



FourBends
ANALYZE..INNOVATE..EXECUTE.

P  **S**

Power Management System

INTRODUCTION

Power Management System (PMS) - V1.0

Energy source management platform that:

- Enables REMOTE monitoring of your power across renewable and non-renewable energy sources
- Automatically records periodic data for 30 parameters
- Warns you on system health degradation via multiple channels
- Provides historical reports on performance of your energy sources
- Allows Role-based access

CURRENT CHALLENGES



Machinery
getting
Inoperative



Manually noted
documents get
destroyed



Lack of
maintenance
on generator



Human error



Lack of remote
monitoring



Unauthorized
access

USERS



- Power maintenance departments of various entities



Government
Institutions



Corporations



Universities



Hospitals



Trusts managing
places

- Equipment maintenance departments at various genset companies

SOLUTIONS

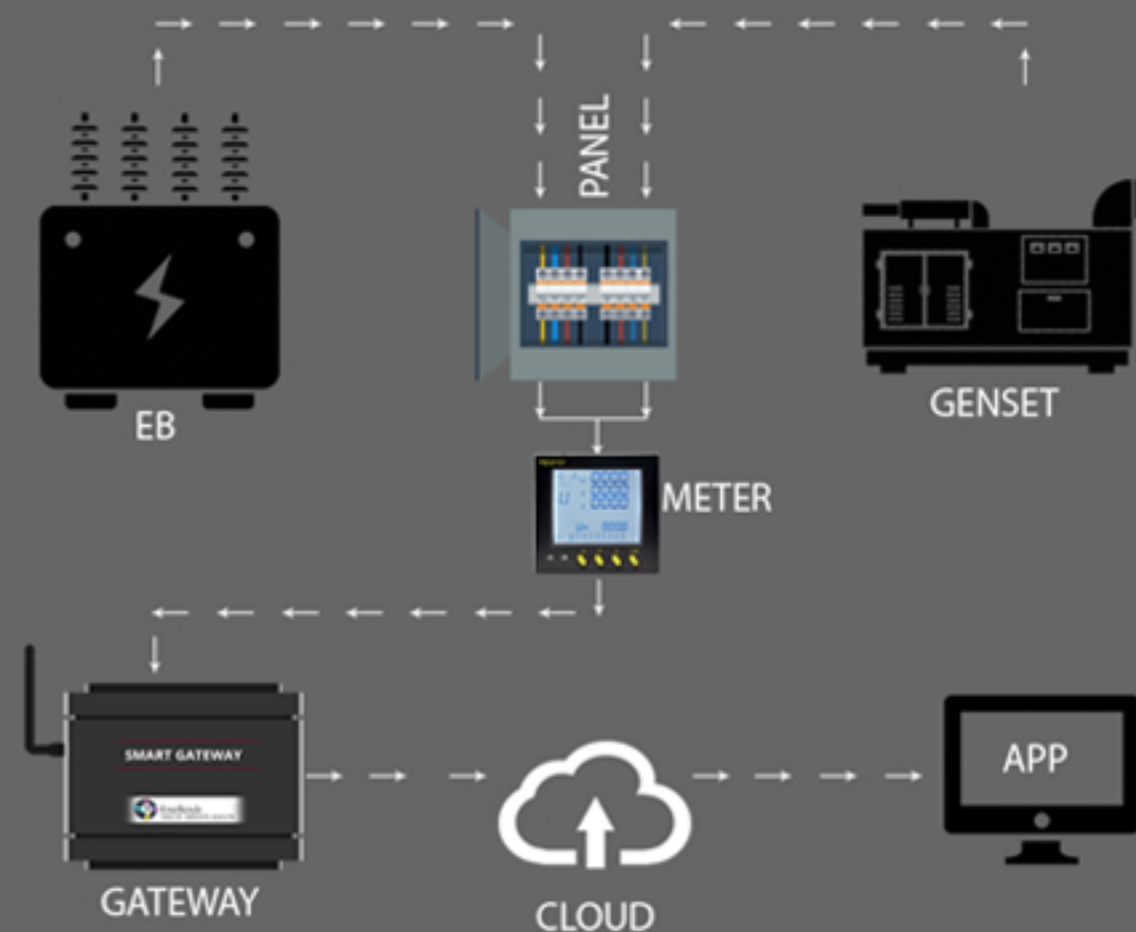


Power Management System is a PLATFORM that enables you to:

