

Power meter monitoring web application Documentation EN Blueprint Blueprint

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Revision History

Date	Version	File name	Details
19/Aug/2024	R1	Power meter monitoring web application Documentation EN Blueprint	First edition
17/Sep/2024	R2	Power meter monitoring web application Documentation EN Blueprint	Second edition

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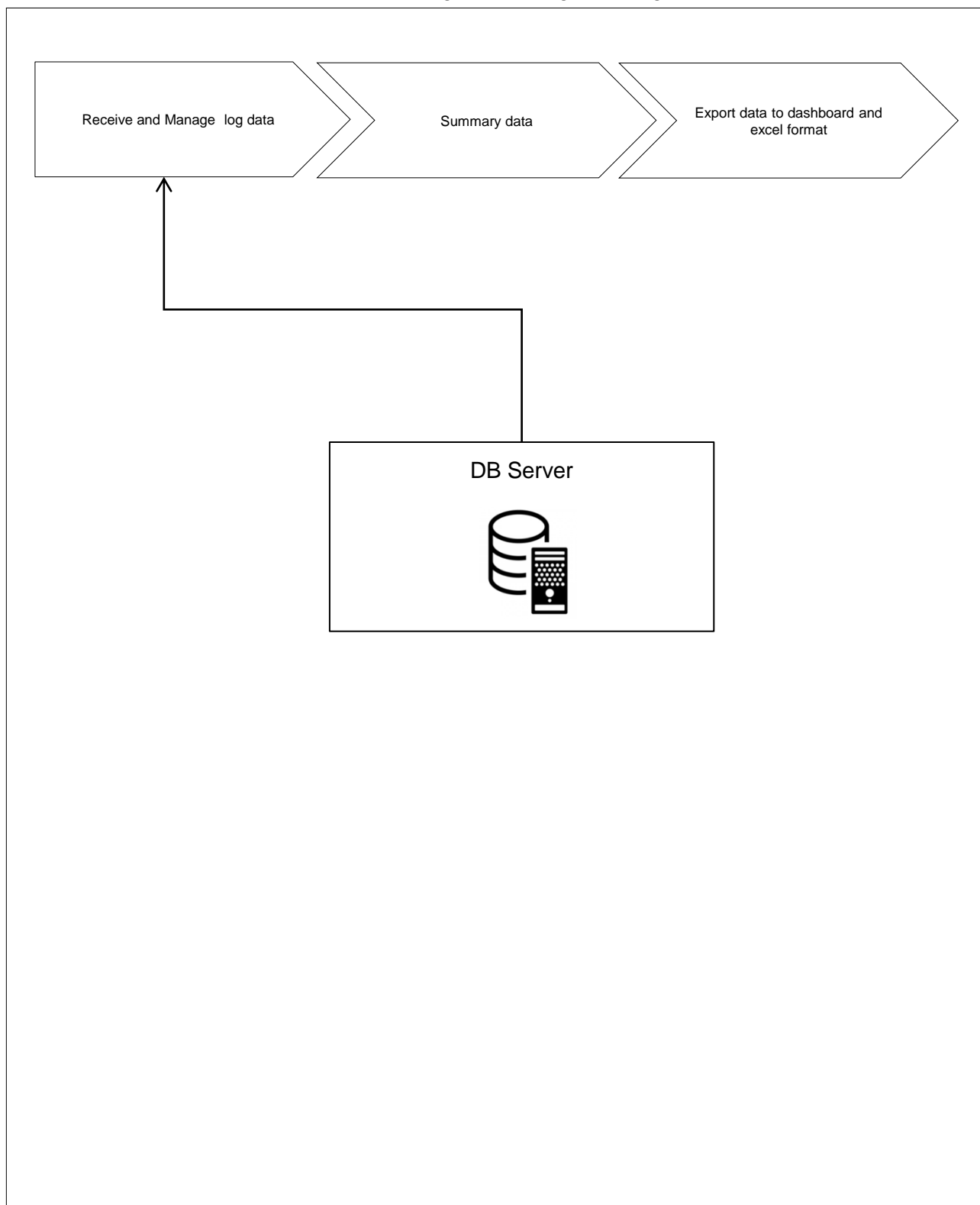
1. Overview

Introduced Power meter monitoring web application to OTICS.
The system specifications for introduction are described in this document.

