EMS MAC-CLOUD
ENERGY MANAGEMENT SYSTEM

connect ME

What is EMS?

- Customer/User can control their energy consumption through continuous monitoring of energy flow with the help of dedicated EMS Software – MAC-CLOUD

- Monitors different areas which consumes more Energy – so that Customer can take preventive and precautionary measures

- MAC-CLOUD – Collect, Store and Analyze the data collected from different monitoring devices to manage the electrical loads

Why EMS?

- Scarcity of Energy or Escalated Cost of Available Energy impacts profitability
- Alternate Resources like generators/inverters have their own costs and supply limitations
- EMS is essential to optimize the usage of energy and to keep cost under control

Why MAC-CLOUD?

MAC-CLOUD is the flagship product of **ConnectMe**. It works on a highly successful hybrid model to offer and deliver our services to customers. Our local infrastructure coupled with multi location Network Operating Centre (NOC), proprietary software developed by our own in-house team, strong third party partnership to meet hardware requirements and a highly customised SLA are all independently strong components making us a truly reliable, state of art and scalable solution provider to manage your services.

ConnectMe leverages its regional experience and reputation to provide customers with cost effective, customized, comprehensive and professional services. We combine best-in-class technologies with industry-leading expertise to help you achieve you corporate objectives and exceed it.

The first step to 'CONTROL'…

is to 'MONITOR'…

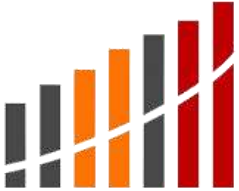
How Can MAC-CLOUD Help?

- Gives information about Feeder wise Consumption data
- Gives clear picture about Energy consumption involved in each Feeder
- Helps to MONITOR and OPTIMIZE electrical parameters to achieve Cost Reduction
- Helps Future Planning based on Consumption patterns from MAC-CLOUD System

Unique Advantages of MAC-CLOUD

- Tailoring of the Product can be done to suit different Customers
- Complete Comprehensive Solution can be provided (On-premises, cloud based, end-to-end managed solution, etc.)
- Integration with any third-party meter can be done
- Simple Data backup and Data restoration
- Everything is field Programmable

Why MAC-CLOUD?



Maximum No. of Reports

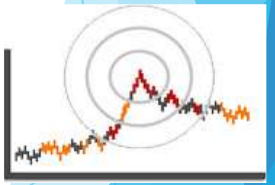
Maximum No. of Charts

Shift Energy, TOD, ABT, Distribution Loss Reports

Real-time Monitoring (1 minute)

Customization

On-time & Quick Response on Queries

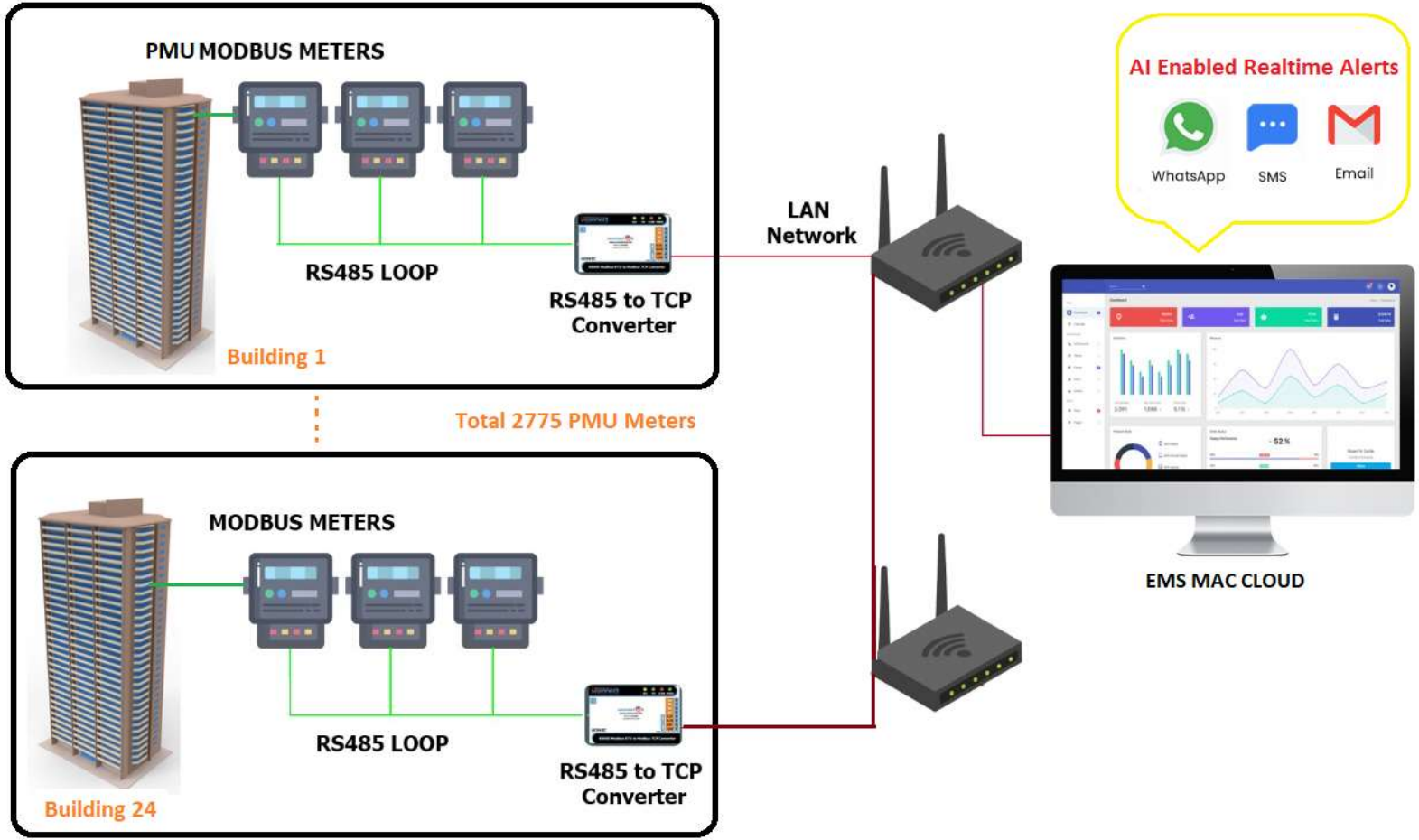


Expert-voice & Analysis (auto-generated)

EMS Process

Process Area / Plant Area / Equipment
Data Collection
Monitoring and Analysing
Customized Reports
Decision Making
EMS PROCESS

SYSTEM ARCHITECTURE



MAC-CLOUD

- Dashboard
- Utility
- Network Hierarchy
- Live
- Engine
- Settings

DASHBOARDS

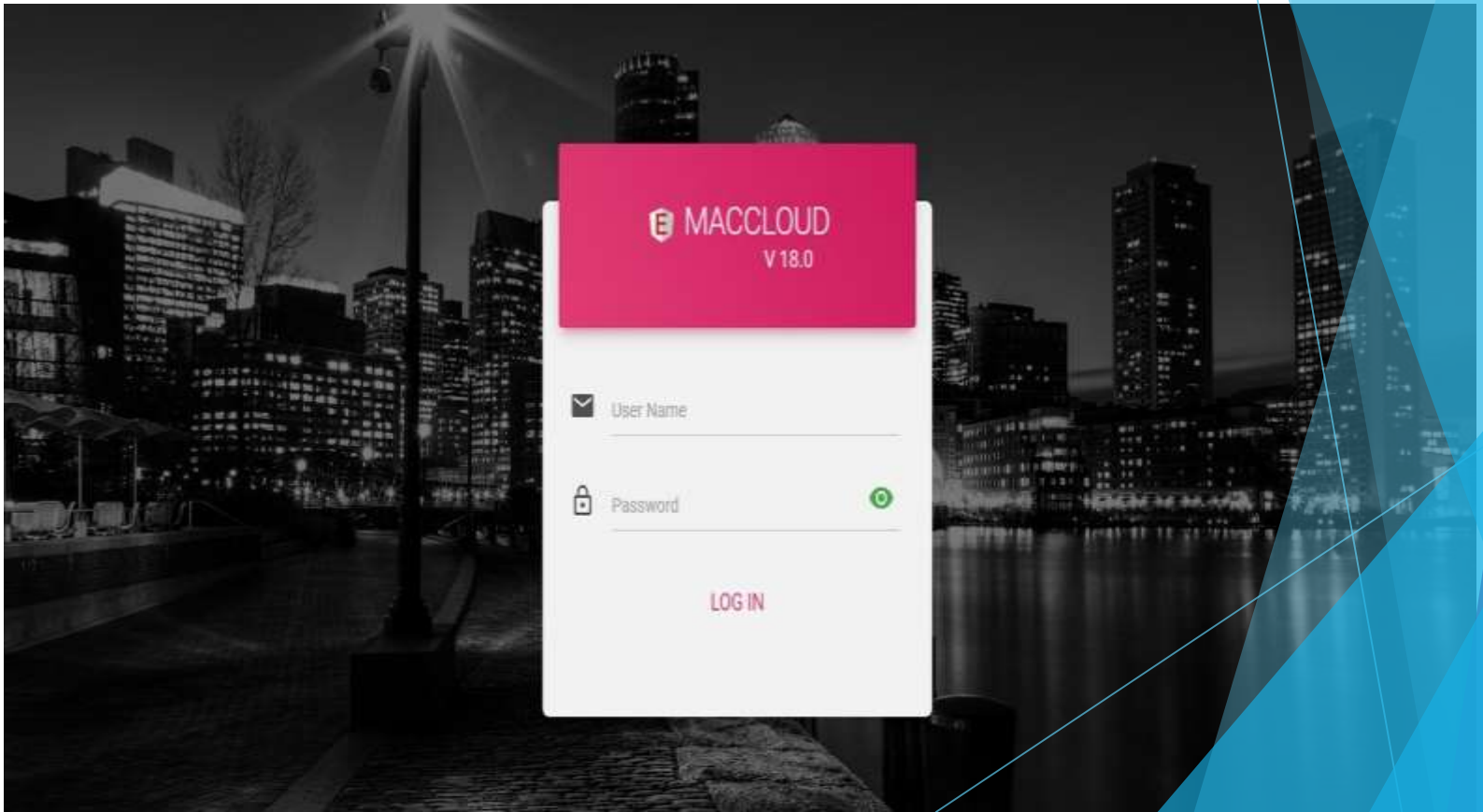
DIFFERENT DASHBOARDS FOR ANALYSIS & EASY DECISION

- Dashboards for CEO
- Dashboards for CFO
- Dashboards for GM
- Dashboards for Facilities Manager

REAL-TIME REPORTS

- Analytical Trends
- Consumption Vs Cost
- Alarms
- Equipment Status (ON/OFF)
- Demand based Load Shedding
- Daily, Weekly, and Monthly Reports

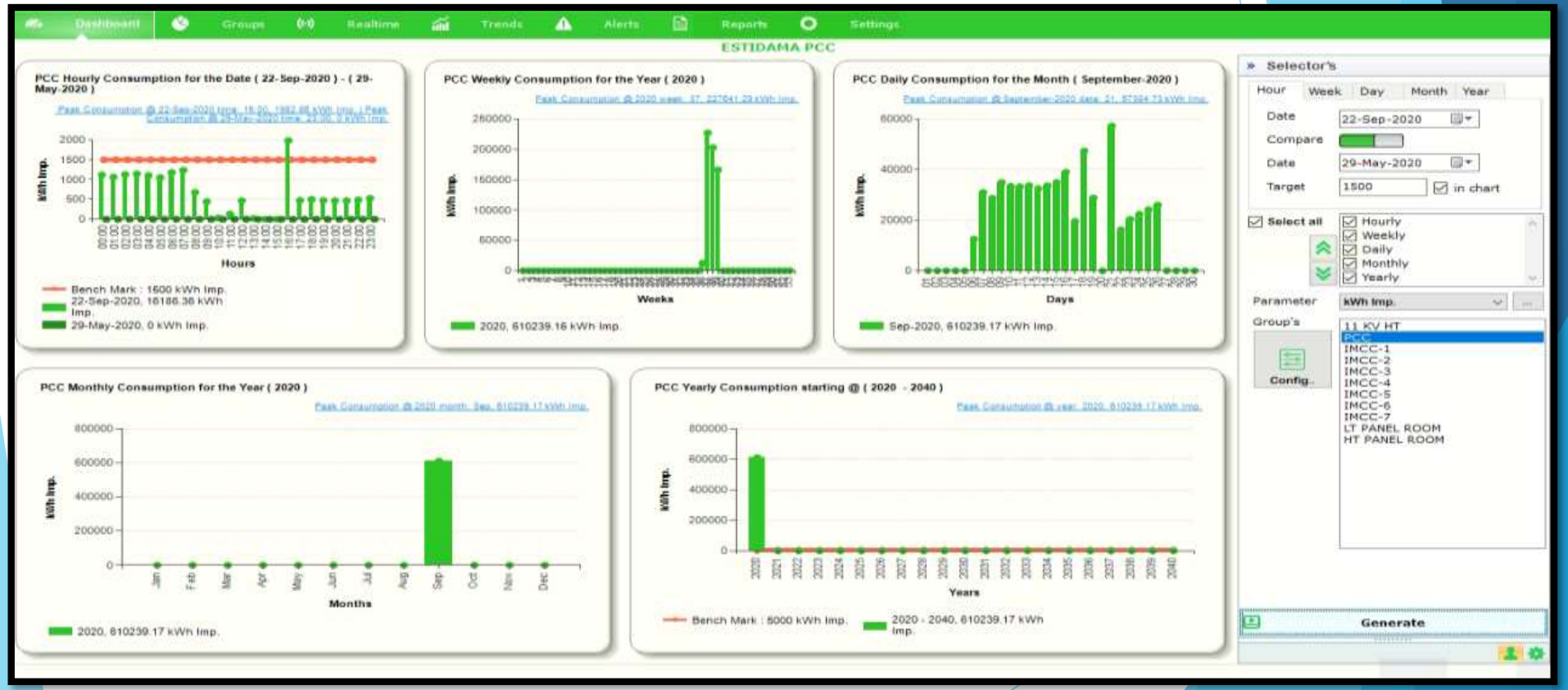
Log In



Dashboard

MACCLOUD
Dashboard
Consumption Vs Cost
Consum. vs Production
Calendar View
Main Incomer
Aerial Map
Window
Node History
Distribution Loss
Production Entry
DASHBOARD
UTILITY
NETWORK HIERARCHY
LIVE
ENGINE
SETTINGS
Node
609.2 kWh
753.89 kWh
681.54 kWh
₹ 2,741.40
₹ 3,392.51
₹ 3,066.93
22,782.43 kWh
45,613.42 kWh
34,197.93 kWh
₹ 1,02,520.94
₹ 2,05,260.39
₹ 1,53,890.69
Total Consumption 13,980.62
Last 24 hours Energy Consumption
Total kWh 609.2
Benchmark for Last 31 Days
Yesterday Peak,Non-Peak,Night Consumption
Total kWh 167.58
Night
Peak

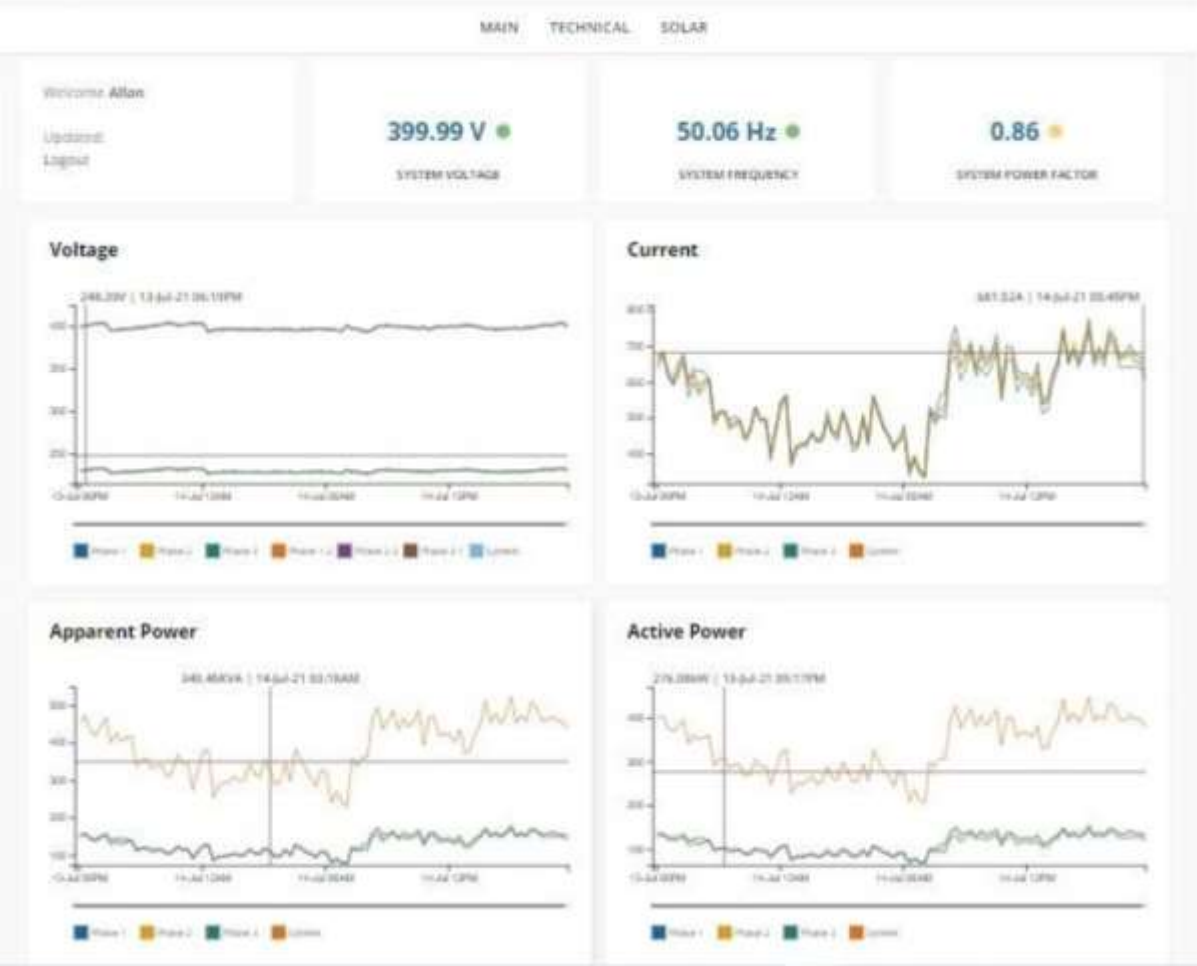
Dashboard


Dashboard
Groups
Realtime
Trends
Alerts
Reports
Settings
ESTIDAMA PCC
PCC Hourly Consumption for the Date (22-Sep-2020) - (29-May-2020)
kWh Imp.
Hours
Bench Mark : 1500 kWh Imp.
22-Sep-2020, 16186.36 kWh Imp.
29-May-2020, 0 kWh Imp.
PCC Weekly Consumption for the Year (2020)
Weeks
2020, 610239.16 kWh Imp.
PCC Daily Consumption for the Month (September-2020)
Days
Sep-2020, 610239.17 kWh Imp.
PCC Monthly Consumption for the Year (2020)
Months
2020, 610239.17 kWh Imp.
PCC Yearly Consumption starting @ (2020 - 2040)
Years
Bench Mark : 5000 kWh Imp.
2020 - 2040, 610239.17 kWh Imp.
Selector's
Hour
Week
Day
Month
Year
Date
22-Sep-2020
Compare
Date
29-May-2020
Target
1500
in chart
Select all
Hourly
Weekly
Daily
Monthly
Yearly
Parameter
kWh Imp.
Group's
Config..
11 KV HT
PCC
IMCC-1
IMCC-2
IMCC-3
IMCC-4
IMCC-5
IMCC-6
IMCC-7
LT PANEL ROOM
HT PANEL ROOM
Generate

