ORACLE F1_ORACLE, 415 Macaulay Road, Kensington, Victoria, Australia, Australia	SGD 0.00	
F1_REGENERON F1_REGENERON, 415 Macaulay Road, Kensington, Victoria, Australia, Australia		
F1_SYSCO F1_SYSCO, 415 Macaulay Road, Kensington, Victoria, Australia, Australia		SGD 0.00

The building's quick report

- The building's detail revenue this month
- To access detailed information about each household, simply click on it

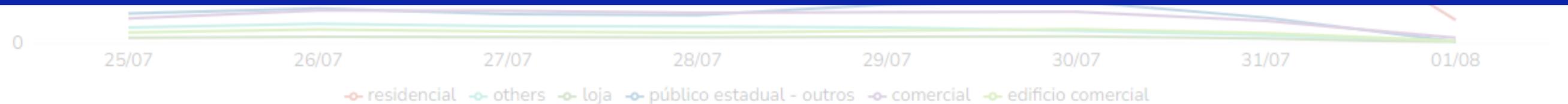
dashboard 1

Add

WATER CONSUMPTION BY HOUSEHOLD TYPES

02. DATA ANALYSIS

Meter Usages



TOP 3 HIGHEST

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month

m³
10.000

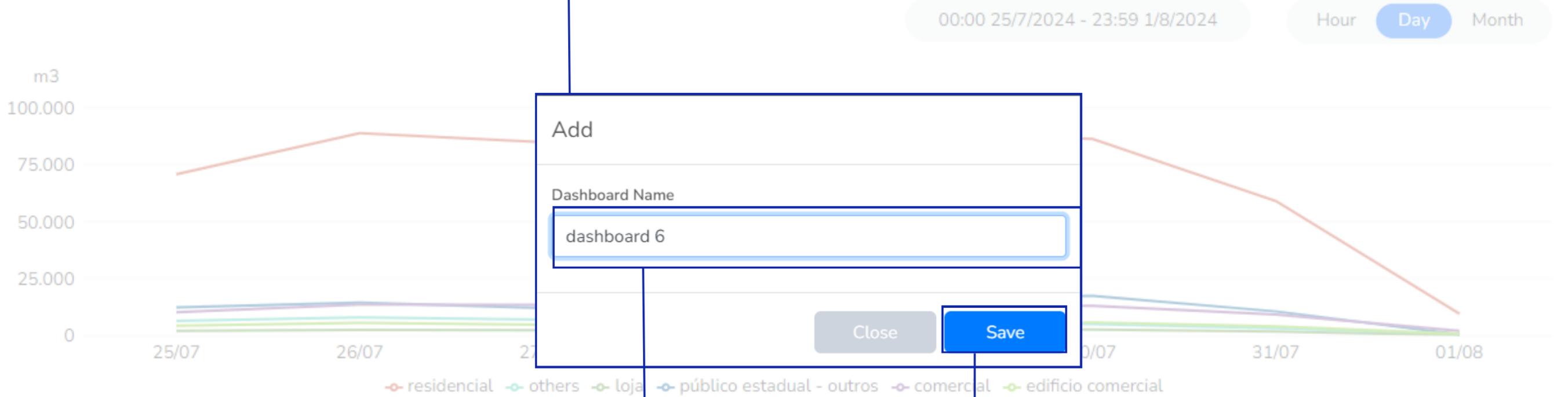
Log out

dashboard 1

Add

Click here to add a new dashboard

WATER CONSUMPTION BY HOUSEHOLD TYPES



Add

Dashboard Name

dashboard 6

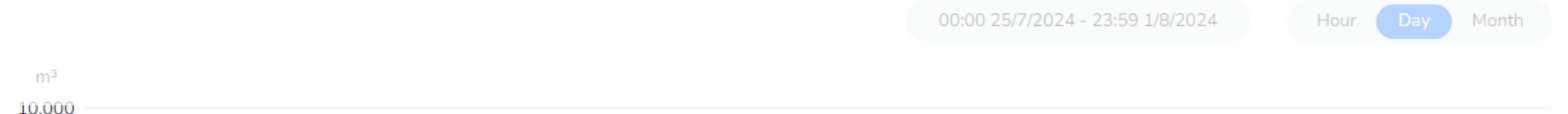
Close

Save

1. Enter the name of the new dashboard that you would like to create

2. Click "Save"

TOP 3 HIGHEST



00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month

Building Overview

Data Analysis

Households

Bills

Bill Calculations

Meters

Alert

Data Management

Household Owner

Device

Meter Usages

Log out

dashboard 1

Add

...

Several available actions on the created dashboard

WATER CONSUMPTION BY HOUSEHOLD TYPES

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month

Add

Title (*)

Data Type

Widget Type (*)

General

Data Type

+