2. Overall configuration diagram

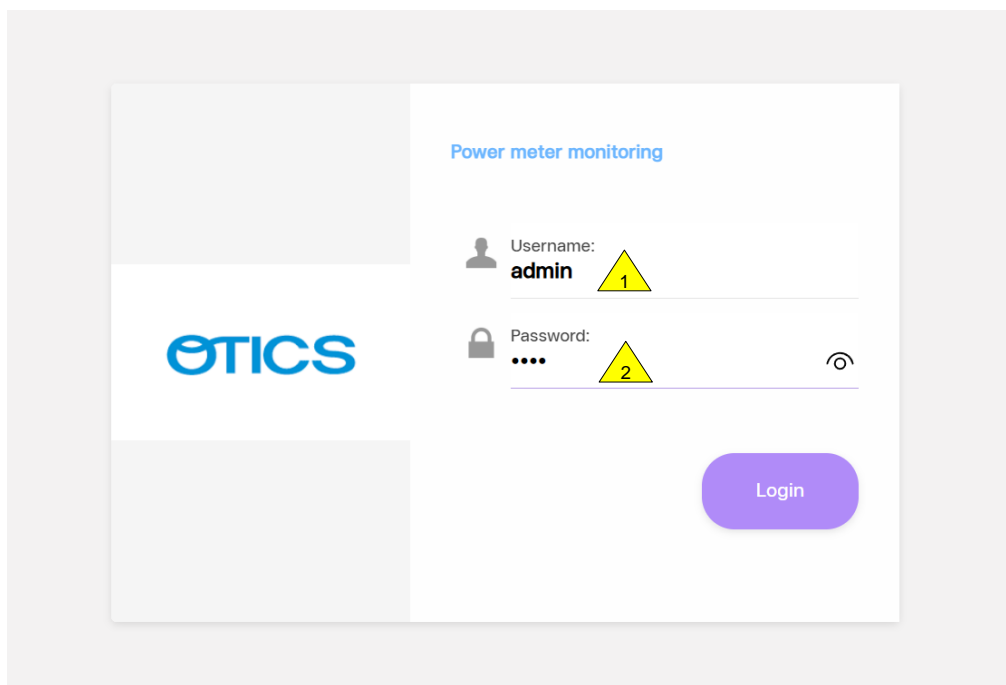
Represents a configuration diagram of the Power meter monitoring web application system. It is a configuration image of documents.