- REMOTELY MONITOR all of your power supplies and equipment
- ALERT you in REAL-TIME of issues/warnings
- MAINTAIN the equipment
- Record HISTORICAL data for REPORTING
- SCALABLE to manage hundreds of equipment

PMS DATA COLLECTION FLOW

- Data is collected from Smart meter present at specific locations using proprietary gateways
- Gateways transmit data to the cloud via GPRS/WIFI over highly secured data transfer protocols (UDP, MQTT)
- Data is queued, analyzed, processed by the platform and users are alerted if needed
- Users view the platform for alerts, REALTIME data as well as historical records



PMS FEATURES

DASHBOARD

- Up to the minute information from systems
- Gauges for Amp, Voltage, Frequency, KVA along with limit markings



LIVE GRAPH

- Live Chart representation of main parameters like Frequency, Amp, Single Phase voltage, Three phase voltage and Power



ALERTS & ALERT NOTIFICATION SETTINGS

- Configure Range (Min/Max) Thresholds for various parameters
- Mapping users to alert (sent via email, SMS, voice call)
- View all alerts are logged in the UI



USER MANAGEMENT

- Role-based permission mapping for Manager, Supervisor, Technician
- Assignment of roles to users



WEEKLY CONSUMPTION CHART

- ▶ Chart representation of main parameters like Frequency, Amp, Single Phase voltage, Three phase voltage and Power



DATA EXPORT

- ▶ Configurable reports based on date range can be exported into various standard formats (Excel, PDF, CSV)



COMPLIANCE REPORTS

- **EB Report** - Report for EB parameters like Power Factor, Frequency, Single phase voltage, Three Phase voltage, Total Current, Total Power, KVA, and KWH
- **DG Report** - Report for DG parameters like Power Factor, Frequency, Single phase voltage, Three Phase voltage, Total Current, Total Power, KVA, and KWH.
- **KWH Report** - 1. KWH report for both DG and EB, 2. Consumed KWH between the ON and OFF state of both EB and DG
- **DG Running Hours** - Reports which includes DG ON/OFF, Duration, Fuel consumed
- **Alerts Report** - Report for Minimum and Maximum threshold alerts

GPMS

Running on: Welcome Testpms admin

Home > EB Reports

EB Reports

Data Export
Export data to CSV, Excel/MS and PDF

[Excel](#) [Csv](#) [Xlsx](#) [PDF](#)

From Date: To Date: By: [Submit](#)

Date - Time	Power Factor	Frequency	Total single Phase Voltage	Total Three Phase Voltage	TOTAL Current	Total POWER (KW)	KVA	Kilowatt-hours
02/02/2019 08:18:19 pm	0.81	49.97	241.5767	415.2967	0.15	0.18	0.18	348
02/02/2019 08:17:06 pm	0.81	49.94	241.3133	415.09	0.15	0.18	0.18	348
02/02/2019 08:15:54 pm	0.8	49.94	241.1533	414.7167	0.155	0.18	0.18	348
02/02/2019 08:14:41 pm	0.81	50.02	241.4333	415.0433	0.15	0.18	0.18	348
02/02/2019 08:13:28 pm	0.81	50.02	241.4333	415.0333	0.15	0.18	0.18	348
02/02/2019 08:12:15 pm	0.8	50.04	241.3467	415.17	0.15	0.18	0.18	348
02/02/2019 08:11:03 pm	0.8	50.03	241.2533	414.57	0.155	0.18	0.18	348
02/02/2019 08:09:50 pm	0.8	50.05	241.3067	414.62	0.15	0.18	0.18	348
02/02/2019 08:08:37 pm	0.8	50.06	241.2567	414.39	0.155	0.18	0.18	348
02/02/2019 08:07:24 pm	0.8	50.03	240.9633	413.72	0.15	0.18	0.18	348

1 2 3 Next Last

GENERATOR FEATURES

FUEL SETTINGS

- Configure fuel consumption settings by load percentage
- Automatic fuel consumption calculation (approx)



B- CHECK SETTINGS

- Maintenance reminder configuration
- Automatic reminder to user via SMS, email



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