Data Type (*)

Please Choose

Chart Type (*)

Please Choose

Unit

Cancel

Save

+ Add Widget

Edit Dashboard

Delete Dashboard

+ Reorganize Widget

Add Widget: Based on your analysis requirements, select relevant details in the provided fields. Then, click 'Save'.

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month

m³
10,000

...

Building Overview

Data Analysis

Households

Bills

Bill Calculations

Meters

Alert

Data Management

Household Owner

Device

Meter Usages

Log out

dashboard 1

Add



Several available actions on the created dashboard

WATER CONSUMPTION BY HOUSEHOLD TYPES

m³
100.000
75.000
50.000
25.000

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month

Edit

Dashboard Name

Usage distribution

Close

Save

+ Add Widget

✎ Edit Dashboard

🗑 Delete Dashboard

+ Reorganize Widget

Edit Dashboard: You can change the dashboard name. Then, click "Save".

TOP 3 HIGHEST

m³
10.000

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month



Building Overview

Data Analysis

Households

Bills

Bill Calculations

Meters

Alert

Data Management

Household Owner

Device

Meter Usages

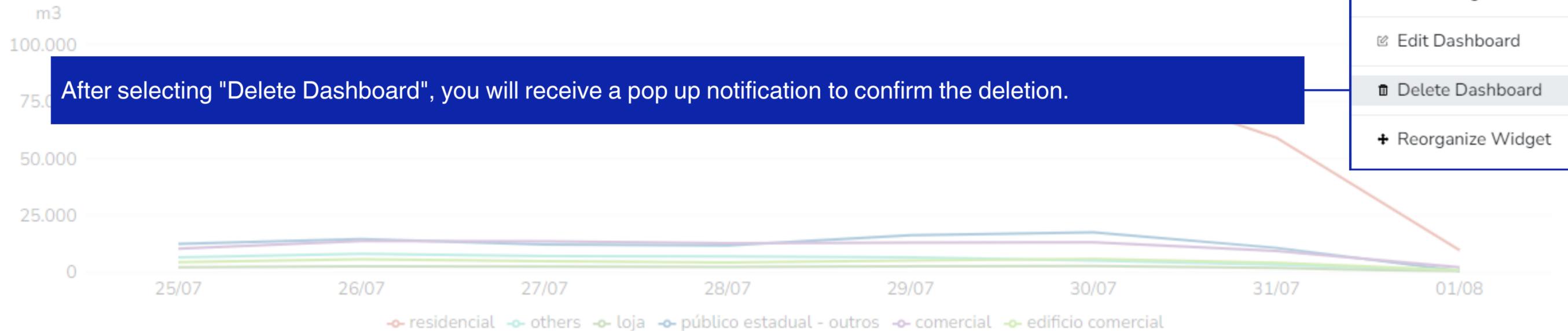
Log out

WATER CONSUMPTION BY HOUSEHOLD TYPES

Several available actions on the created dashboard

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month



After selecting "Delete Dashboard", you will receive a pop up notification to confirm the deletion.