Overall configuration diagram image



3. Document image

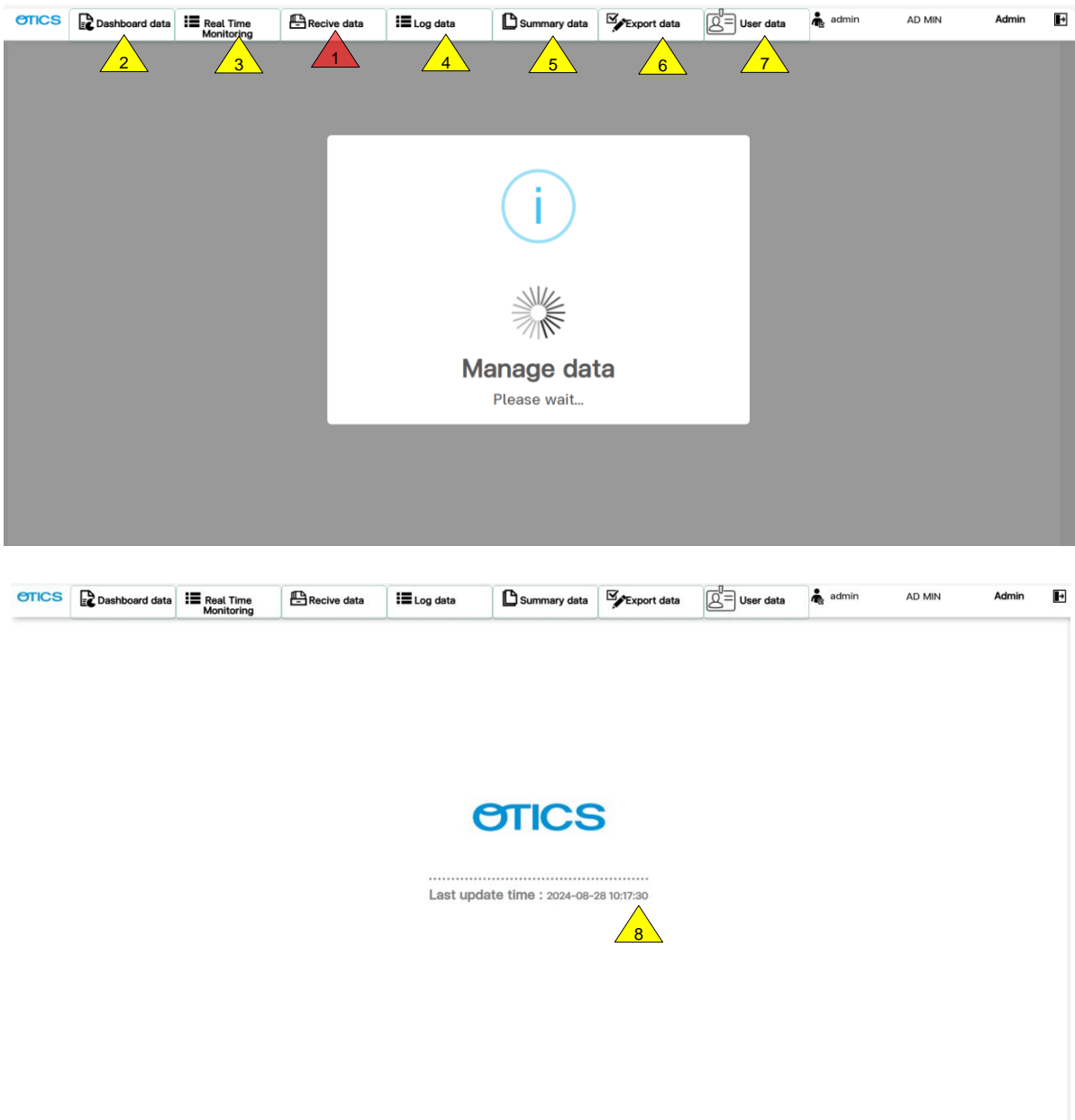
3-1. Login



1. The first login is the default username 'admin'
2. The first login is the default password '1234'

3. Document image

3-2. Receive and Manage log data



1. Menu Receive data.
2. Show cost summary information on dashboard.
3. Show Real time monitoring application.
4. Shows recorded data in a 60 minute period section.
5. Show cost summary information divided by month.
6. Show report and Export to excel format.
7. Create new user.
8. Show last time have been receive data.

3. Document image

3-3. Log data

ETCS

Dashboard data

Recive data

Log data

Summary data

Export data

User data

admin

AD MIN

Admin

Log data

Date2024080108:00

To

Date2024083023:30

Show Data

No	Name	Date	Time	Peak(KWh)	On Peak_Rate/Unit	Off Peak(KWh)	Off Peak_Rate/Unit	Off Peak_Price(Baht)	Holidays (KWh)
1	LP-F1	2024.07.31	14:00:00	315.78	4.5	1,421.01	0.00	0	0.00
2	LP-F2	2024.07.31	14:00:00	282.64	4.5	1,271.88	0.00	0	0.00
3	LP-F1	2024.07.31	13:00:00	311.16	4.5	1,400.22	0.00	0	0.00
4	LP-F2	2024.07.31	13:00:00	294.69	4.5	1,326.11	0.00	0	0.00
5	LP-F1	2024.07.31	12:00:00	312.66	4.5	1,406.97	0.00	0	0.00
6	LP-F2	2024.07.31	12:00:00	294.20	4.5	1,323.90	0.00	0	0.00
7	LP-F1	2024.07.31	11:00:00	316.77	4.5	1,425.46	0.00	0	0.00
8	LP-F2	2024.07.31	11:00:00	269.36	4.5	1,212.12	0.00	0	0.00
9	LP-F1	2024.07.31	10:00:00	294.98	4.5	1,327.41	0.00	0	0.00
10	LP-F2	2024.07.31	10:00:00	314.55	4.5	1,415.48	0.00	0	0.00
11	LP-F1	2024.07.31	09:00:00	294.02	4.5	1,323.09	0.00	0	0.00
12	LP-F2	2024.07.31	09:00:00	271.02	4.5	1,219.59	0.00	0	0.00
13	LP-F1	2024.07.31	08:00:00	0.00	0	0.00	300.58	3.5	1,052.03
14	LP-F2	2024.07.31	08:00:00	320.47	4.5	1,442.12	0.00	0	0.00