Dashboard

Welcome Allan
Updated: 05:48PM 14-Jul-21
Logout
7,960 kWh
3,542 AED
33%
52%
48%
Consumption Chart
Day
Week
Month
6 Months
Year
52,351 kWh
23,296 AED
24 tons CO2
Consumption Heatmap
Daily Consumption Averages
July
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
ALL

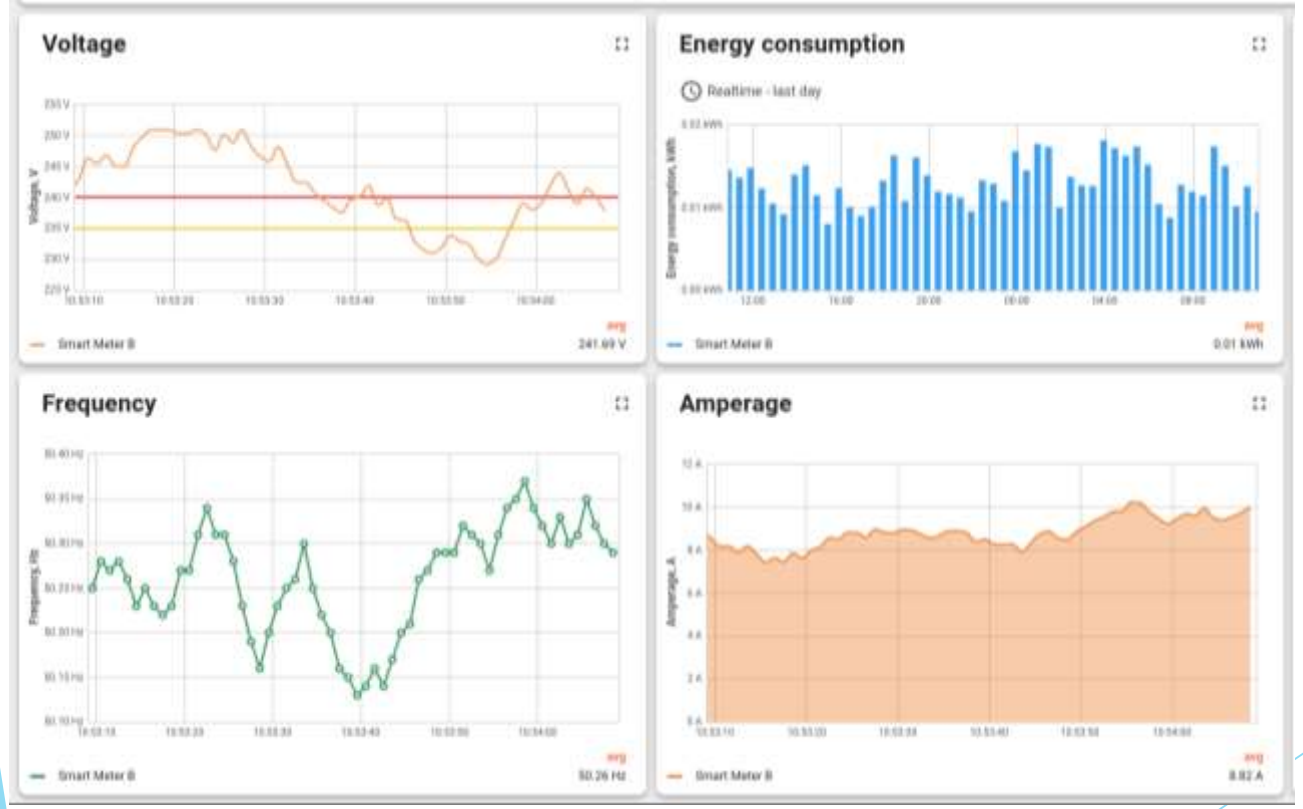
Dashboard


MAIN
TECHNICAL
SOLAR
Welcome Allan
Logout
399.99 V
SYSTEM VOLTAGE
50.06 Hz
SYSTEM FREQUENCY
0.86
SYSTEM POWER FACTOR
Voltage
Current
Apparent Power
Active Power

Dashboard

MAIN
TECHNICAL
SOLAR
Welcome Allan
Logout
399.99 V
SYSTEM VOLTAGE
50.06 Hz
SYSTEM FREQUENCY
0.86
SYSTEM POWER FACTOR
Power Factor
Frequency
Total Harmonic Distortion - Voltage
Total Harmonic Distortion - Current

Dashboard

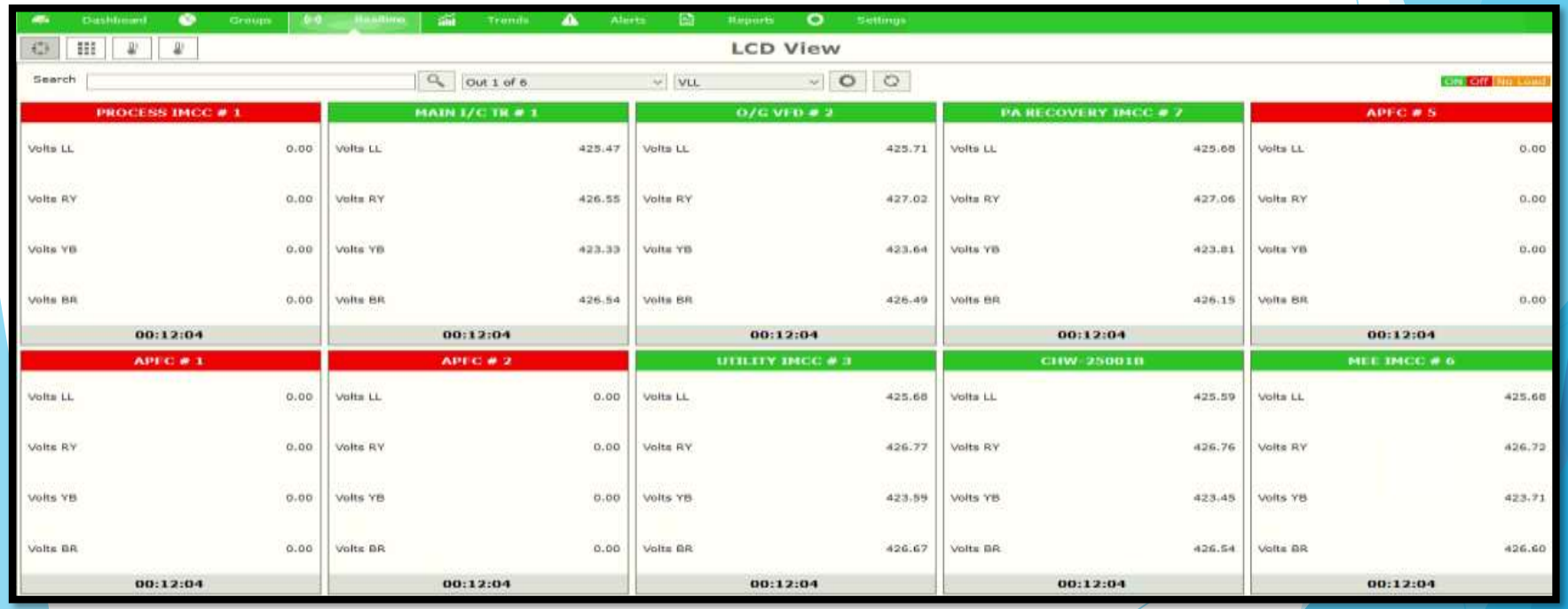

Voltage
Smart Meter B
241.69 V
Energy consumption
Realtime - last day
Smart Meter B
0.01 kWh
Frequency
Smart Meter B
50.26 Hz
Amperage
Smart Meter B
8.82 A

Realtime Data Dashboard Table view

MeterId	MeterName	Status	W Total	P.F	Amps R	Amps Y	Amps B	Volts RY	Vol
1	O/G TO IMCC-1 PROC...	ON	0.00	0.000	0.00	0.00	0.00	435.94	432.88
2	TRANSFORMER INCOM...	ON	182.51	0.809	311.90	285.70	300.94	435.48	432.59
3	O/G TO VFD - 2	ON	0.52	0.449	1.62	1.03	1.95	435.93	433.08
4	O/G TO IMCC - 7 (PA ...	ON	0.24	0.419	1.14	0.00	1.14	435.95	433.27
5	O/G TO APFC - 5	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00
6	O/G TO APFC - 1	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00
7	O/G TO APFC - 2	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00
8	O/G TO IMCC - 3 (UTI...	ON	179.37	0.818	303.44	278.13	290.91	435.88	433.32
9	O/G TO CHILLED WAT...	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00
10	O/G TO IMCC - 6 (MEE)	ON	0.00	0.000	0.00	0.00	0.00	436.25	433.17
11	TRANSFORMER INCOM...	ON	27.91	0.733	52.77	47.51	50.84	437.09	434.11
12	O/G TO CHILLED WAT...	ON	1.10	0.860	2.55	2.53	0.00	437.32	434.63
13	MEE PANEL	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00
14	O/G TO IMCC - 5	ON	26.61	0.727	50.39	45.28	49.53	437.81	434.52
15	O/G TO IMCC - 2 PRO...	ON	0.00	0.000	0.00	0.00	0.00	437.60	434.32
16	O/G TO IMCC - 4 (UTI...	ON	0.00	0.000	0.00	0.00	0.00	437.03	434.08
17	O/G TO APFC - 3	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00
18	O/G TO APFC - 4	OFF	0.00	0.000	0.00	0.00	0.00	0.00	0.00

- The real time values of the nodes will be updated here.

Realtime Data Dashboard LCD view



Dashboard Features

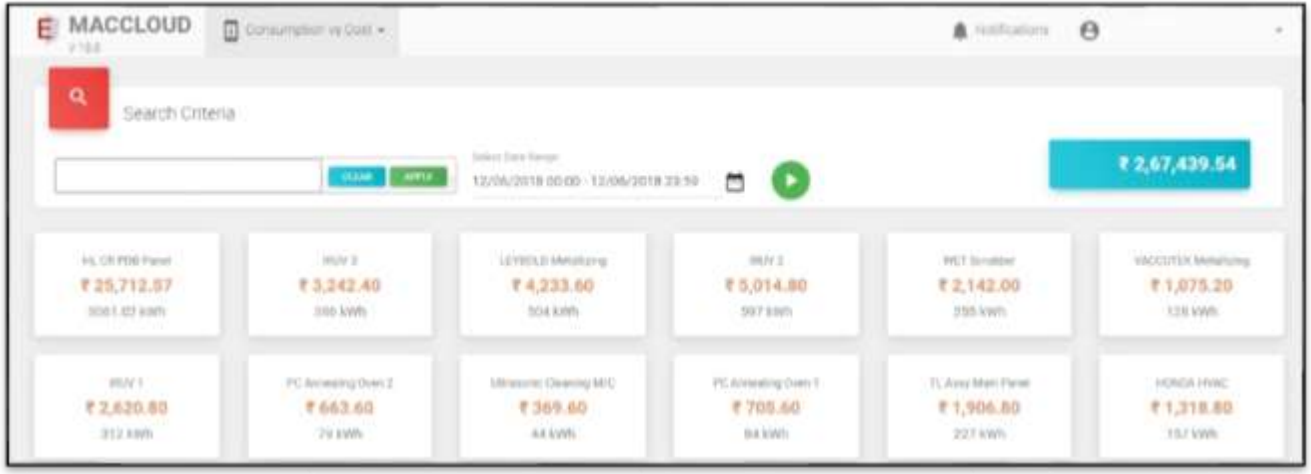
DASHBOARD CONSISTS OF:

- Dashboard
- Consumption vs. Cost
- Consumption vs. Production
- Calendar View
- Main Incomer
- Aerial Map
- Window
- Node History
- Distribution Loss
- Production Entry
- Plant Consumption

1-DASHBOARD

- Today Consumption/Yesterday Consumption/Forecast Consumption
- Today Cost/Yesterday Cost/Forecast Cost
- This Month Consumption/Last Month Consumption/Forecast Consumption
- This Month Cost/Last Month Cost/Forecast Cost
- Last 31 Days/This Month Energy Consumption
- Distribution or Location Wise Chart
- Last 24 hrs. Energy Consumption
- Benchmark for Last 31 Days
- Total Plant Consumption
- Yesterday Peak, Non-Peak, Night Consumption.

Consumption vs. Cost

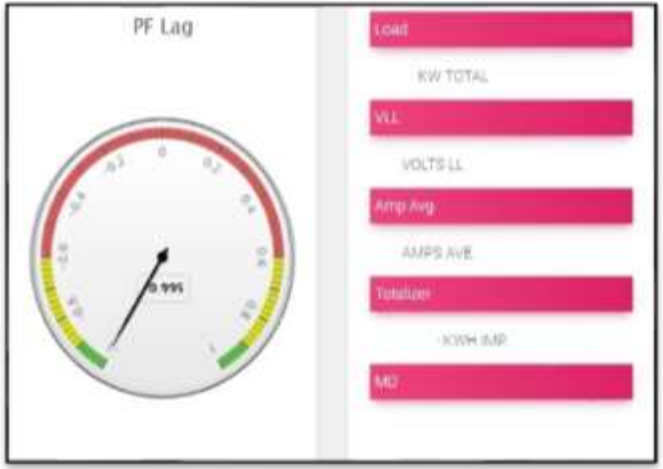


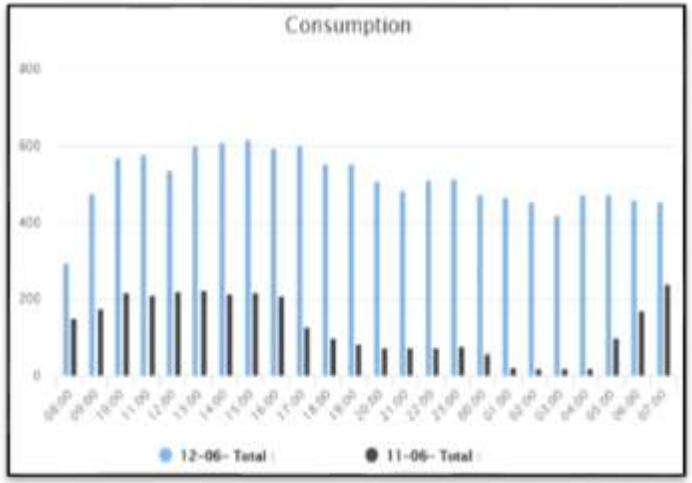
- The consumption and cost of all the nodes can be analysed here.
- The overall cost and consumption is also displayed here.

Consumption vs. Production

- The consumption and production details can be analyzed here.
- The comparison can be seen in graph.

Main Incomer



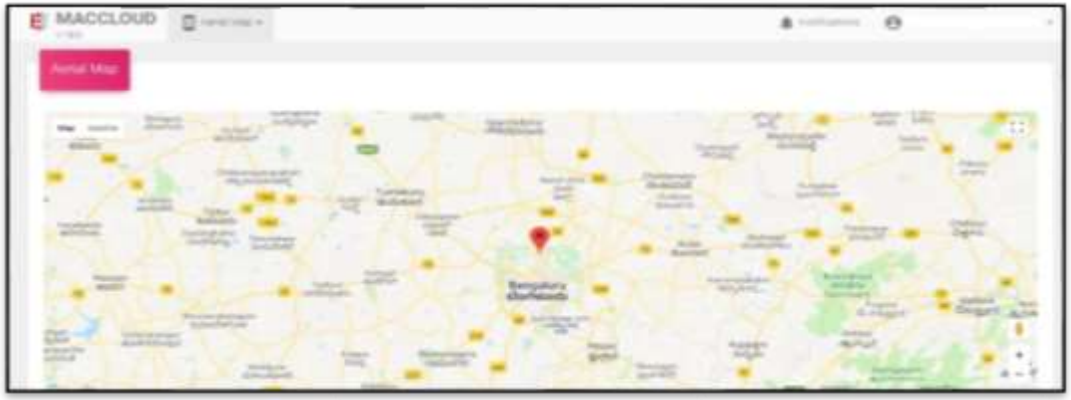


- The main incomer represents the total power coming to a particular zone or to the entire plant.
- A node can be assigned as a main incomer in the manage node menu in the settings menu.

Calendar View

- The daily, weekly and month wise consumption details of all the nodes can be checked here.
- Arrow keys are given to select the required month.
- Also options are given to select nodes based on the requirements.