- + Add Widget
- Edit Dashboard
- Delete Dashboard**
- + Reorganize Widget

TOP 3 HIGHEST

00:00 25/7/2024 - 23:59 1/8/2024

Hour Day Month



- Building Overview
- Data Analysis
- Households
- Bills
- Bill Calculations
- Meters
- Alert
- Data Management
- Household Owner
- Device
- Meter Usages

Log out

dashboard 1

Add

...

Several available actions on the created dashboard

WATER CONSUMPTION BY HOUSEHOLD TYPES

m³

100.000

75.000

50.000

25.000

0

25/07



USAGE BY FUNCTIONS

...

1. Choose this icon to reorganize your widget

00:00 25/2/2024 - 23:59 3/3/2024

utility hvac lift pump lighting wc pantry
garbage public



USAGE BY AREA

...

2. Click "Save"

00:00 25/2/2024 - 23:59 3/3/2024

Hour Day Month

mall office service apartment resident public

Save

Close

+ Add Widget

🔗 Edit Dashboard

🗑 Delete Dashboard

+ Reorganize Widget

TOP 3 HIGHEST



CONSUMPTION

...

00:00 25/2/2024 - 23:59 3/3/2024

m³

10.000

Hour

Day

Month

...

Building Overview

Data Analysis

Households

Bills

Bill Calculations

Meters

Alert

Data Management

Household Owner

Device

Meter Usages

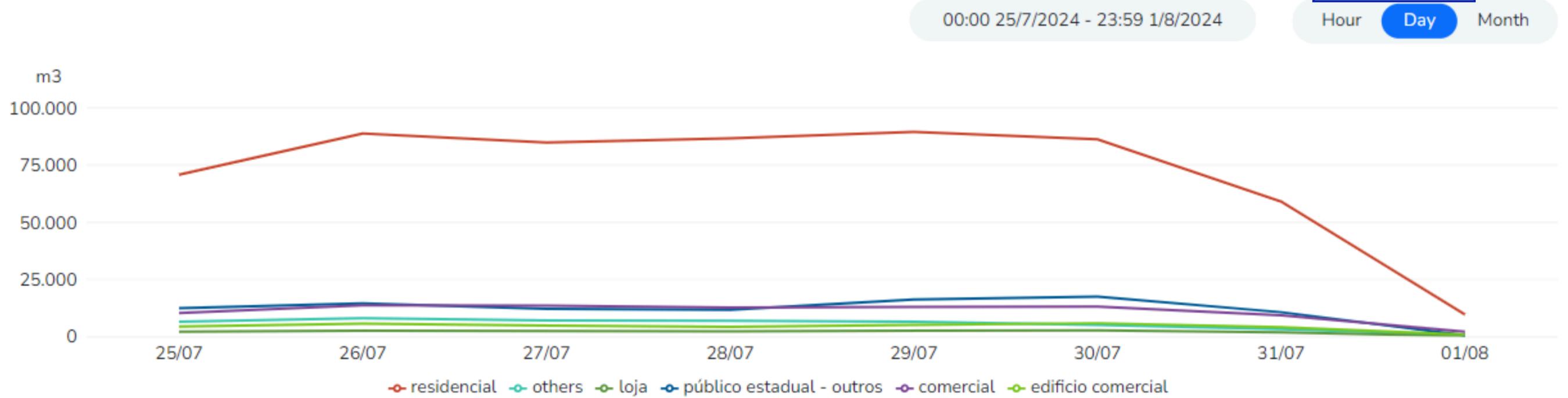
Log out

dashboard 1

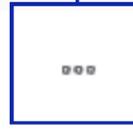
Add

Or you can click here to refresh, edit and delete widget on the available dashboard

WATER CONSUMPTION BY HOUSEHOLD TYPES



- Refresh Widget
- Edit Widget
- Delete Widget



TOP 3 HIGHEST



- Building Overview
- Data Analysis
- Households
- Bills
- Bill Calculations
- Meters
- Alert
- Data Management
- Household Owner
- Device
- Meter Usages