1. Menu Log data.

2. Specify start date and time.

3. Specify the end date and time.

4. Calculate the value by subtracting the current hour's value from the previous hour's value.

5. The value is calculated by subtracting the current hour's value from the previous hour's value and multiplying by the cost rate.

3. Document image

3-4. Summary data

OTICS

Dashboard data

Recive data

Log data

Summary data

Export data

User data

adminAD MINAdmin

Summary data

Date2024070100:00

To

Date2024073123:59

Show Data

Main Box : 3AE 4 W 4007230 V (All Factory)

No	MDB Name	Day(Kwh)	Day(Baht)	Night(Kwh)	Night(Baht)	Holiday(Kwh)	Holiday(Baht)	All(Kwh)	All(Baht)
1	MP-RF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	LP-F1	190,854.53	771,079.41	0.00	0.00	28,629.62	115,488.48	219,484.15	886,567.89
3	LP-F2	221,044.84	994,701.20	0.00	0.00	0.00	0.00	221,044.84	994,701.20
4	MP-COM-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	MP-COM-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	ACP-HLA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	ACP-OF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	LP-OF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	ACP-CT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	AP-OF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	GUARD-HOUSE1(LP-GH1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	GUARD-HOUSE2(LP-GH2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	RO-PLANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		411,899.37	1,765,780.61	0.00	0.00	28,629.62	115,488.48	440,528.99	1,881,269.09