Aerial View

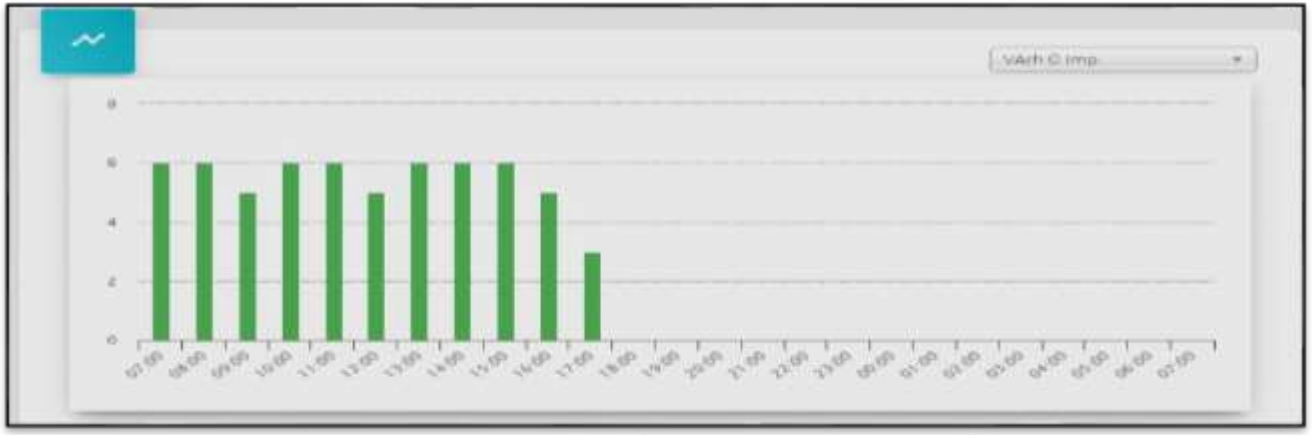


- Aerial View is a view on Maps.
- It will show the exact location of the customer.

Window

- The windows will display the node details based on the selection of the parameters.
- Zoom option is given to see it in enlarged view.
- The Four window and Eight window screens are there.

Node History



- The performance of all the nodes can be viewed here.
- The last updated time and selection option is given in the top side.
- In integrated tag graph, all the integrated tag values of all the nodes can be viewed based on the selection.
- It will show the data of present day.

Node History

- The consumption and generation details of the selected node will be displayed here.

Distribution Loss

Distribution Loss

Select Date Range

02/02/2019 00:00 - 02/02/2019 23:59

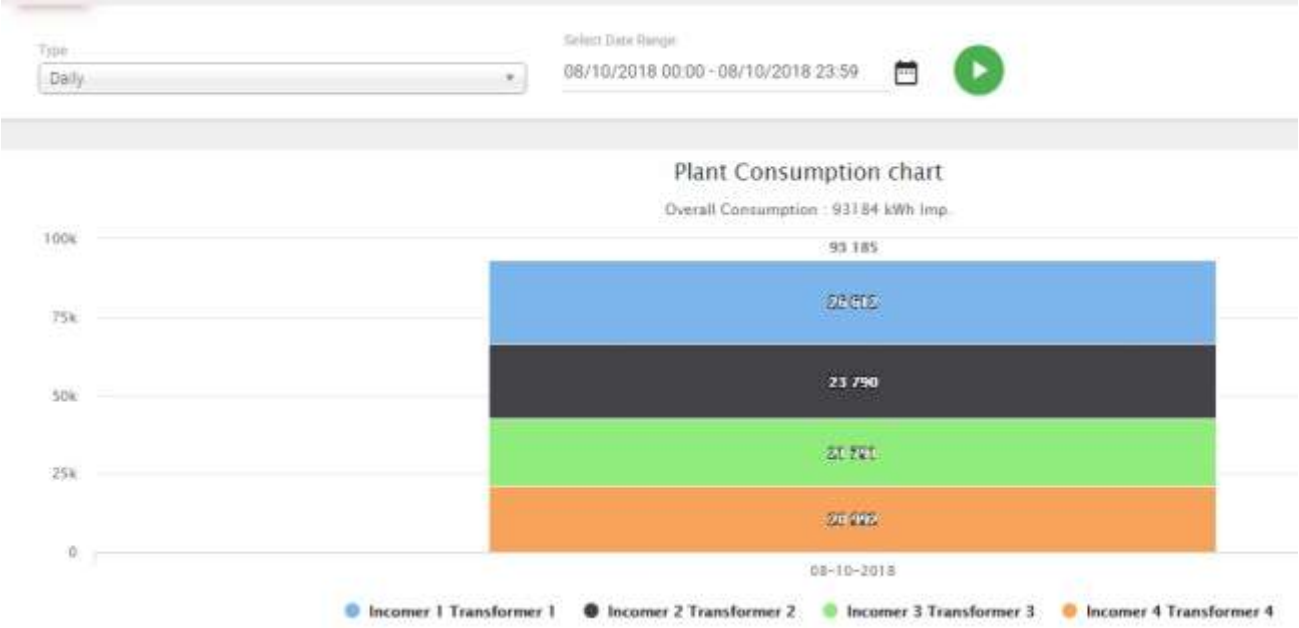
Incoming/Distribution/SubMeter	Consumption	Distribution	Loss %
Incomer 1 Transformer 1	19456.00 k	16620.16 k	14.58 %
Incomer 2 Transformer 2	0.00 k	--	--
Incomer 3 Transformer 3	23597.06 k	14085.66 k	40.31 %
Incomer 4 Transformer 4	17171.97 k	13802.50 k	19.62 %

- The distribution loss can be identified here.
- The consumption, Distribution and loss percentage can be viewed here based on the selection of nodes selected.
- Any changes in the distribution loss can be done in distribution settings in the settings menu.

Production Entry

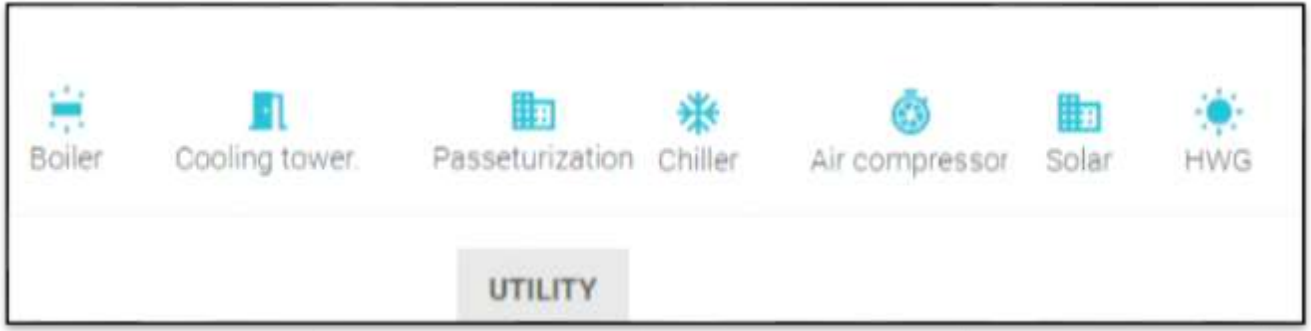
- The Production Entry is used to entry the data manually for the meters which are not connected with the device

Plant Consumption



- The total plant consumption details can be viewed here.

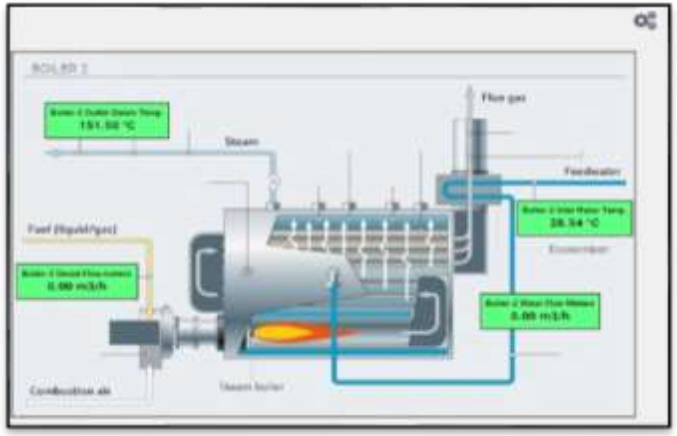
2-UTILITY

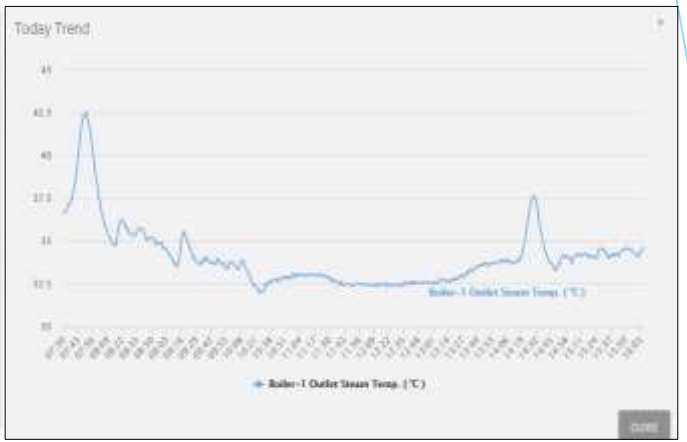


The process and automation parameters of the following systems will be displayed here.

- Boiler
- Chiller
- Air Compressor
- Cooling Tower
- Solar
- HWG

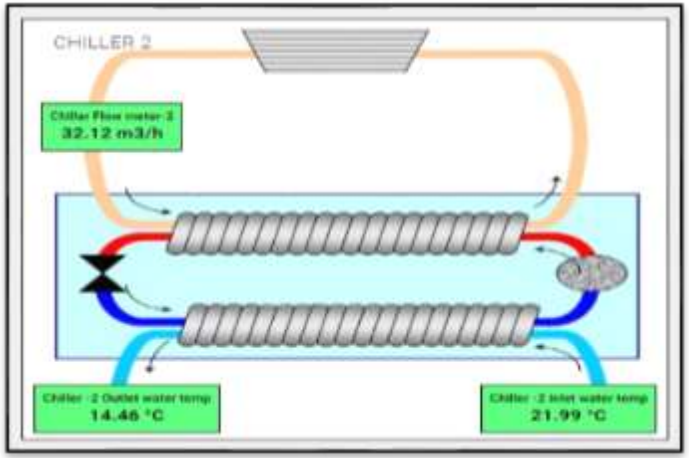
Boiler

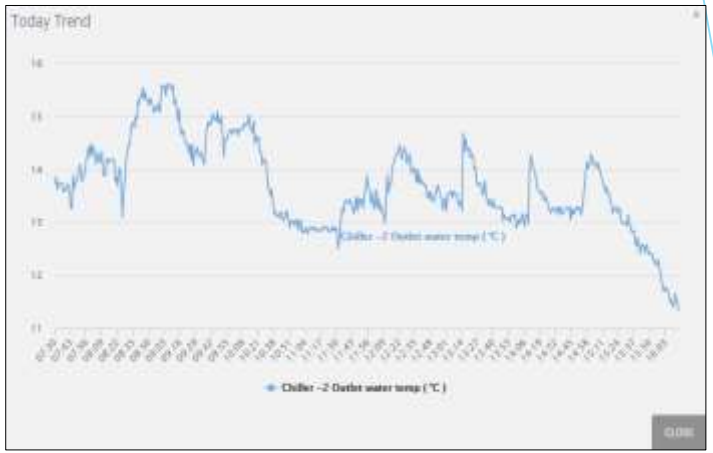




- The performance of the boiler can be viewed here.
- The inlet and outlet flow can be monitored.
- Today trend will be displayed in the Chart.

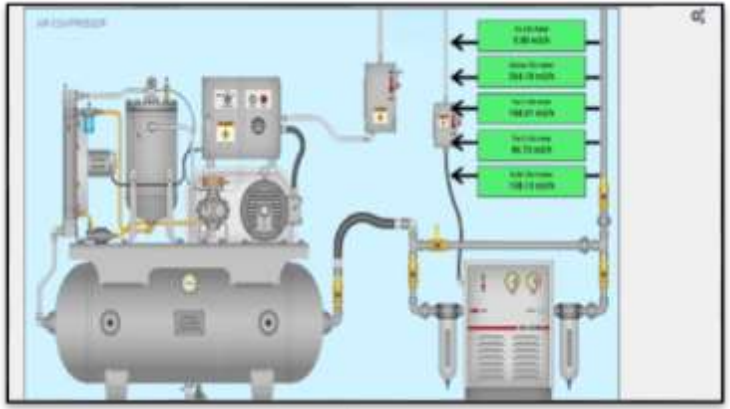
Chiller

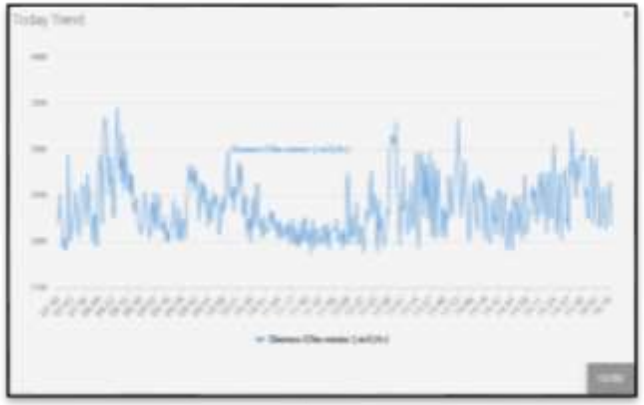




- The performance of the Chiller can be viewed here.
- The inlet and outlet flow can be monitored.
- Today trend will be displayed in the Chart.

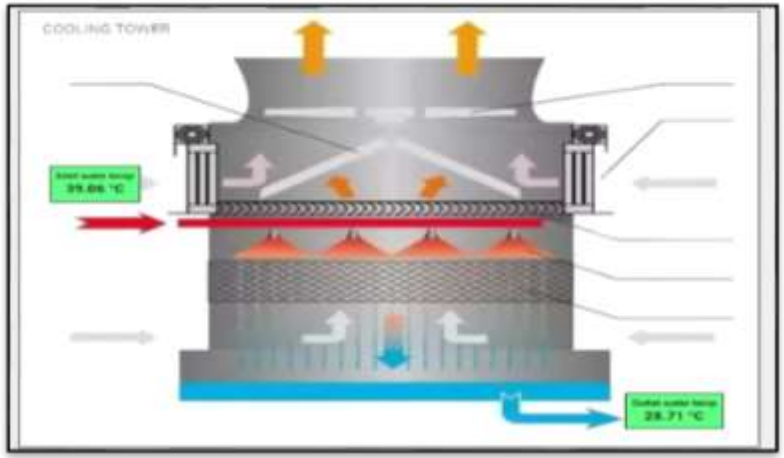
Air Compressor

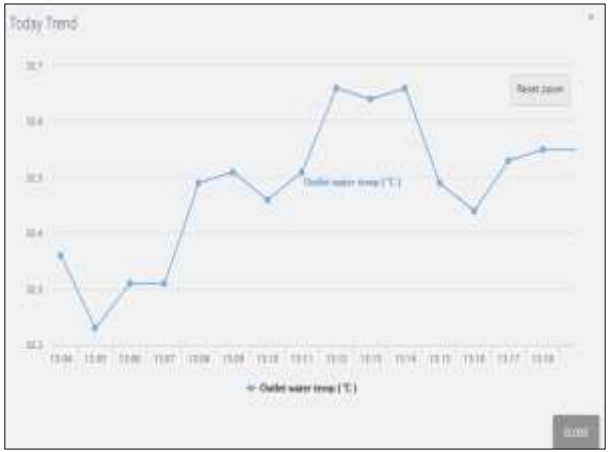




- The performance of the air compressor can be viewed here.
- Today trend will be displayed in the Chart.

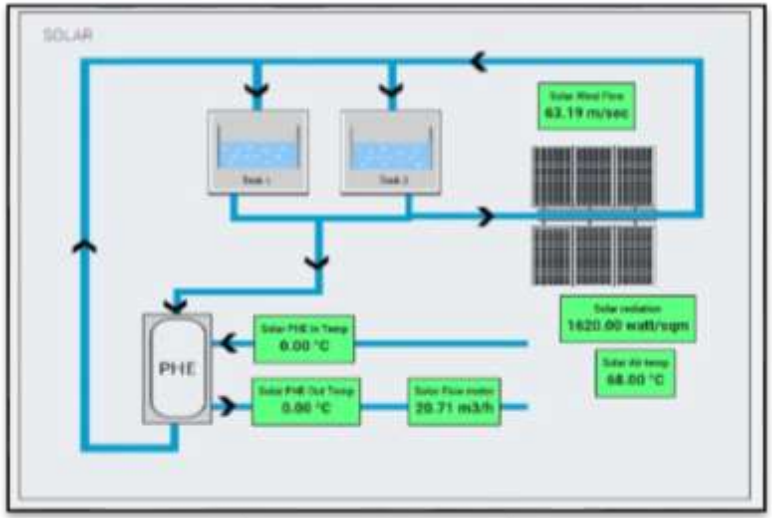
Cooling Tower

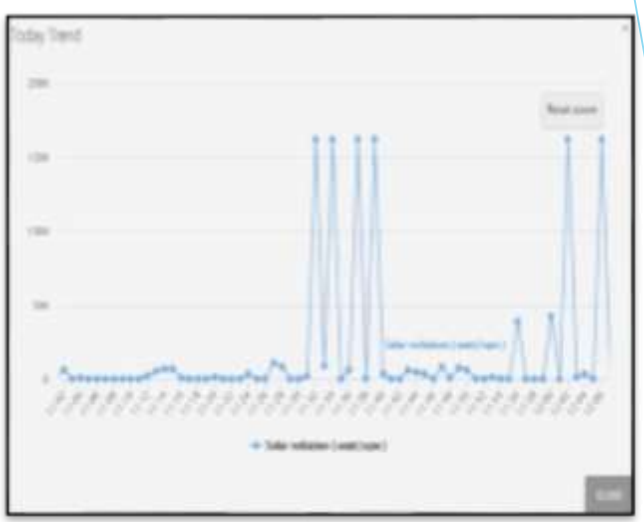




- The performance of the cooling tower can be viewed here.
- The inlet and outlet flow temperature can be monitored.
- Today trend will be displayed in the Chart.