Log out

< 1 / 118 >

Service
Water

CUSTOMER NAME

EMAIL

PHONE

TYPE

USAGE

1867529044

1867529044

78 m³



03. HOUSEHOLDS

1867529159

1867529159

8 m³



1867529160

1867529160

27 m³



1867529166

1867529166

6 m³



1867529177

1867529177

52 m³



1867529180

1867529180

17 m³



< 1/1 >

Building

All

Service

All

+

CUSTOMER NAME

FLAT

BLOCK

TYPE

USAGE

Block A

In overview tab

Gym Top

2. Household Informations

Kidz Ar

Swimmi

Swimming Pool Top Up

< 1/1 >

. Singapore, Singapore

Overview Billing Services

HOUSEHOLD OWNER

Information

Customer ID: Block A

Name:

HOUSEHOLD

Information

Household Address

333 Boon Lay Way, Singapore 649848, Singapore, Singapore, Singapore

Household Type Normal

Household Code Block A

Bill Cycle Date 1

USAGE 1/9/2024 - 1/10/2024 Day Month Year Water Reset Usage

INVOICES

MONTH	TOTAL AMOUNT	STATUS
There is no data		

PAID UNPAID

To view detailed information for a household, click on the icon next to its name.

3. Usage Chart

4. Overview invoices

Building Overview

Data Analysis

Households

Bills

Bill Calculations

Meters

Alert

Data Management

Log out

1 / 118

Service
Water

CUSTOMER NAME

EMAIL

PHONE

TYPE

USAGE

1867529044

1867529044

1867529044
. Brazil

78 m³

Choose Billing tab to view all the billings of the chosen household

Overview Billing Services

Water



To view detailed information of a household, click on this icon corresponding to this household.

Download bills of the selected household

MONTH	OLD VALUE	NEW VALUE	CONSUMPTION	TOTAL USAGE	TOTAL BILL	STATUS
08/2024					BRL 65,024.84	Unpaid
Water	51,923 m ³	57,031 m ³	5,108 m ³	5,108 m ³	B	
07/2024					B	
Water	47,079 m ³	51,923 m ³	4,844 m ³	4,844 m ³	B	
06/2024					BRL 60,836.67	Unpaid
Water						
05/2024						
Water	37,317 m ³	42,300 m ³	4,983 m ³	4,983 m ³	BRL 63,433.59	
04/2024					BRL 67,774.52	Unpaid
Water	31,993 m ³	37,317 m ³	5,324 m ³	5,324 m ³	BRL 67,774.52	
03/2024					BRL 61,320.41	Unpaid
Water	27,176 m ³	31,993 m ³	4,817 m ³	4,817 m ³	BRL 61,320.41	
02/2024					BRL 198,244.30	Unpaid
Water	11,603 m ³	27,176 m ³	15,573 m ³	15,573 m ³	BRL 198,244.30	

To view and print the invoice, simply click on this icon.

68 m³

8 m³

27 m³

6 m³

52 m³

17 m³

Building Overview

Data Analysis

Households

Bills

Bill Calculations

Meters

Alert

Data Management

Log out

Choose Services tab to view all the services related details of that specific household

Services information overview: Water

- Water meter information
- Bill calculation of that specific household

Overview Billing **Services**

SERVICES INFORMATION

Water	General				
	Service Name: WATER Service Type: WATER Code: W				
	Meter Information (view details)				
	Meter Serial: 1867529044				
	Meter Model: GL Utilities Meter Brand: Grouplink				
	Last Update: 00:30 01/08/2024 Battery Percentage:				
	New Value: 57,110 m³ Installed Day: 04/01/2024				
	Require Date To Change: 04/01/2030				
	Bill Information				
	Bill Calculation Code: BILL_CALC Price Code: BILL_CALC				
	Description:				
	Formula				
	Ranges				
	<table><thead><tr><th>From</th><th>Price</th></tr></thead><tbody><tr><td>0</td><td>12.72</td></tr></tbody></table>	From	Price	0	12.72
From	Price				
0	12.72				

To view detailed information for a household, click on the icon next to its name.