1. Menu Summary data.
2. Specify start date and time.
3. Specify the end date and time.

3. Document image

3-5. Export data

OTICS

Dashboard data

Recive data

Log data

Summary data

Export data

User data

admin

AD MIN

Admin

Export data

Date2024070100:00

To

Date2024083102:59

Show Data

Export Data

1 of 1

Find | Next

Department

Maintenance

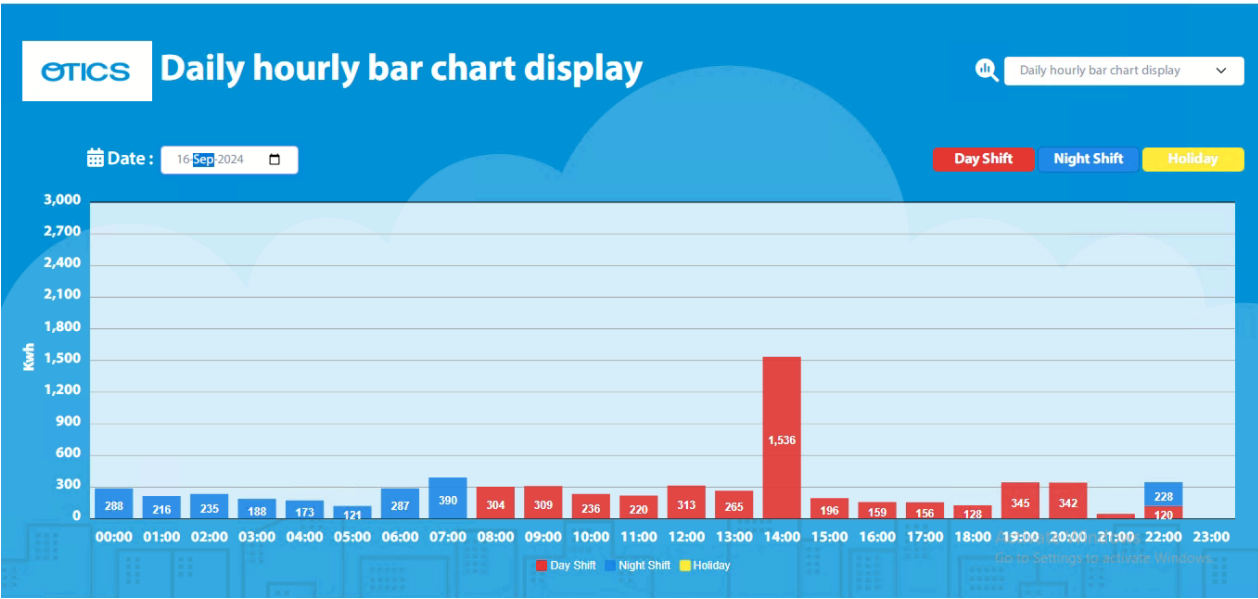
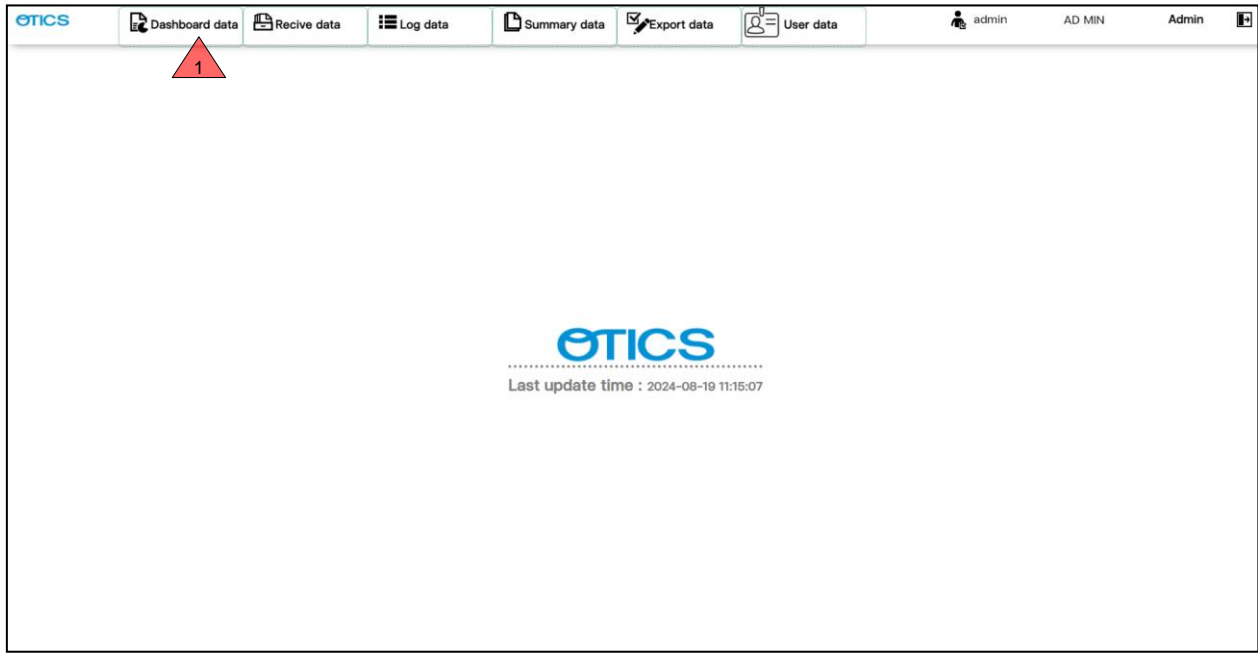
MDB 1 3E 4 W 400/230 V (All Factory)

No.	MDB Name	Jan									
		Day Kwh	Day Baht	Night Kwh	Night Baht	Holiday Kwh	Holiday Baht	All Kwh	All Baht	Day Kwh	Day Baht
1	MP-RF										
2	LP-F1										
3	LP-F2										
4	MP-COM-1										
5	MP-COM-2										
6	ACP-HLA										
7	ACP-OF										
8	LP-OF										
9	ACP-CT										
10	AP-OF										
11	GUARD-HOUSE1(LP.GH1)										

1. Menu Export data.
2. Specify start date and time.
3. Specify the end date and time.
4. Generate report.
5. Display summary data in Excel format.