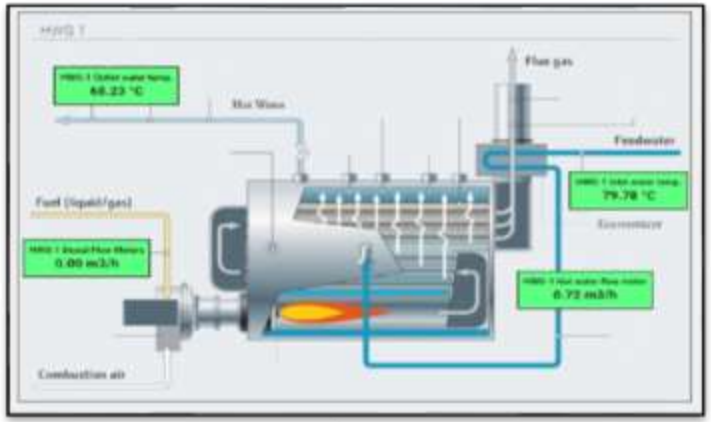
Solar

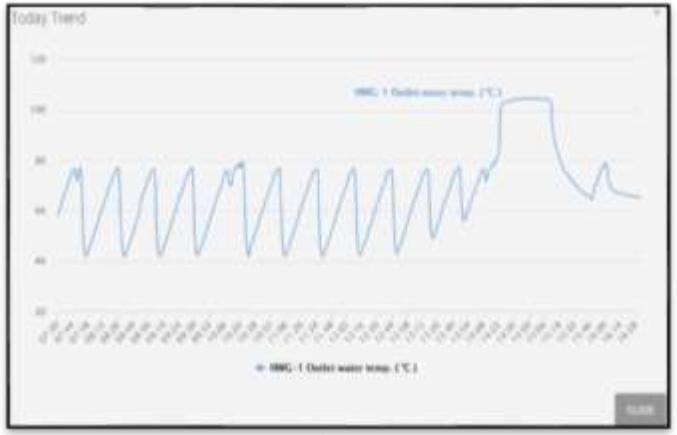




- The performance of the solar can be viewed here.
- Today trend will be displayed in the Chart.

HWG





- The performance of the HWG can be viewed here.
- Today trend will be displayed in the Chart.

3-NETWORK HIERARCHY

The network hierarchy shows the hierarchy view of the nodes. It can be viewed in the following ways:

- Hierarchy View
- Summary

Network Hierarchy

The Hierarchy view show the hierarchy in a table view. It can be viewed in two ways.

- Gateway Wise
- Location Wise

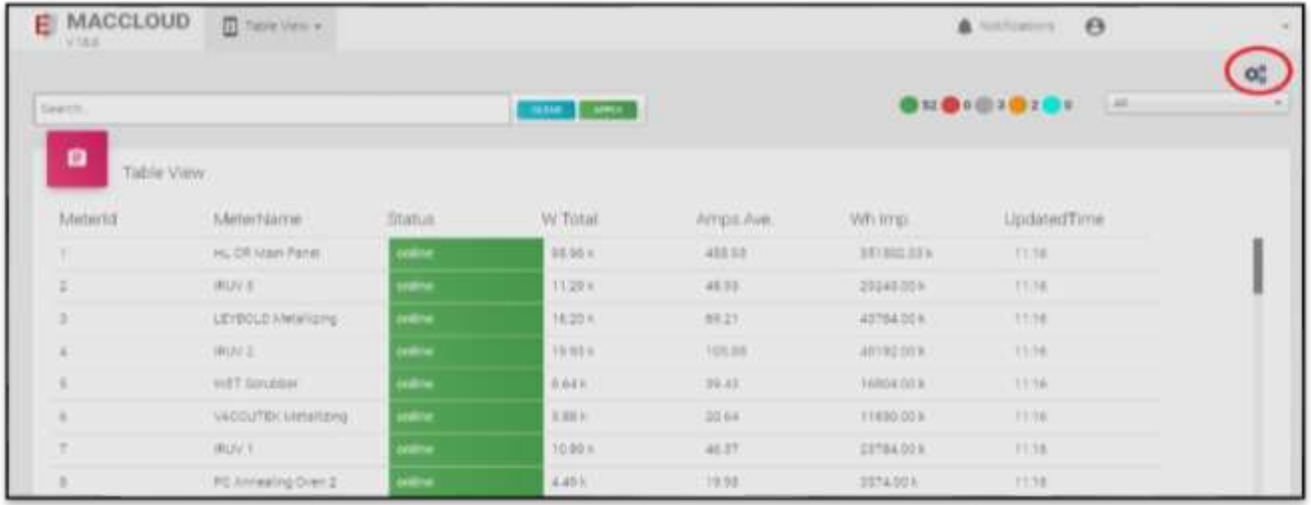
4-LIVE

- Incomer Display
- Table View
- Tag View
- LCD View
- Forecast
- Alarm
- Communication Status

Incomer Display

- The incomer display can be used to monitor the live values of the incomers in the plant.

Table View



- The Table View can be used to see the current status of the nodes.
- Also it will display the values of the selected tags and the last updated time.
- There are five modes of operation in MAC-CLOUD 18.
- They are online mode, offline mode, off, no load and DG.

Tag View

Energy

	Import	Export
Active Energy [Wh]	352681.98 k	0.00 k
Apparent Energy [VAh]	0.00 k	0.00 k
Reactive Energy Ind. [VArh]	0.00 k	143026.00 k
Reactive Energy Cap.[VArh]	13.00 k	0.00 k
Ampere Hours	0.00	0.00

Basic

	Average	L1(R)	L2(Y)	L3(B)
Voltage LL-VLL	0.00	0.00	0.00	0.00
Voltage LN-VLN	232.48	231.81	231.78	233.85
Current [Amps]	556.66	552.45	573.49	544.69
Power Factor	0.944	0.940	0.941	0.951
Frequency [Hz]	49.97			

The basic and the energy parameters can be viewed here.

- Voltage LL-VLL
- Voltage LN-VLN
- Current (Amps)
- Power Factor
- Frequency (Hz)

- Active Energy
- Apparent Energy
- Reactive Energy Inductive
- Reactive Energy Capacitive
- Ampere Hours

Power

	Total	L1(R)	L2(Y)	L3(B)
Active Power[W]	103.39 k	107.49 k	107.13 k	95.55 k
Apparent Power[VA]	111.38 k	114.30 k	116.65 k	103.18 k
Reactive Power[VAr]	41.30 k	38.31 k	46.15 k	38.94 k

Demand

	Import
Rising	0.00
Forecast	0.00
Maximum	0.00

The power and the demand parameters can be viewed here.

- Active Power
- Apparent Power
- Reactive Power
- Rising
- Forecast
- Maximum

LCD View

- For analyzing the data from multiple nodes for a single parameter, the LCD view can be used.
- It will show the live reading

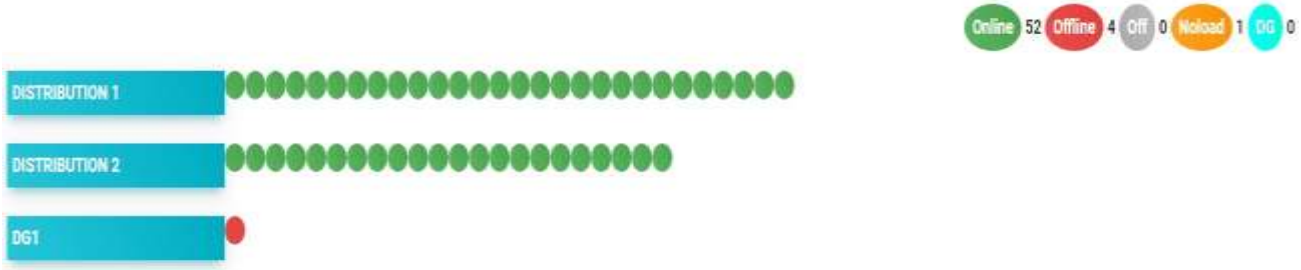
Forecast

- A forecast is judged likely to happen in the future, especially in connection with a particular situation.
- So a sanction demand rate can be set for all the nodes.
- The current value, sanction demand given and the last updated time will be displayed here.

Alarm

- The status of the alerts which are set in alert engine can be viewed here.

Communication Status

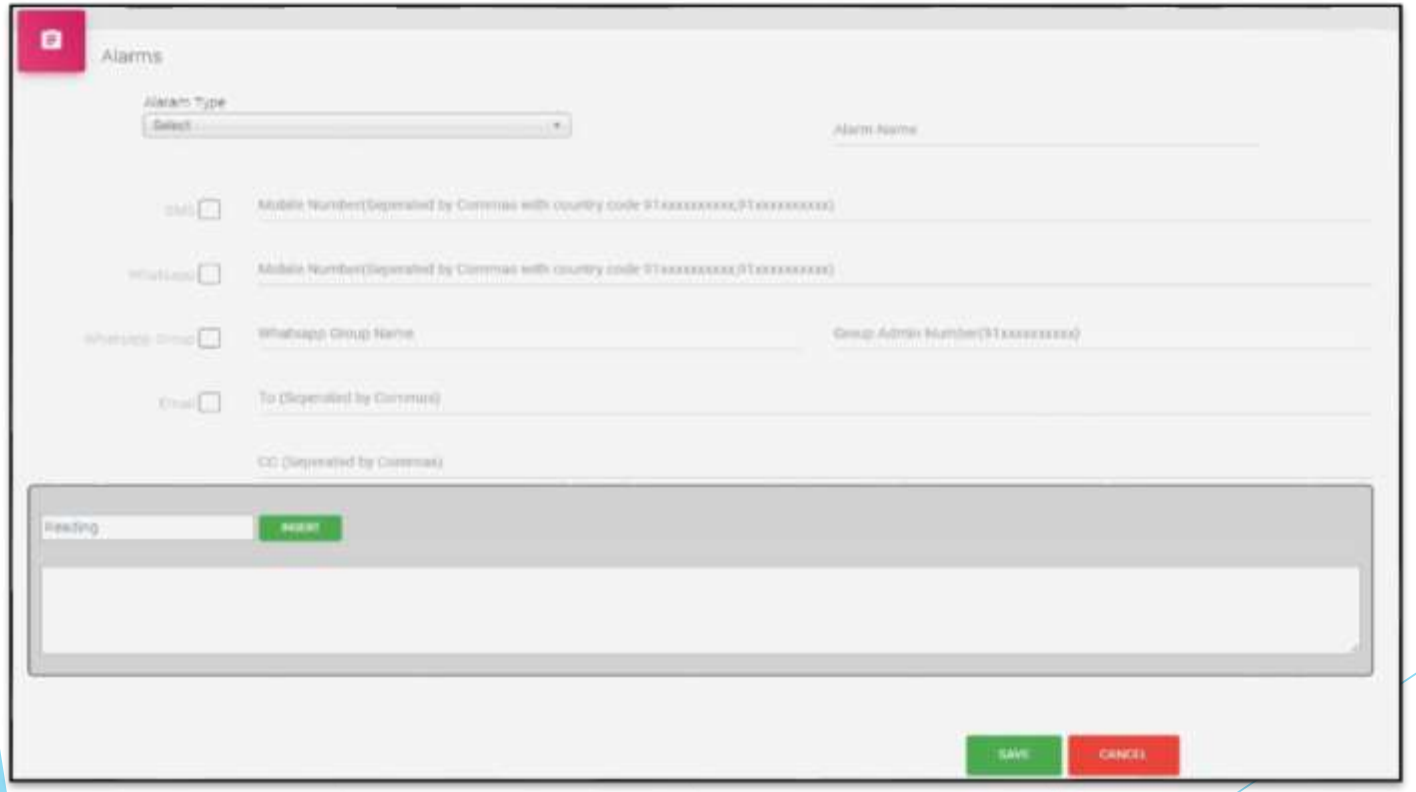


- It will show an overview of the communication status of all nodes.
- All the nodes current status will be displayed in colors based on the status.

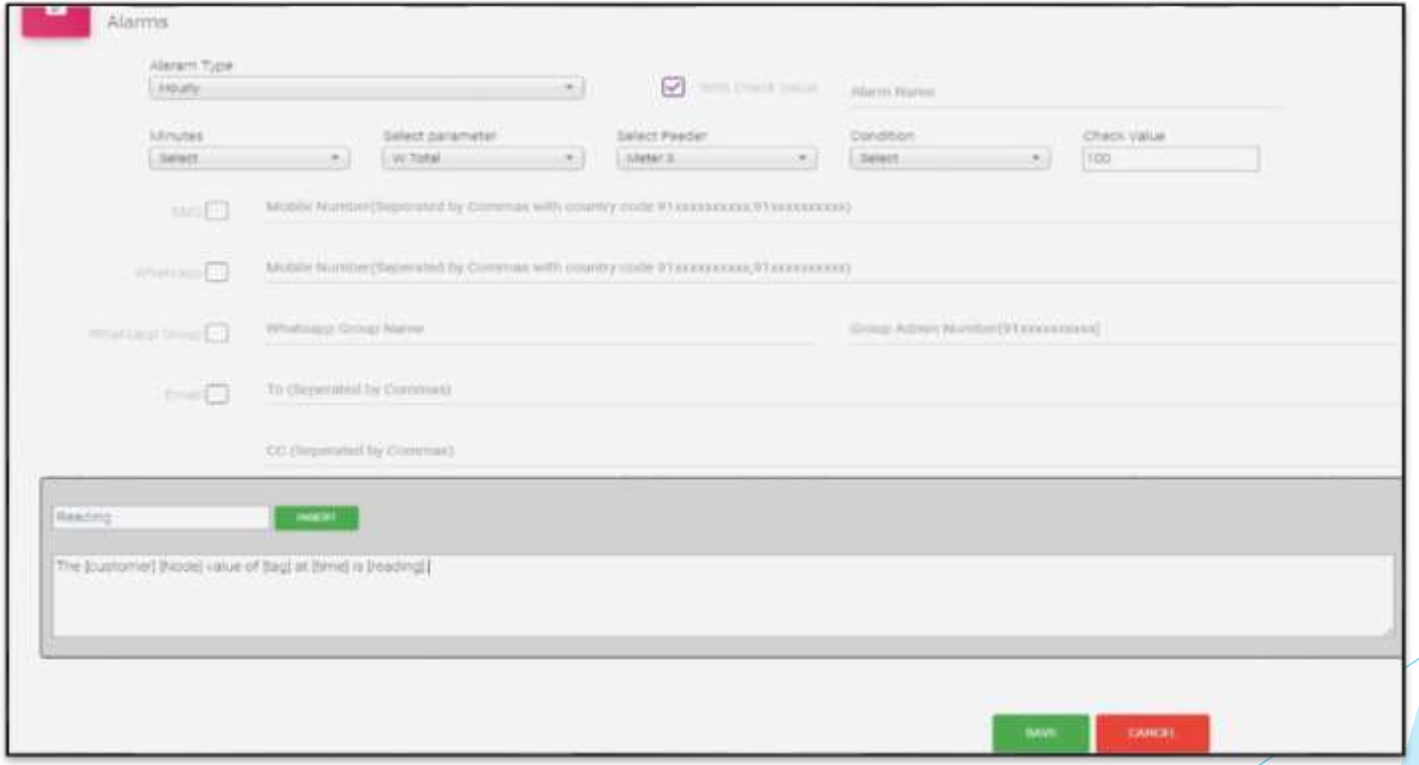
Alert Engines

- Hourly
- Daily
- Weekly
- Monthly
- Real Time

Alert without Check value



Alert with Check value



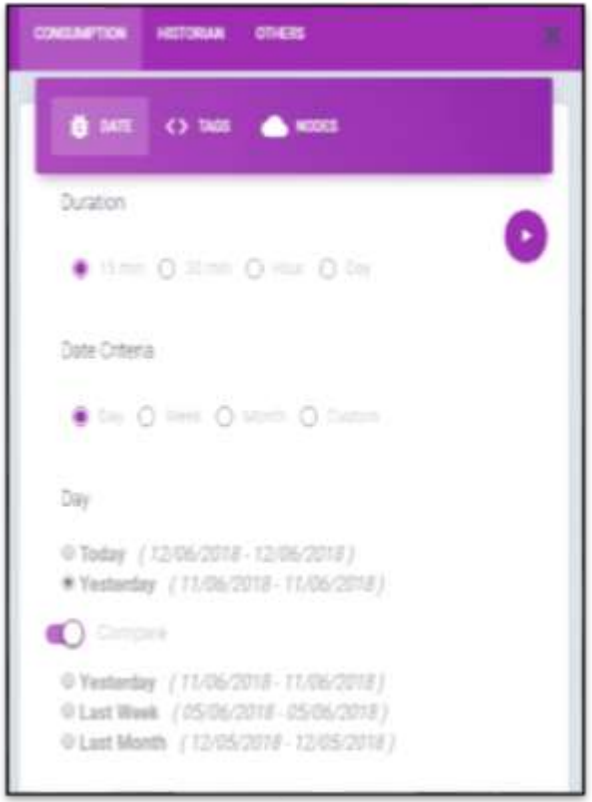
Email Scheduler

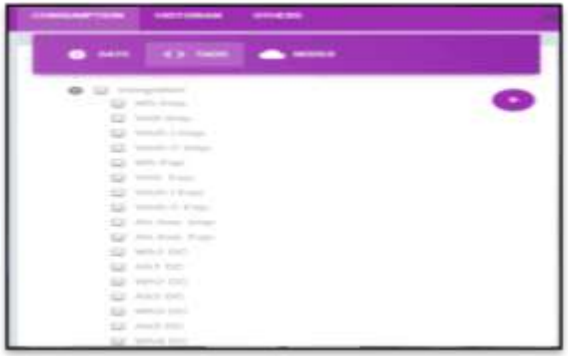
- It is used to schedule the mail as per the customer requirement.