USAGE

78 m³	
68 m³	
8 m³	
27 m³	
6 m³	
52 m³	
17 m³	

< 1 / 88 >

Service
Water ▾

status
Online ▾

Alert status
All ▾

Serial

DOWNLOAD

<input type="checkbox"/>	SERVICE	MODEL	SERIAL	OWNER NAME	POSITION	HOUSEHOLD CODE	STATUS	ALERT 24H	LAST VALUE	LAST UPDATED		
<input type="checkbox"/>	Water	GL Utilities	3617627236	3617627236		3617627236	●	0	85,884 m ³	01/08/2024 05:21:31		

06. METERS

<input type="checkbox"/>	Water	GL Utilities	1867530552	1867530552		1867530552	●	0	9,312 m ³	31/07/2024 21:26:55		
<input type="checkbox"/>	Water	GL Utilities	1867530324	1867530324		1867530324	●	0	43,026 m ³	01/08/2024 04:23:52		
<input type="checkbox"/>	Water	GL Utilities	3617627231	3617627231		3617627231	●	0	25,091 m ³	31/07/2024 23:48:21		
<input type="checkbox"/>	Water	GL Utilities	1867530556	1867530556		1867530556	●	1	18,184 m ³	01/08/2024 01:48:06		

< 1 / 88 >

- Building Overview
- Data Analysis
- Households
- Bills

Log out

Meters

Enter household code, apartment, owni

Download all meters information

Users can filter meters by their alert status, and search a particular meter serial number

DOWNLOAD

<input type="checkbox"/>	SERVICE	MODEL	SERIAL	OWNER NAME	POSITION	HOUSEHOLD CODE	STATUS	ALERT 24H	LAST VALUE	LAST UPDATED	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	3617627236	3617627236		3617627236	●	0	85,884 m ³	01/08/2024 05:21:31	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	1867651860	1867651860		1867651860	●	1	8,330 m ³	31/07/2024 22:34:27	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	1867530634	1867530634		1867530634	●	1	8,330 m ³	31/07/2024 22:34:27	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	1867529236	1867529236		1867529236	●	0	22,134 m ³	31/07/2024 16:41:27	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	3617629998	3617629998		3617629998	●	1	68,237 m ³	31/07/2024 22:06:26	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	3617629770	3617629770		3617629770	●	0	18,395 m ³	31/07/2024 22:41:26	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	1867530552	1867530552		1867530552	●	0	9,312 m ³	31/07/2024 21:26:55	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	1867530324	1867530324		1867530324	●	0	43,026 m ³	01/08/2024 04:23:52	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	3617627231	3617627231		3617627231	●	0	25,091 m ³	31/07/2024 23:48:21	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water	GL Utilities	1867530556	1867530556		1867530556	●	1	18,184 m ³	01/08/2024 01:48:06	<input type="checkbox"/>	<input type="checkbox"/>

From the left to the right, you can contact a support team, or download meter usage of the selected meter by ticking this checkbox.

- Building Overview
- Data Analysis
- Households
- Bills
- Bill Calculations
- Meters
- Alert
- Data Management

Log out

SERVICE MODI

Water GL U

Water GL Utilities

Meters

< Back

Meter Information

1.