3. Document image

3-6. Dashboard data



1. When you click on the Dashboard menu, there will be a screen showing graphs.

3. Document image

3-7. User data

The screenshot shows the ETICS User data form. The top navigation bar includes the ETICS logo and several menu items: Dashboard data, Recive data, Log data, Summary data, Export data, and User data (highlighted with a red triangle labeled 1). The top right shows the user 'admin' with roles 'AD MIN' and 'Admin', and a logout icon (yellow triangle labeled 5). The form itself has a large icon of a person with a document on the left. The right side contains input fields for Username, Password, Confirm-Password, Name, Surname, Position, and Email. Below these is an 'Active status' toggle switch (yellow triangle labeled 2). At the bottom are 'Save' (purple button, yellow triangle labeled 3) and 'Cancel' (red button, yellow triangle labeled 4) buttons.

1. Menu User data.
2. Set status as active or inactive
3. Save or edit user profile.
4. Clear items in a form.
5. Logout.

3. Document image

3-8. Connect to server

```
File Edit View

<?xml version="1.0"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  http://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
  <configSections>
    <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwlink/?LinkId=237468 -->
    <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework,
    Version=5.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false" />
  </configSections>
  <connectionStrings>
    <add name="ConnectionString" connectionString="Data Source=PC-SERVER\SQLEXPRESS;Initial Catalog=PowerMeter;Persist
    Security Info=True;User ID=sa;Password=piriy@123" providerName="System.Data.SqlClient"/>
  </connectionStrings>
  <system.web>

    <httpHandlers>
      <add path="Reserved.ReportViewerWebControl.axd" verb="*" type="Microsoft.Reporting.WebForms.HttpHandler,
      Microsoft.Reporting.WebForms, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91"
      validate="false" />
    </httpHandlers>
    <compilation targetFramework="4.5">
      <buildProviders>
        <add extension=".rdlc" type="Microsoft.Reporting.RdlBuildProvider, Microsoft.Reporting.WebForms, Version=
        11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91" />
      </buildProviders>
      <assemblies>
        <add assembly="Microsoft.Reporting.WebForms, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845DCD8080CC91"
```

1. ConnectionString: It 's point to PowerMeter database. (file name is Web.config)

3. Document image

3-9. Rate

OTICS

Dashboard data

Real Time Monitoring

Recive data

Log data

Rate

Export data

User data

admin

AD MIN

Admin

Rate data

2

Date 2024 09 01 08:00 To

3

Date 2024 09 30 23:59

Rate list

7

8

View Data

6

Save Data

No	Name	Date	On Peak Price(Baht)	Off Peak Price(Baht)	Holidays Price(Baht)
1	MDB-1	2024-09-01 08:00 to 2024-09-30	<div>4</div> 4.5	3.7	<div>5</div> 2.5
2	MP-RF	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
3	LP-F1	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
4	LP-F2	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
5	MP-COM-1	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
6	MP-COM-2	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
7	ACP-HLA	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
8	ACP-OF	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
9	LP-OF	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
10	ACP-CT	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
11	AP-OF	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
12	GUARD-HOUSE1(LP-GH1)	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
13	GUARD-HOUSE2(LP-GH2)	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5
14	RO-PLANT	2024-09-01 08:00 to 2024-09-30	4.5	3.7	2.5

1. Menu Rate.

2. Specify start date and time to define rate.

3. Specify the end date and time to define rate.

4. Specify a value in the MDB-1 or MDB-2 field. All parameters will display the same value.

5. Values can be edited separately by parameter.

6. Save data

7. Select an item to view past log rate.

8. View data

Remark : When the specified period has passed The system will use the latest rate specified for calculation.

4. Q&A

5. Sign off

We hereby acknowledge and agree the above-mentioned blueprint requirements.
Any changes required after the sign off for this blueprint will be addressed through the change request process.

OTICS(Thailand)Co., Ltd.

Sign: _____

Name:

Title:

Date:

TOMAS TECH CO.,LTD.

Sign: _____

Name:

Title:

Date:

END OF BLUEPRINT##