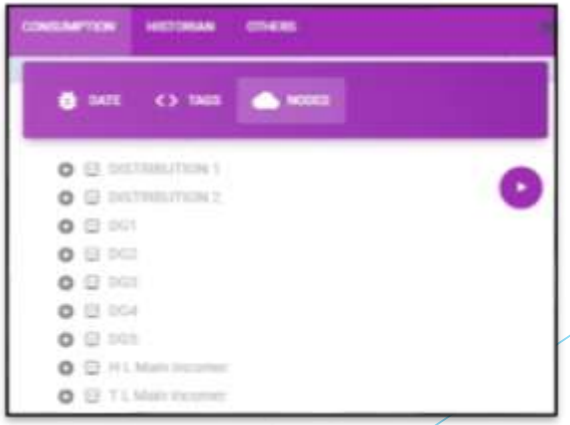
Analytical Engine

- Consumption
- Historian
- Others

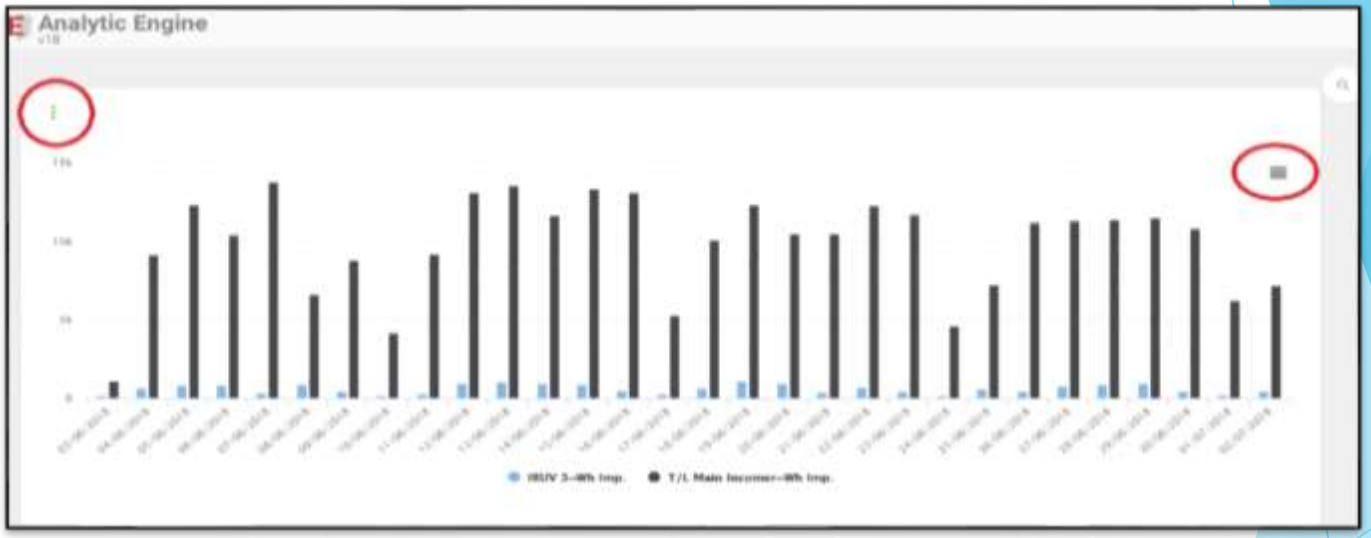
Consumption





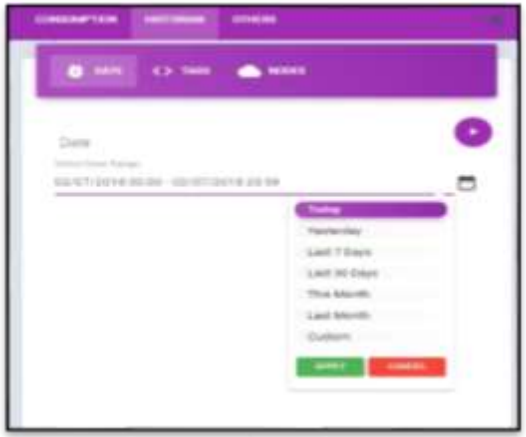


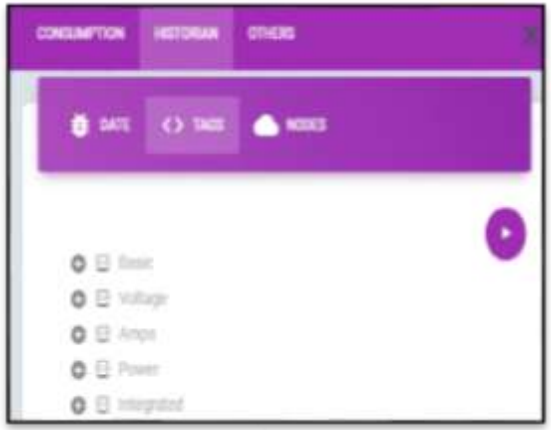
Consumption



- The consumption of all the integrated parameters of all the nodes can be viewed here.
- The data can be viewed in graph and table.
- The data can be downloaded in excel format.

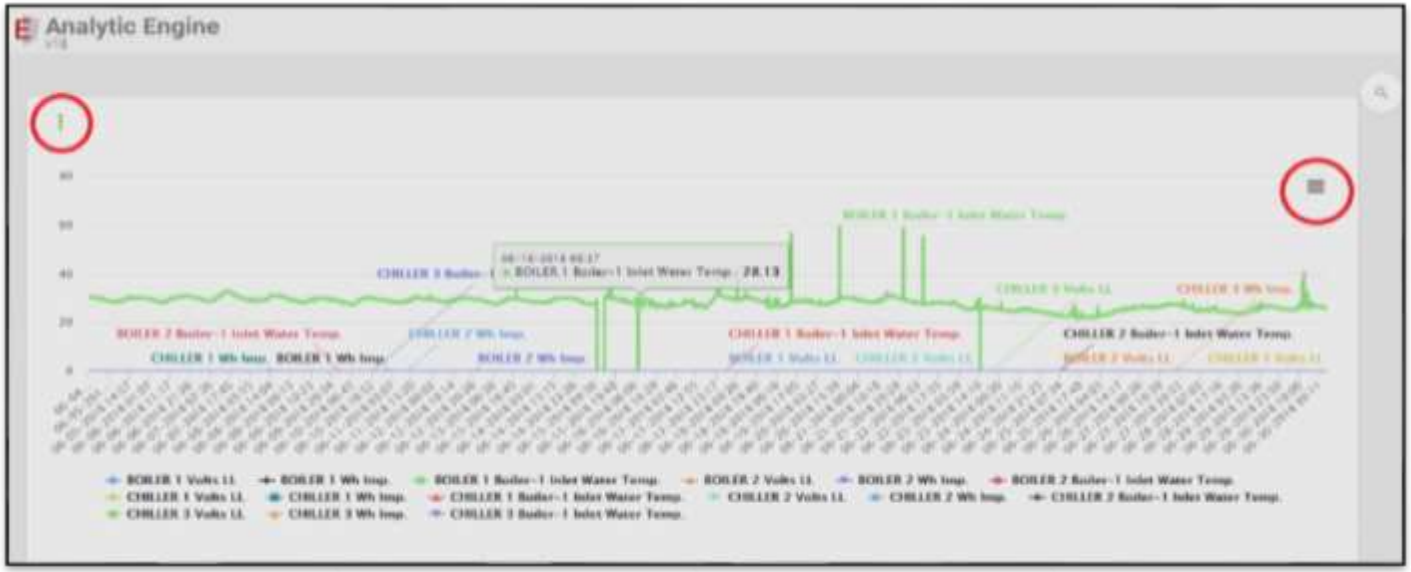
Historian




CONSUMPTION
HISTORIAN
OTHERS
DATE
TAGS
NODES
Basic
Voltage
Amps
Power
Integrated

CONSUMPTION
HISTORIAN
OTHERS
DATE
TAGS
NODES
DISTRIBUTION 1
DISTRIBUTION 2
DG1
DG2
DG3
DG4
DG5
H.L Main Incomer
T.L Main Incomer

Historian



- The historian will show the data's of all the nodes and tags for the selected time Interval.
- The data can be viewed in graph and table.
- The data can be downloaded in excel format.

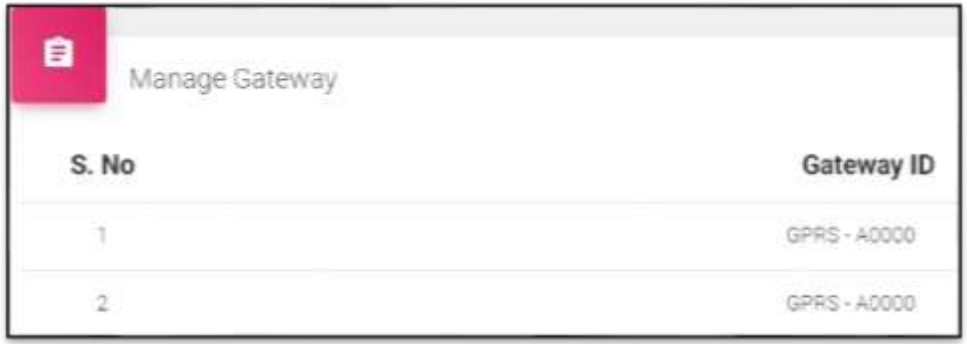
Others

- It consists of two types of Reports
  - Group Wise
  - Multi Group

6-SETTINGS

- Manage Gateway
- Manage Location
- Manage Node
- Manage Menu
- Distribution Settings
- Production Settings
- MF Entry
- Manage Shift

Manage Gateway

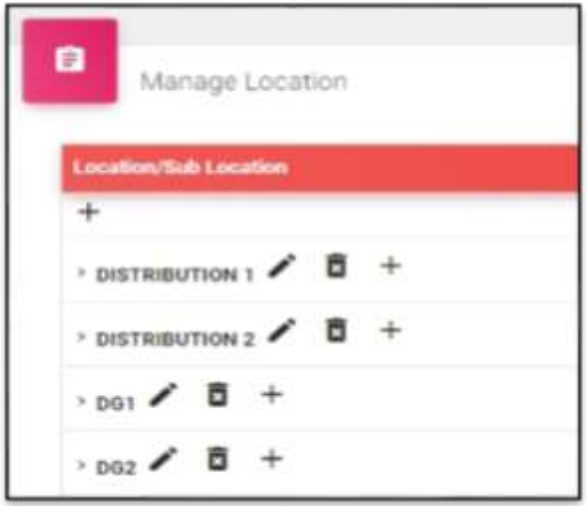


Manage Gateway

S. No	Gateway ID
1	GPRS - A0000
2	GPRS - A0000

- All the Gateway Id can be observed here.
- So it will be easy the identify the name and total number of gateways present.

Manage Location

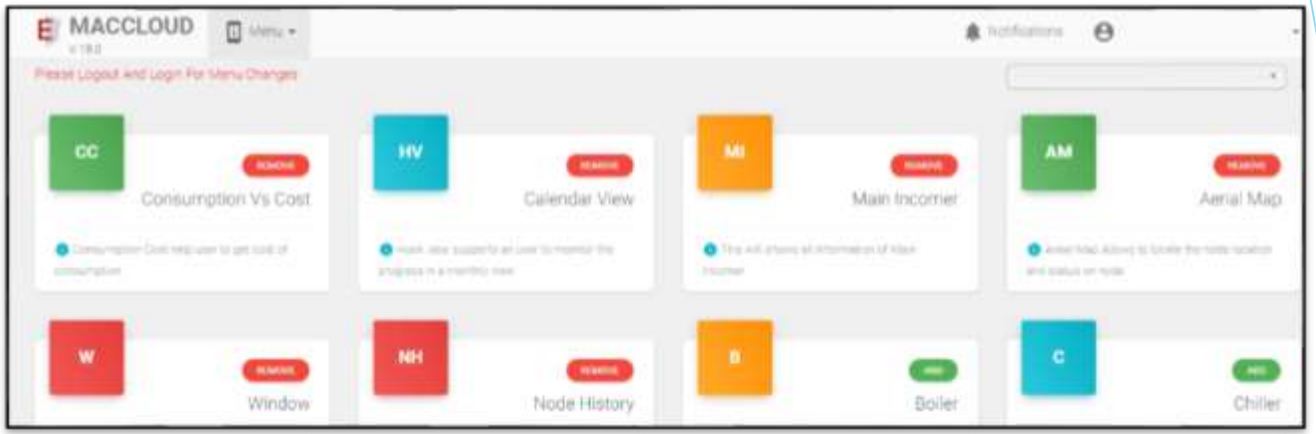


- All the location and sub location can be managed here.
- All the locations can be added, edited or deleted here.
- Based on these locations, the node location and sub location can be changed in manage node menu.

Manage Node

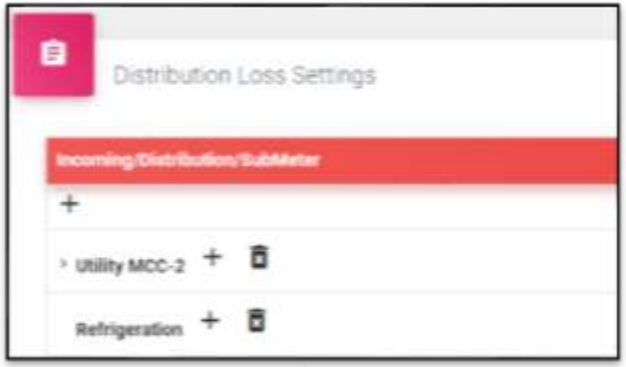
- Here all the nodes can be viewed and edited.
- Alias name can be given for the nodes.

Manage Menu



- All the Menu can be added or removed by using manage menu option.
- For adding a menu click on the add option.
- To remove a menu click on remove option.
- Once a change is made in the menu, it is mandatory to logout and login for menu changes.

Distribution Settings

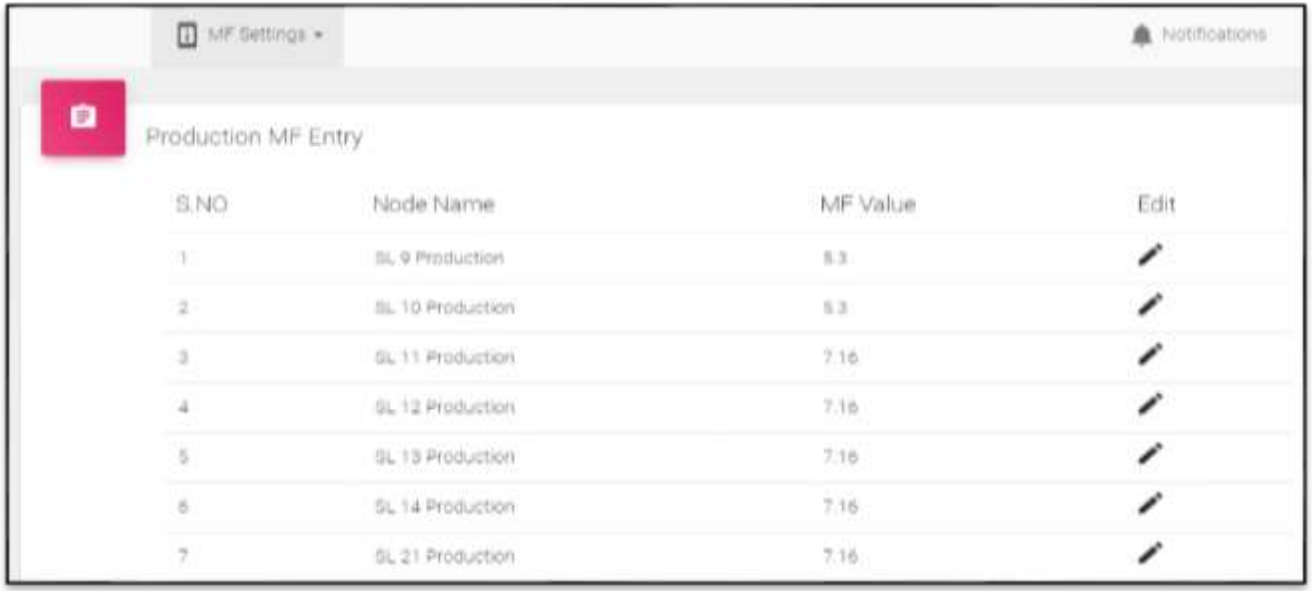


- The distribution loss settings can be set here.
- All the nodes can be added here based on the requirement.

Production settings

- All the production settings can be done here.
- The add, edit and delete options are given here.
- The consumption vs production can be viewed based on the settings here.

MF Entry



S.NO	Node Name	MF Value	Edit
1	SL 9 Production	5.3	
2	SL 10 Production	5.3	
3	SL 11 Production	7.16	
4	SL 12 Production	7.16	
5	SL 13 Production	7.16	
6	SL 14 Production	7.16	
7	SL 21 Production	7.16	

- In MF entry the multiplication factor for all the nodes can be entered and edited here.

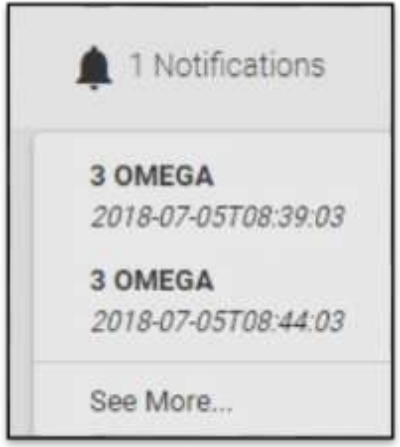
Manage Shift

- The shift timings can be added and edited here.

Manage User

- In User Menu settings, different users can be added for a single customer.
- In user list, the user name, name, mail id and status will be there.
- An edit option to given to edit the details.
- All the details and status can be edited here.