Usage

Alert

Meter Information

Service	Serial	Type
Water	3617627236	smart
Model	Brand	Size
GL Utilities	Grouplink	
Household Code	Battery Percentage	Old Value
3617627236	%	85,730 m ³
New Value	Retrospective Usage	High Usage Percentage
86,087 m ³	0 m ³	0
Address	P Max	Panel Square
0	0	0
Panel Efficiency Factor	Calibration	Parent Meter
0	0	
Installed At	Install Code	Installed Value

Click to view specific meter details:
1. Meter Information



1 / 88

Service: Water | status: Online | Alert status: All | Serial: _____

DOWNLOAD

<input type="checkbox"/>	SERVICE	MODEL	SERIAL	OWNER NAME	POSITION	HOUSEHOLD CODE	STATUS	ALERT 24H	LAST VALUE	LAST UPDATED		
<input type="checkbox"/>	Water	GL Utilities	3617627236	3617627236		3617627236	●	0	25,091 m ³	01/08/2024 05:21:31		
<input type="checkbox"/>	Water	GL Utilities	3617627236	3617627236		3617627236	●	0	25,091 m ³	31/07/2024 23:48:21		
<input type="checkbox"/>	Water	GL Utilities	1867530324	1867530324		1867530324	●	0	43,026 m ³	01/08/2024 04:23:52		
<input type="checkbox"/>	Water	GL Utilities	3617627231	3617627231		3617627231	●	0	25,091 m ³	31/07/2024 23:48:21		
<input type="checkbox"/>	Water	GL Utilities	1867530556	1867530556		1867530556	●	1	18,184 m ³	01/08/2024 01:48:06		

Meters

Househ... | Enter household code, apartment, owner email, name

< Back

Meter Information | Meter Usage | **3. Alert**

30/06/2024 00:00 | 2/08/2024 23:59

Columns: status | First Occurrence ↑ | Last Occurrence

No rows

10 < >

Click to view specific meter details:
3. Alert

- Building Overview
- Data Analysis
- Households
- Bills
- Bill Calculations
- Meters**
- Alert
- Data Management

Log out

1 / 88

10

Service
Water >

1/8/2024 - 2/8/2024

status
All >

Severity
All >

Error Code
all >

DOWNLOAD ALL

COLUMNS

SERVICE | STATUS | SEVERITY | COMPONENT | DEVICE | HOUSEHOLD | ERROR COD

07. ALERT

Water	Todo	WARNING	METER	1867651410	REVERSE_FLC
Water	Todo	FATAL	METER	A22S012097	OFFLINE_MET
Water	Todo	WARNING	METER	3617629952	LEAKAGE_WA
Water	Todo	FATAL	METER	A21S550017	OFFLINE_MET
Water	Todo	FATAL	METER	C22DM0002367	OFFLINE_MET

Alert

Househ... ▾

Enter household code, apartment, owner email, name

Similarly, "Alert" page allows users to filter based on the severity level and error code

Download all alerts based on the selected time range

Service: Water ▾ | 2/8/2024 - 3/8/2024 | status: All ▾ | Severity: All ▾ | Error Code: all ▾

DOWNLOAD ALL

COLUMNS

You also can choose to hide, show some columns or all of them in "Alert" page and in the report which is downloaded from the MDMS

SERVICE	STATUS	SEVERITY	DEVICE	FIRST OCCURRENCE	LAST OCCURRENCE	ACTION
Water	Todo	FATAL	E22DM2904029	01:20 26/02/2024	00:00 02/08/2024	

Click to view specific alert details

Click to edit alert status/severity

Alert

Service: Water ▾ | Status (*): Todo ▾ | Severity (*): SEVERITY_FATAL ▾

Error Code (*): OFFLINE_METER | Device: E22DM2904029 | Message: | Ticket Id: |

First Occurrence: 26/02/2024 01:20 | Last Occurrence: 2/08/2024 00:00

Back | Edit

Alert

Service: Water ▾ | Status (*): **Todo** ▾ | Severity (*): SEVERITY_FATAL ▾ | Component (*): METER

Error Code (*): OFFLINE_METER | First Occurrence: 26/02/2024 01:20

SEVERITY_FATAL

Save

Meter Data Management System (MDMS)

THANK YOU

2024

Confidential