7-NOTIFICATIONS



- All the alarm notifications will be displayed here

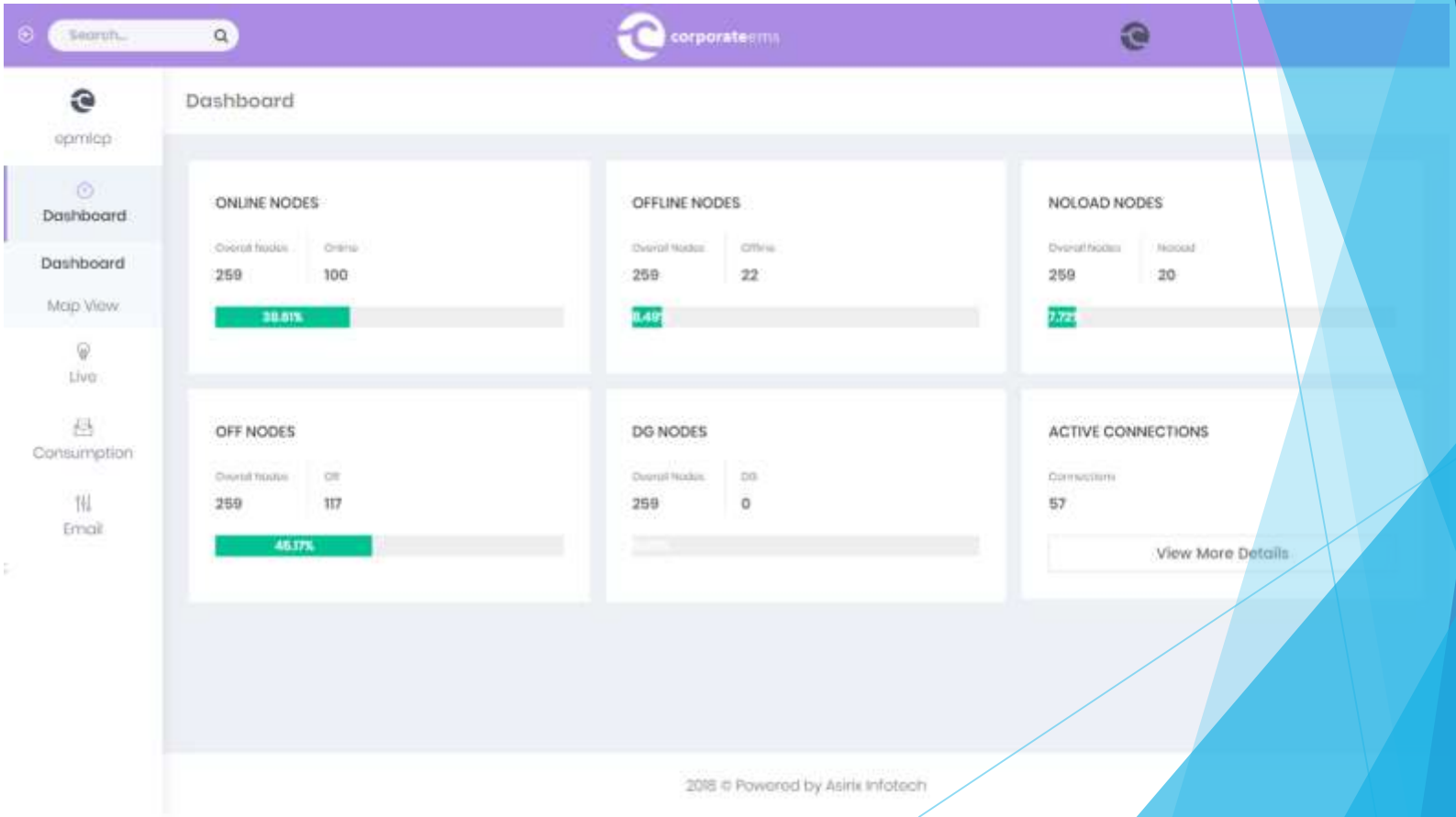
8-CUSTOMER PROFILE

- All the details about the customer can be viewed and edited here.

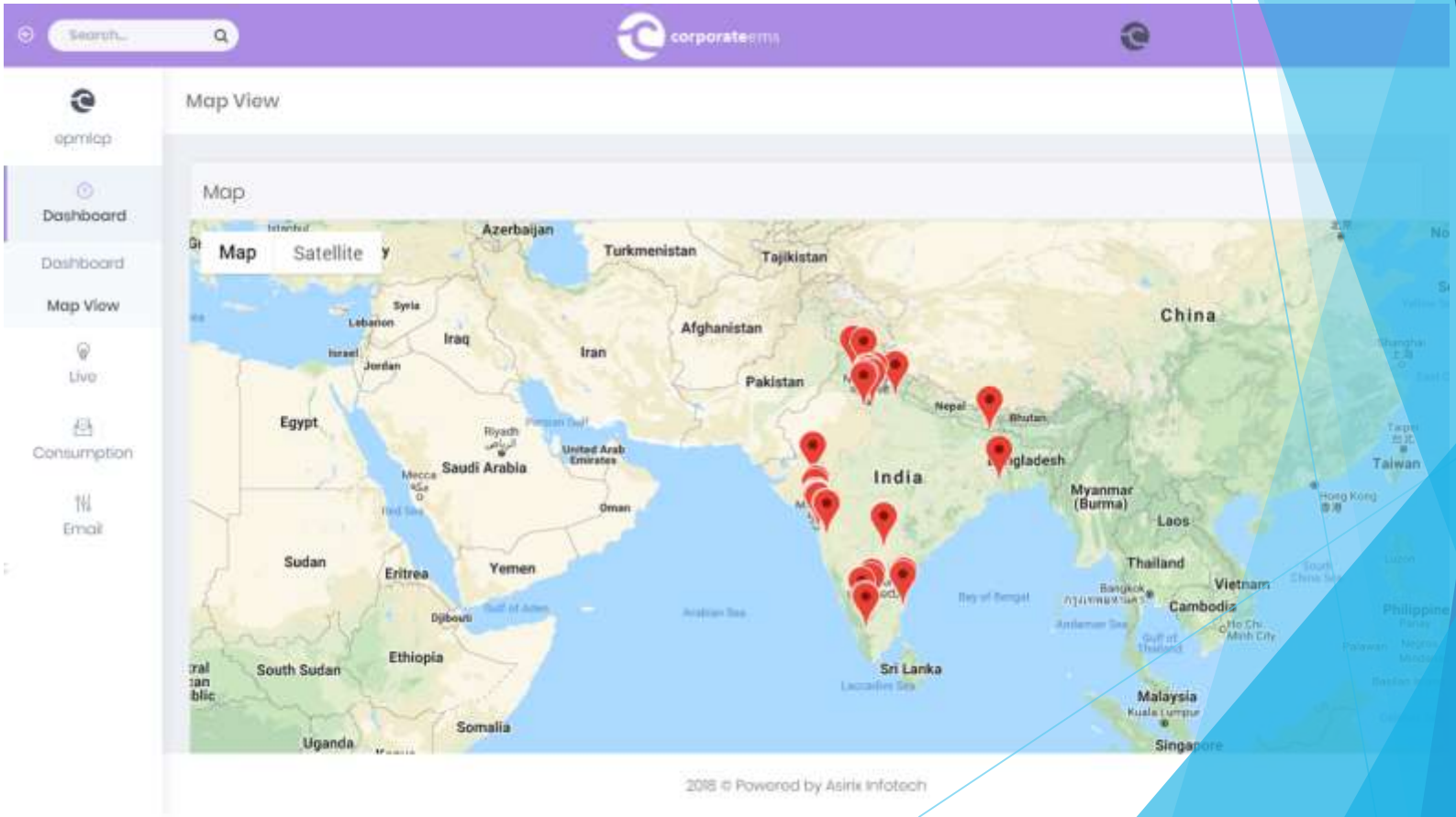
EMS Corporate

- All the corporate clients can be monitored in a single login ID.
- Total Nodes of the clients can be viewed in the Dashboard.
- ON / OFF Status of the clients can be monitored.
- Total consumption of the clients can be viewed.
- E-Mail status of the clients can be monitored.
- Map view of all the clients can be viewed.

Dashboard


Search...
corporateems
epmlcp
Dashboard
Dashboard
Map View
Live
Consumption
Email
Dashboard
ONLINE NODES
Overall Nodes
259
Online
100
38.61%
OFFLINE NODES
Overall Nodes
259
Offline
22
8.49%
NOLOAD NODES
Overall Nodes
259
Noload
20
7.72%
OFF NODES
Overall Nodes
259
Off
117
45.17%
DG NODES
Overall Nodes
259
DG
0
ACTIVE CONNECTIONS
Connections
57
View More Details
2018 © Powered by Asirix Infotech

Map View


Search...
corporateems
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Dashboard
Dashboard
Map View
Live
Consumption
Email
Map View
Map
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Satellite
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Turkmenistan
Tajikistan
Syria
Lebanon
Israel
Jordan
Iraq
Iran
Afghanistan
Pakistan
China
Nepal
Bhutan
Egypt
Riyadh
United Arab Emirates
Saudi Arabia
Mecca
Oman
India
Myanmar (Burma)
Laos
Taiwan
Hong Kong
Sudan
Eritrea
Yemen
Djibouti
Thailand
Vietnam
Cambodia
Bangkok
Bay of Bengal
Arabian Sea
Ethiopia
South Sudan
Sri Lanka
Malaysia
Kuala Lumpur
Singapore
Somalia
Uganda
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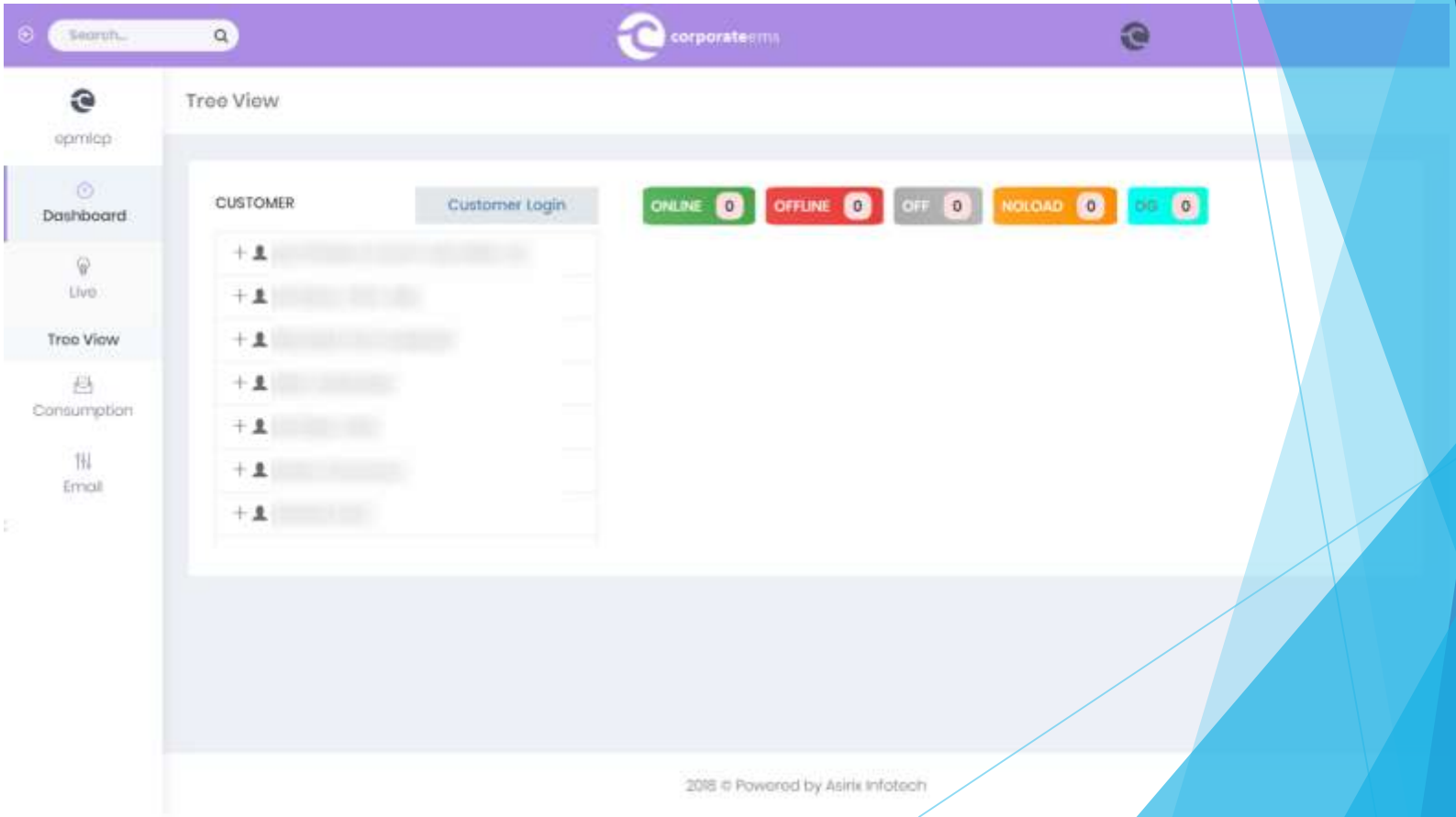
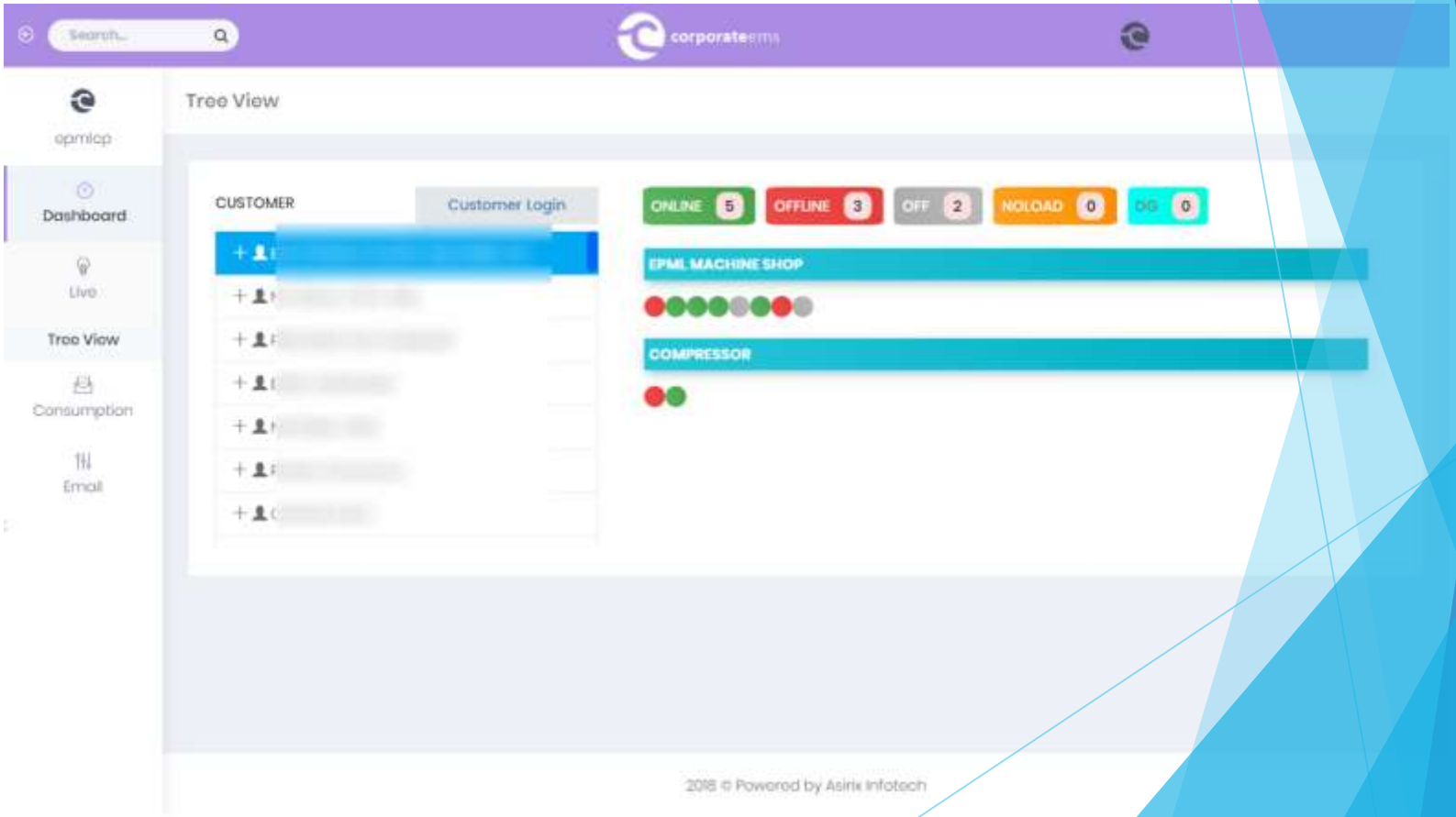
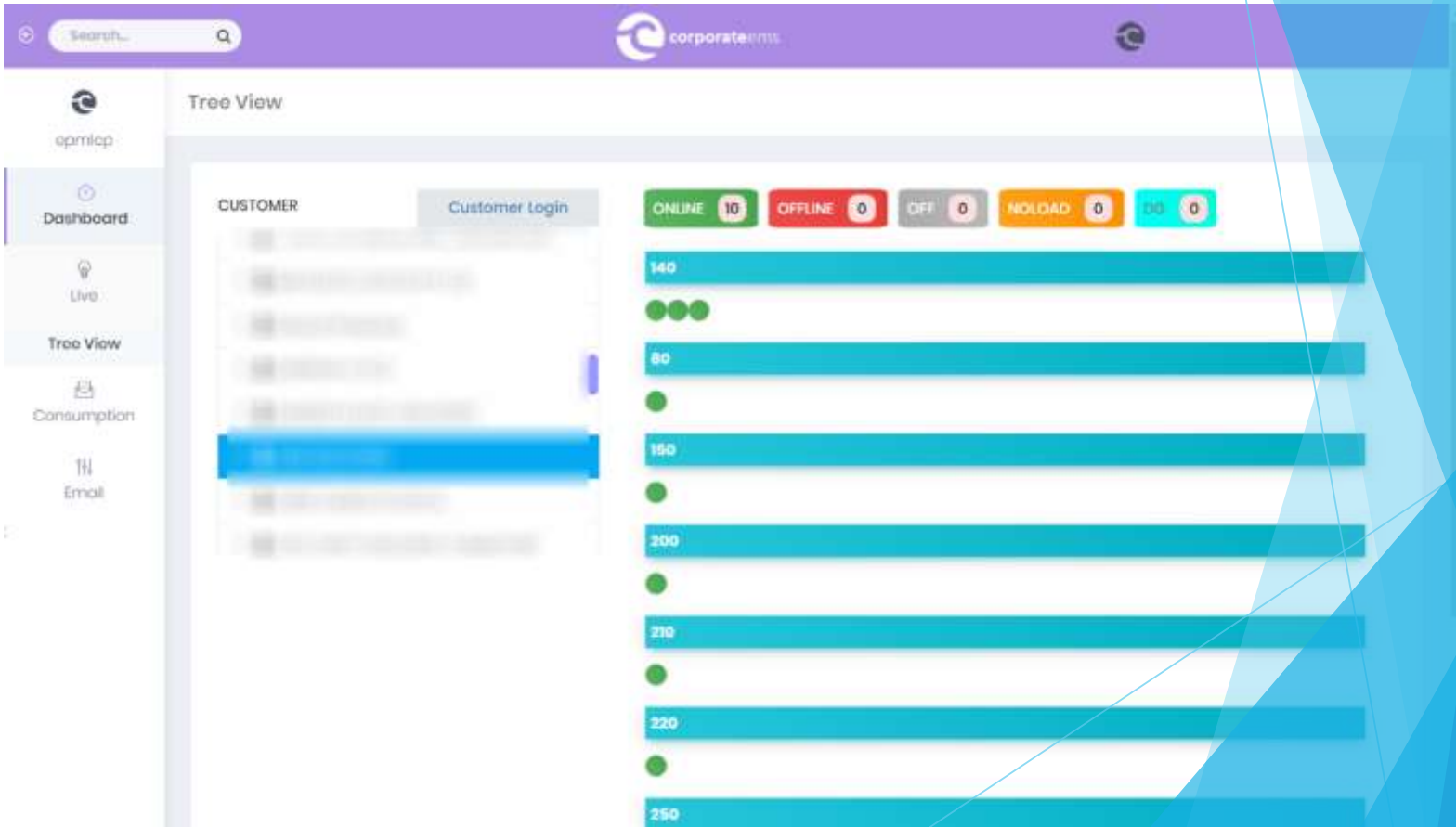
Live Customer Data



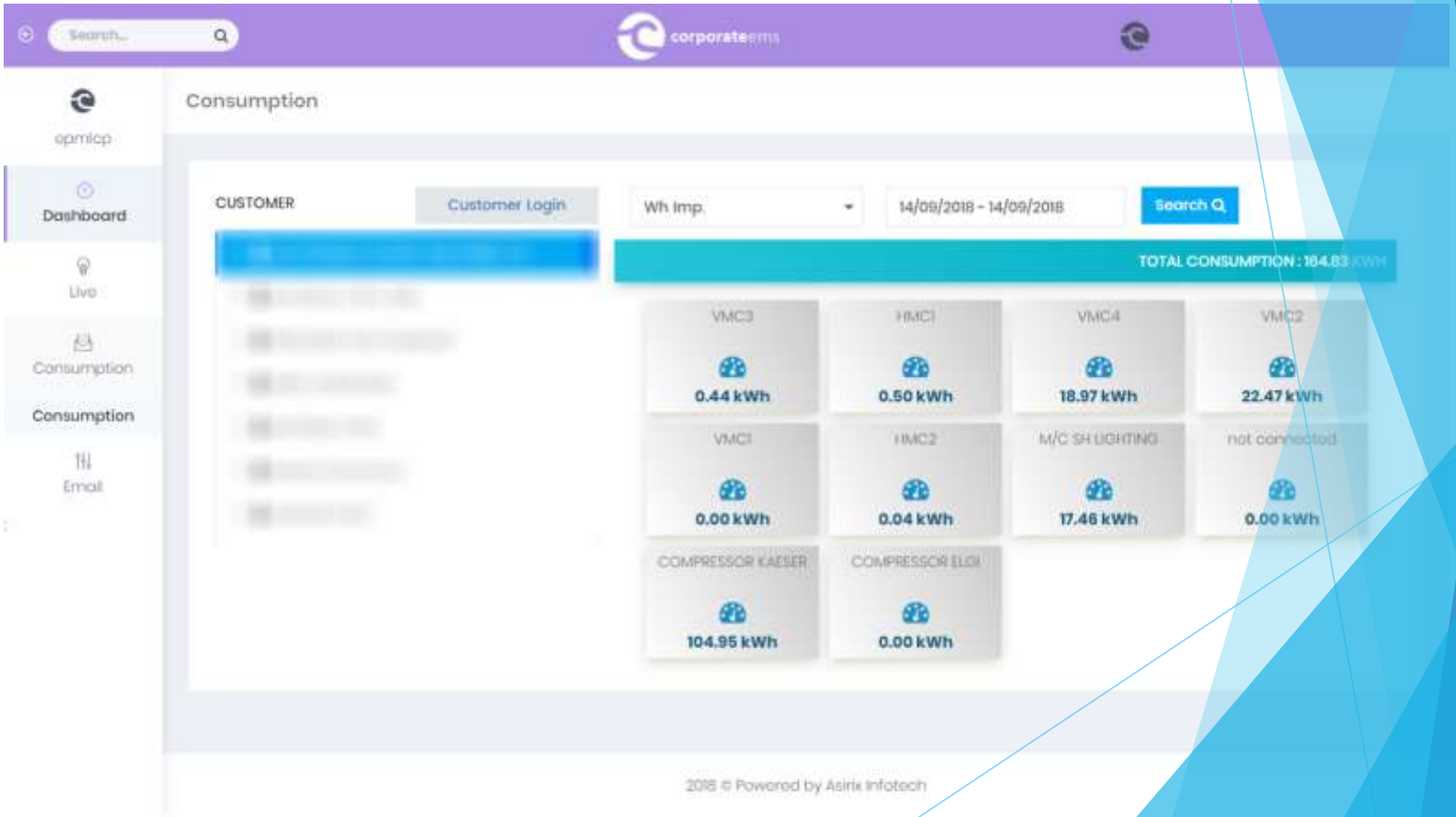
Live Single Customer Data



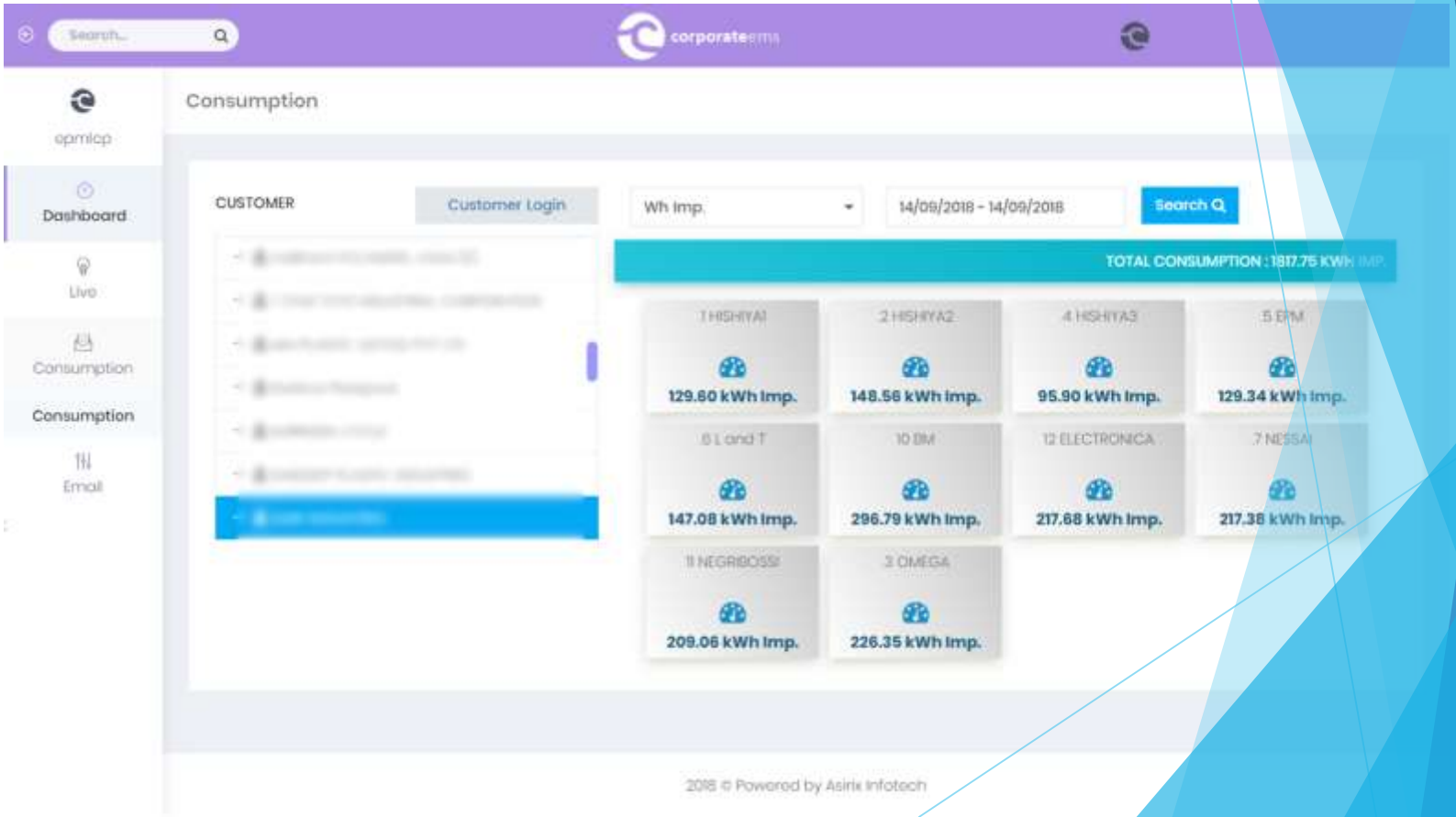
Live Single Customer Data



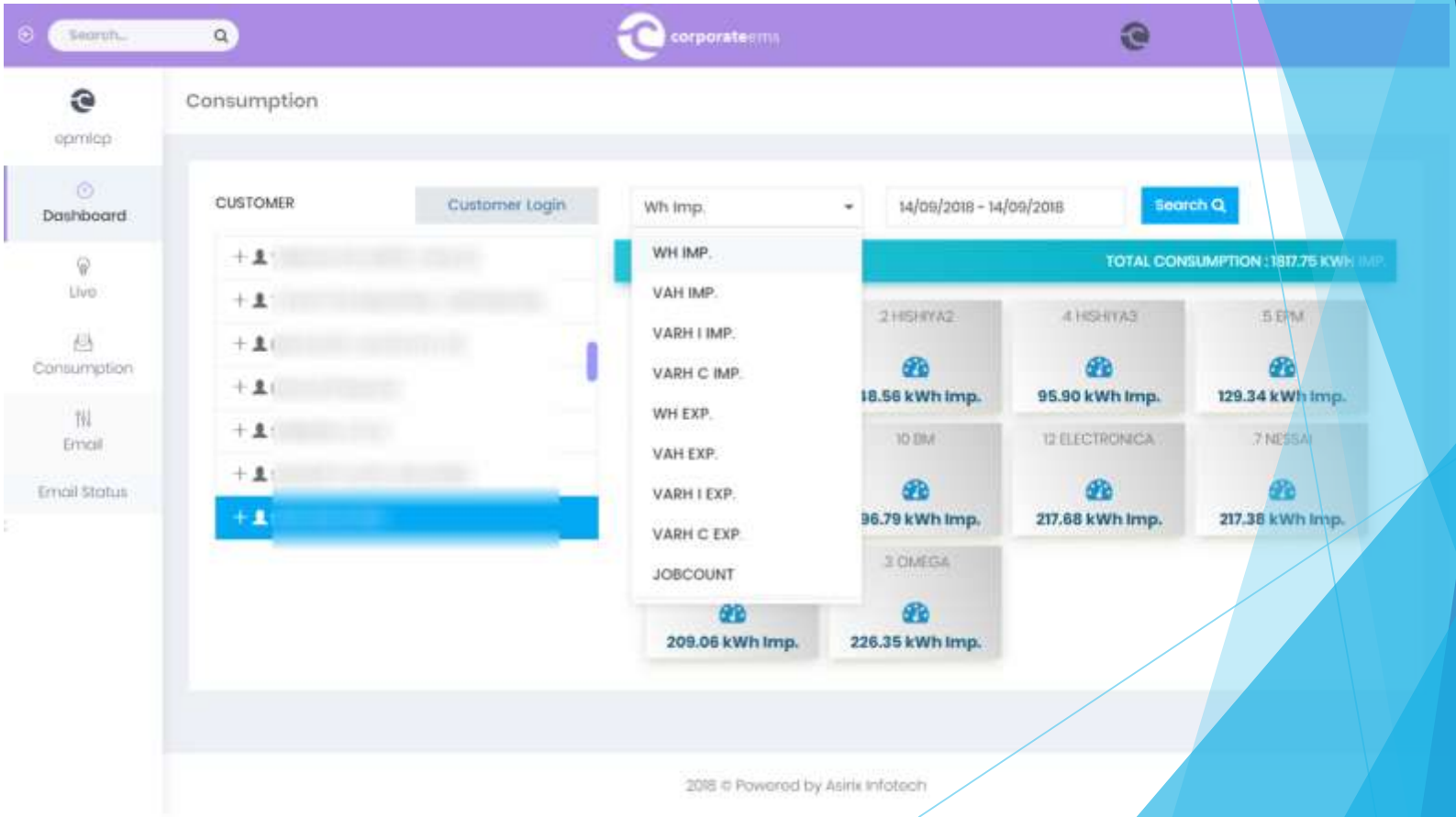
Consumption



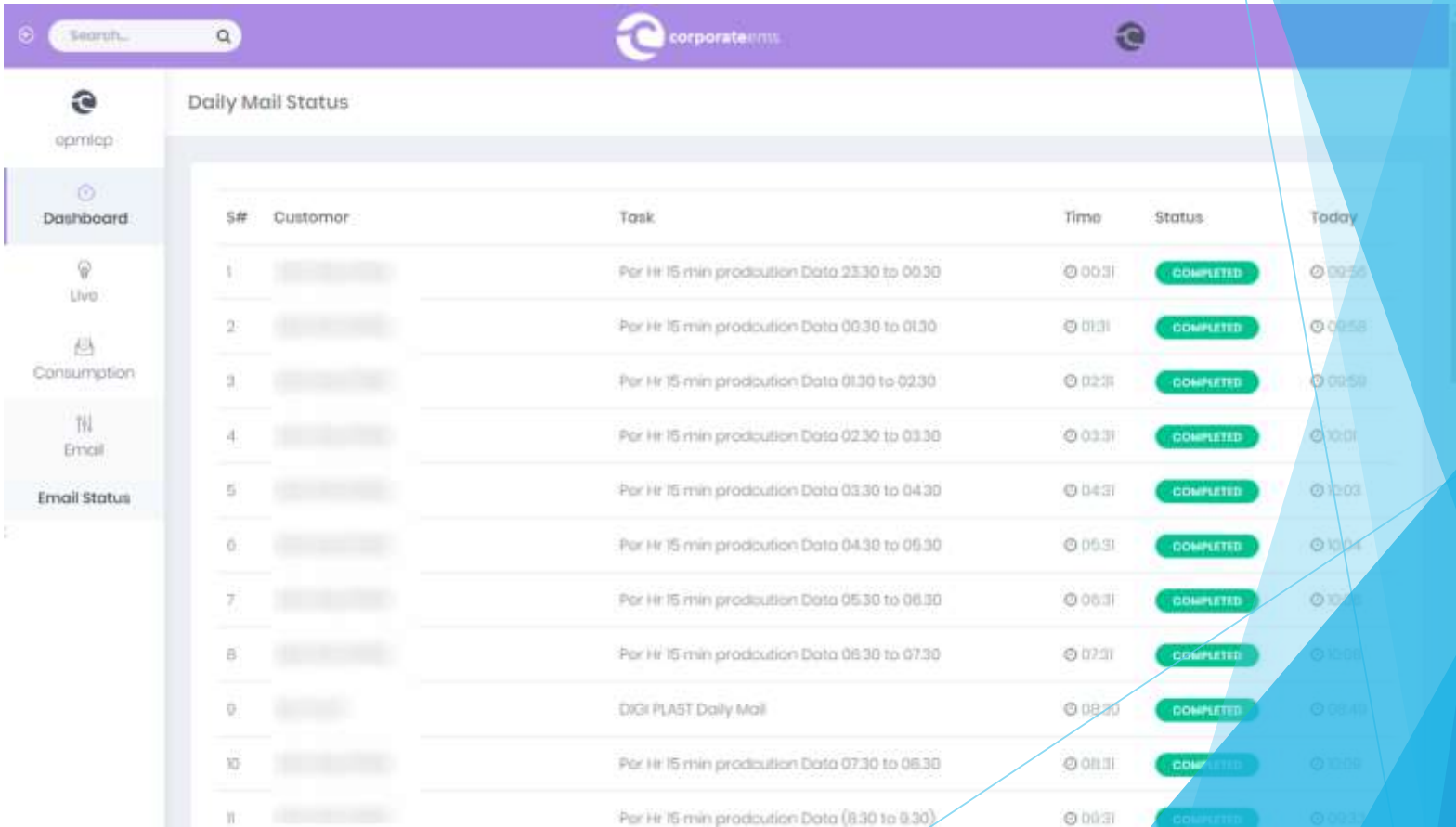
Consumption



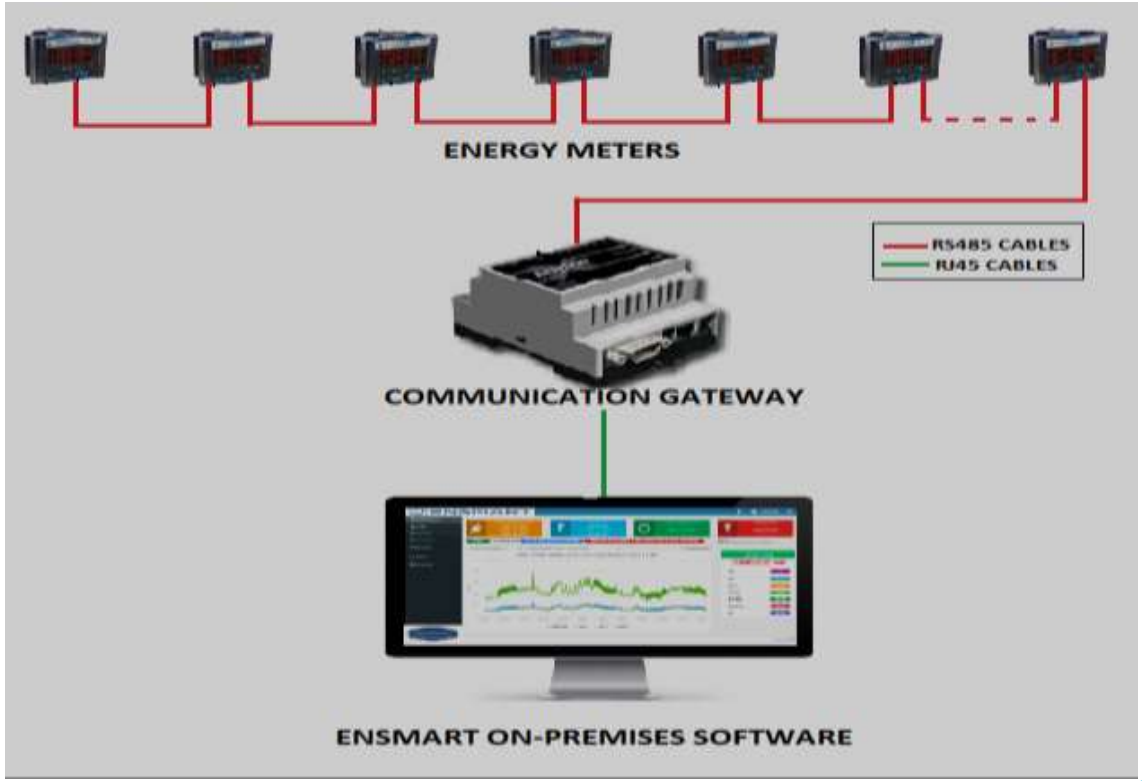
Consumption



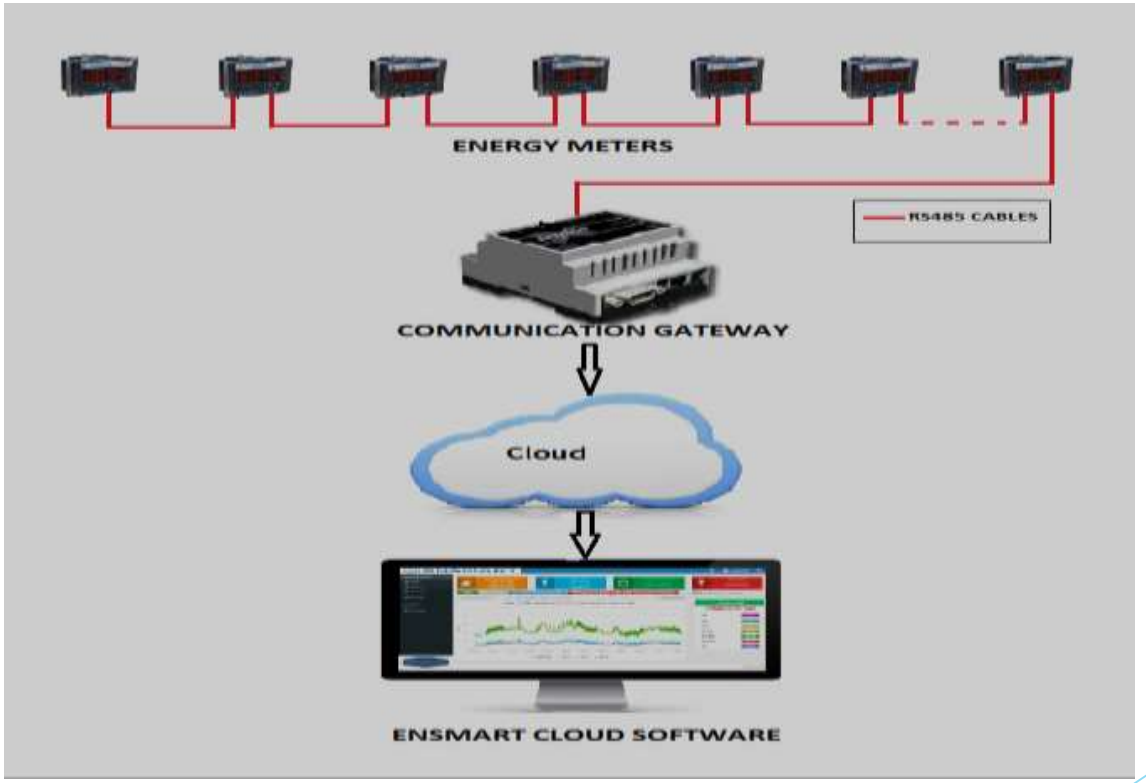
E-mail Status



How MAC-CLOUD On-Premises Software Works



How MAC-CLOUD Cloud Software Works



MAC-CLOUD FEATURES AND ADVANTAGES

FEATURES

- Various parameters like V, A, PF, KVA, kVAr, kW, etc. can be monitored
- Real time Trends and Historical data availability
- Customized Reports Generation
- Provision to set threshold limits and to set Alerts
- Alerts through SMS and E-mails

ADVANTAGES

- Cost Effective Solution
- Easy to Configure and Maintain
- Identifies Inefficient electrical equipment
- Facility to view Real time data and reports in graphical and tabular formats
- By analyzing the reports, better Energy Saving measures can be implemented

Our Clients:

ASHOK LEYLAND

Autoliv

BOSCH

BEARYS GROUP SINCE 1981

AIRPORTS AUTHORITY OF INDIA
(A Public Sector Undertaking - Miniratna-Category-1)
CHENNAI INTERNAIONAL AIRPORT, CHENNAI

TOYOTA

Hindustan Unilever Limited

WELSPUN INDIA
HOME TEXTILES

INDO-MIM
COMPLEXITY SIMPLIFIED

Jayashree Polymers

FOSROC
constructive solutions

Manjush
ADVANCED PACKAGING

microfiber CORP
A STEP ABOVE

ACC
ACC LIMITED

SIMHAPURI ENERGY
POWER TO PROSPER

SPARK MINDA VAST
MINDA VAST ACCESS SYSTEMS

SAINT-GOBAIN

electronica
plastic machine

Sterlite Power

SOGEFI GROUP

भारतीय वायु सेना
INDIAN AIR FORCE

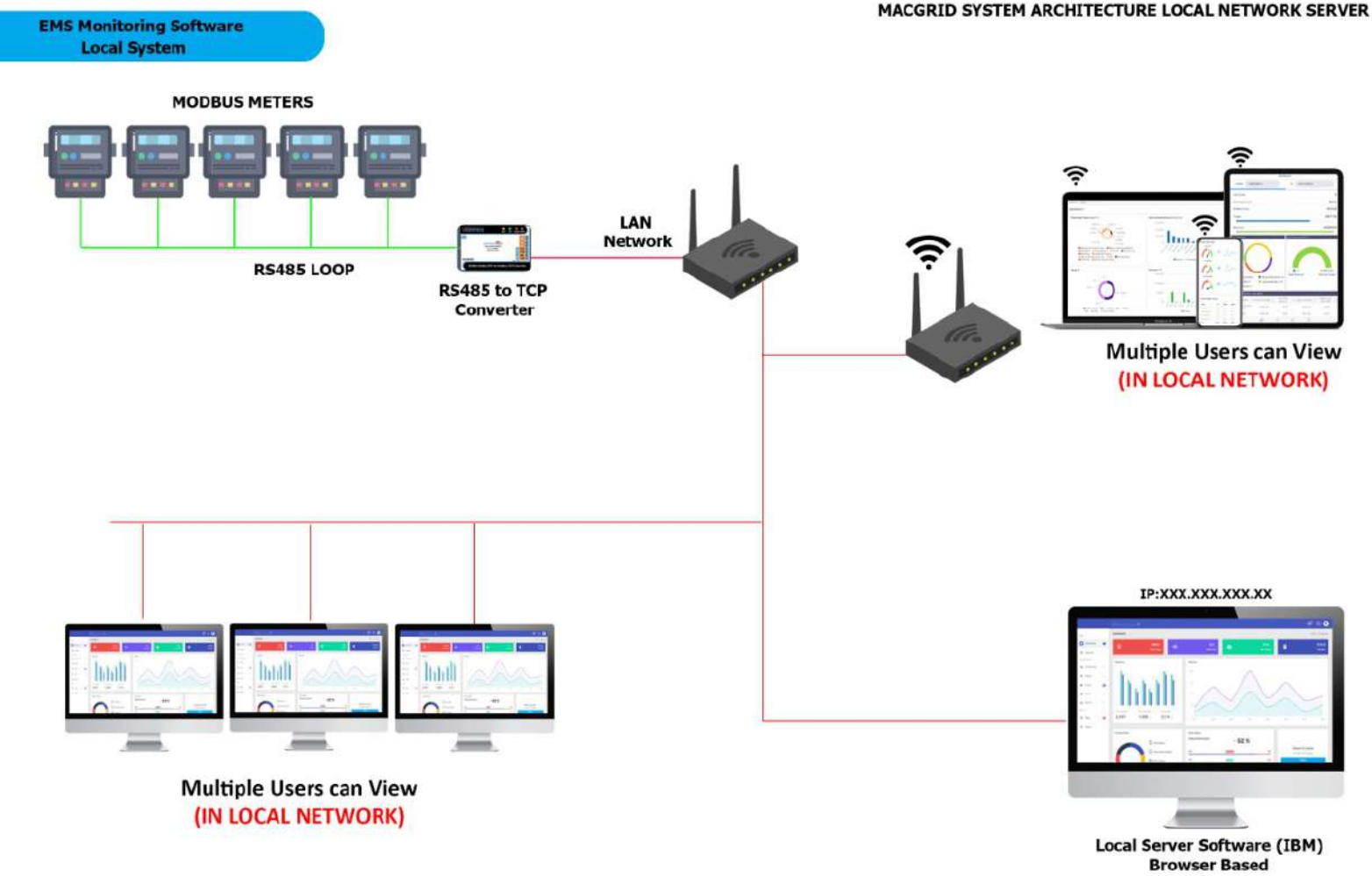
Nandivardhana
Textile Mills LTD

The Singareni Collieries Company Limited
(A Government Company)

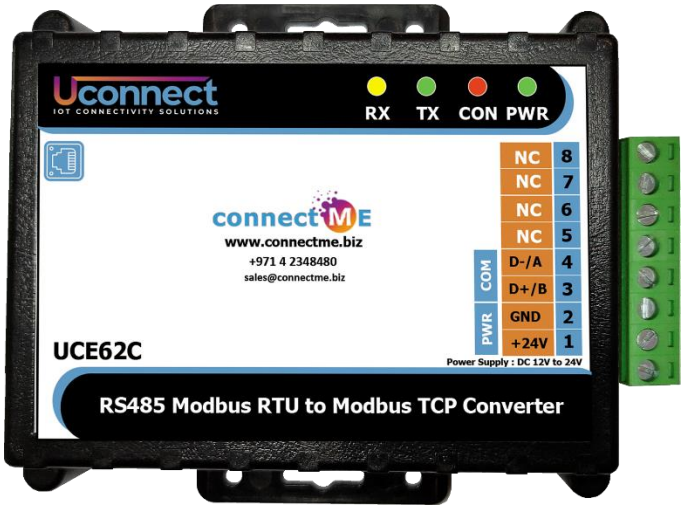
ANY QUERY

THANKS

MACGRID SYSTEM ARCHITECTURE LOCAL NETWORK SERVER



1-A	MAXIMUM NUMBER OF DEVICE	**32 Nos.**
1-B	MAXIMUM CABLE LENGTH	**600 Meters.**
2-A	MODEL NUMBER FOR TCP-MODBUS Converter **(Local System)**	**UEC62C**



2-B	MODEL NUMBER FOR 4G Gateway **(Cloud Server)**	**UC420M**

3-A	In Local system (Can Access EMS Browser Based Software from any device **which is in the same network***)	**YES***
3-B	In Local system (Can Access EMS Browser Based Software form any device **in the world with internet connection****)	**YES****

4G RS485 Modbus Gateway

UC420M

INTORDUCTION

Our smart UC420M Modbus RTU to 4G PRO Gateway with fall back to (GPRS/2G/3G/4G/LTE) Network will expand your Data communication over wireless networks with Secure and two-way communication. The device can collect data from a variety of Modbus Slaves, Sensors, industrial machines, IO data are sent to the centralized server or cloud server. The gateway supports multiple protocols like TCP / Http / MQTT with SSL mode. We can do the configuration by PC Utility or SMS or Server IP Commands and all parameters are remotely configurable. Plug and Play help greatly reduce the prototype development life cycle and provide developers and solution integrators. The easy transition of Wired Network to Wireless Communication using Modbus RTU to 4G Gateway with a simple and cost-effective solution.

Easy to connect single or multiple any standard Modbus slaves and configure selected Modbus registers. Assure no data loss at any condition because of Our Connect Me Proprietary RTOS and inbuilt Intelligent Logger system will take priority tasks.

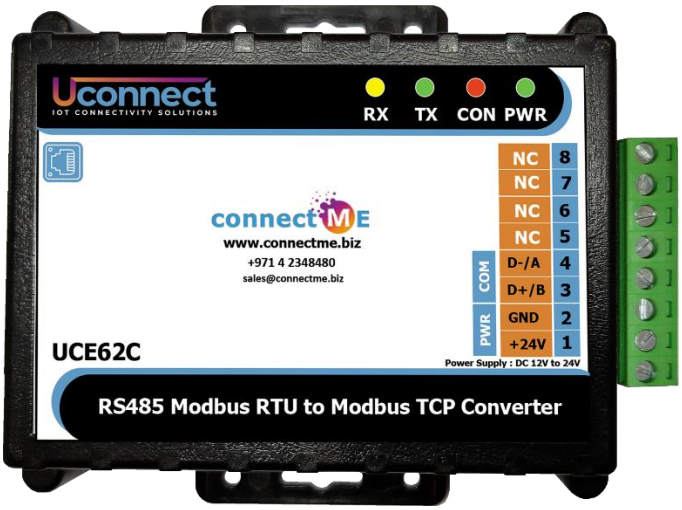
FEATURES

- Intelligent Modbus, IO, Data Logger, GPRS/2G/3G/4G/LTE Connectivity Management
- 1 x RS-485 port for Modbus, 1 x Utility port for Configuration
- Configure and Read Multiple Slave IDs, Selectable Register Address data.
- Parameter Data type, Byte Swapping Conversion and Scaling factor enabled.
- Transparent Modbus or Device Inbuilt Polling – Formatted to (ASCII/HEX/Raw HEX)
- Smart Inbuilt Data Logger works during Network and Server Disconnection
- Logger Sends offline data once Network and Server Connected
- Authorized numbers list for command and Configuring.
- Configurable TCP/Http/MQTT/Https Mode, GET/POST Methods
- Configurable CSV/JSON Format for Parameter Pocketing
- Remote Configuration through SMS/GPRS/Server IP Commands
- Additional 2 x Digital, 2x Analog Chanel (0 to 24V), 1 x 4 to 20mA Chanel and 1xRelay
- Alerts: Power Failure Restore, Low battery Shutdown, Digital IN Changes, Device Reset.
- OTA (Over the Air) Firmware upgrade, Device Configuration update.
- LED indicators to provide GSM, GPRS, Signal, and Modbus TX/RX COM Status.
- Configurable Server Connection: Connects on Demand or Always Connected.
- Keep Alive command to maintain socket connection

RS485 Modbus RTU to TCP Converter

UEC62C

INTORDUCTION



Our smart UEC62C Modbus to Ethernet Gateway will expand your Data communication over wired networks by Ethernet / LAN Gateway with Secure and two-way communication, without in-depth knowledge of Protocol Concepts. Our Smart Modbus Gateways Series replaces the complex approach of sending the Modbus slave data to the centralized server, either single or multiple slaves. Modbus RTU to Ethernet Gateway collects the data through MODBUS (RTU) protocol and sends it to the centralized server through an Ethernet/LAN using TCP or Http mode by JSON or CSV Format. All the Parameter is configurable via Web Portal or PC Utility or Server IP Commands, All configurations are done remotely. Not required to have the device during configurations.

Our generic Modbus to Ethernet Gateway to fetch the Standard Modbus Slave device like Energy meters, Solar Inverters, PLC, Windmill, AMR, IO Modules, Flow Meters and more. The built-in smart data redundancy communication paths of Ethernet IP in RTU Gateway, the data would be guaranteed to transfer your centralized server. We also provide a Cloud-based Graphic interface (based on client requirements) to manage your device machines easily. Users can monitor and control the Slave and I/O data of RTU devices

FEATURES

- Intelligent Modbus, IO, Data Logger, Ethernet/LAN Connectivity
- 1 x RS-485 port for Modbus, 1 x Utility port for Configuration
- Configure and Read Multiple Slave IDs, Selectable Register Address data.
- Parameter Data type, Byte Swapping Conversion and Scaling factor enabled.
- Transparent Modbus or Device Inbuilt Polling – Formatted to (ASCII/HEX/Raw HEX)
- Smart Inbuilt Data Logger works during Network and Server Disconnection

- Logger Sends offline data once Network and Server Connected
- Authorized numbers list for command and Configuring.
- Configurable TCP/Http/MQTT/Https Mode, GET/POST Methods
- Configurable CSV/JSON Format for Parameter Pocketing
- Remote Configuration through Web Portal/Server IP Commands
- Additional 2 x Digital/Analog Chanel (0 to 24V), 1 x 4 to 20mA Chanel.
- OTA (Over the Air) Firmware upgrade, Device Configuration update.
- LED indicators to provide GSM, GPRS, Signal, and Modbus TX/RX COM Status.
- Configurable Server Connection: Connects on Demand or Always Connected.
- Keep Alive command to maintain socket connection