



Logics PowerAMR

Your Solar Monitoring Partner

IoT Platform for Solar Plant Management and Control

Our Presence



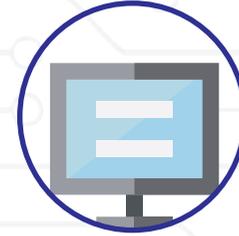
**Solar Plants -
2500+**



**Industries -
150+**



**Power Utilities
5+**



**Monitored
3500+ MW**



**Across
21 states & 150 cities**

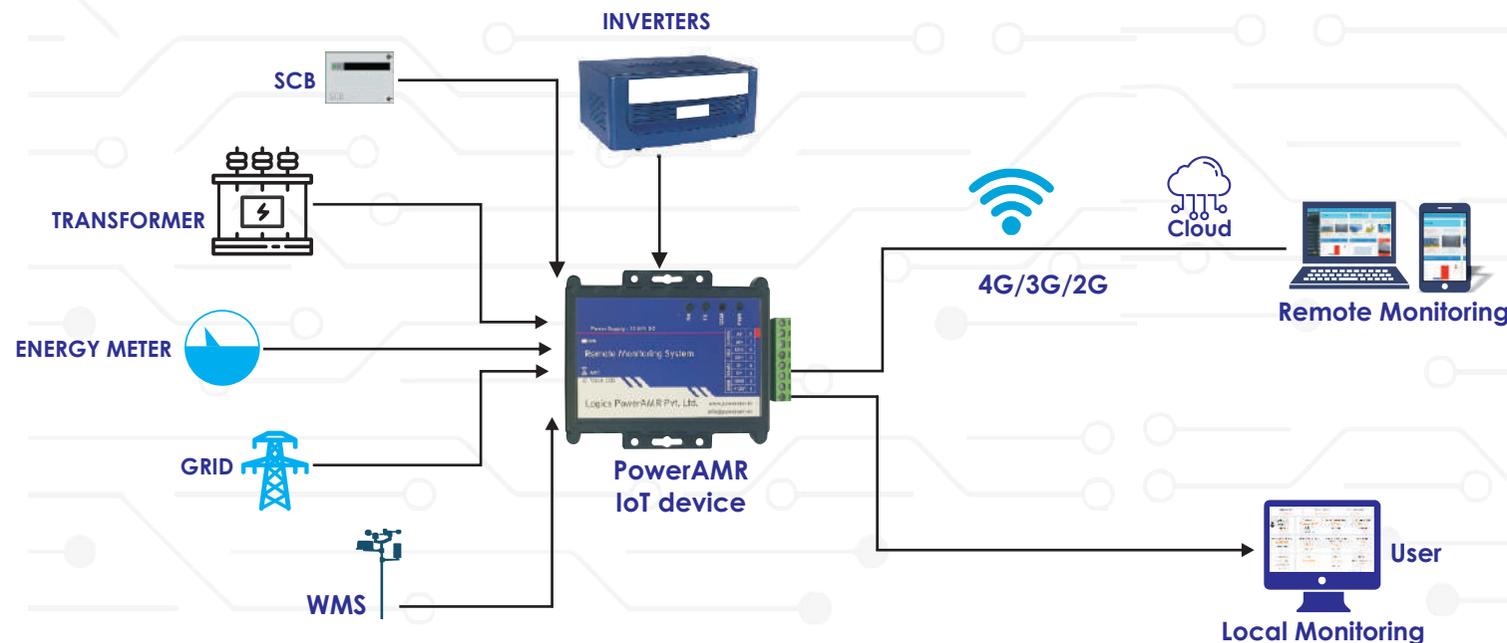
Some of the Prestigious Solar sites include-

- 5 MW Plant at Osiyan, Jodhpur
- 5 MW plant at Warora, Chandrapur
- 1.7 MW Smart City at Kochi, Kerala
- 2.3 MW plant at Panama Solaire, Ludhiana
- 1.7 MW Solar Plant at Air Force Station, Palam, New Delhi
- 1 MW Solar Plant at TMU, Moradabad
- 1 MW at Air Force Station, Bengaluru
- Prominent sites of NTPC, Bhel, Railways, NHPC, ONGC, HPCL, IIT, embassy

IoT Platform for Solar Plant Management & Control

We are technology experts in the field of monitoring system for Rooftop and Megawatt scale solar power plants. PowerAMR IoT based interactive platform, rules & alarms engine combined with advanced analytics helps maximises the solar yield and highly useful for key stakeholders such as asset owners, site operators and maintenance team.

Connects all solar Assets



Interactive Dashboard

Integrated plant control & management through web portal/ mobile app. Performance overview of site



Rules & Alarm Engine

Get alerts via SMS & email on any fault & data anomalies. Improves plant uptime & maximize PR



Advanced Analytics

Deep analysis of underperforming plants. Benchmarking based on relative output, proactive failure detection

IoT based Smart Data Loggers

Remove the hassles of configuration through Laptop
Ensure Zero data loss even during network outage

Logics PowerAMR data loggers are plug 'n' play, most flexible, robust and scalable IoT devices which provides you full access for Monitoring 'n' Control.

These data loggers are compatible with all Grid-Tie, Hybrid and Off-Grid setups, Solar Water Pumping and Building Loads, energy meters, weather stations, string monitoring systems, switchgears and analog, digital and MODBUS enabled sensors.

Available in



GPRS



4G



LAN



WiFi



Lora



RF

4G Advance

E Track 4G Advance is a Modbus IoT Gateway compatible with 3G-4G- GPRS communication.

Key Features

- Inbuilt logger and Multiple IOs enabled
- Supports multiple protocol- TCP/http/MQTT- SSL enabled
- Remotely configured and OTA upgrade



Wide Range of Data Logger & RTU

E Track Series

- Plug n Play to all inverters, energy meters, battery and switchgear
- Built in data storage ensures zero data loss
- Integrates with all weather sensors
- Data pool during communication outage
- Battery feature captures real time outage alerts and outage time
- Delivered with IP-65 Enclosure
- Upto 6 months local data storage
- Available in 4G, GPRS, Wi Fi, LAN, Lora, RF

PWR 905

- PWR 905 is a smart RTU designed to transmit Modbus and Modbus TCP/ IP data
- Protocol Supported: Modbus RTU, RS485, Modbus TCP/IP.
- Compatible with all central and string Inverters.
- Supports 6 Analog sensors .
- Inbuilt memory: 8 GB
- Input Supply: 12-24 VDC.
- No. Ports: 1nos. RS485, 1nos. TCP/IP, 6 DI, 6 AI, 4 DO Ports

PWR 405 : DLMS RTU

- PWR-405 is a Ultra-low power RTU, which allows almost any RS232 DLMS devices / energy meter to transmit data through GPRS / Ethernet network.
- Supports all Solar and Net meters including billing meter.
- Compatible with 1 no. Energy Meter /Off Grid Inverter.
- Protocol Supported : DLMS, RS232.
- Input Supply: 12-24 VDC..



Key Deliverables



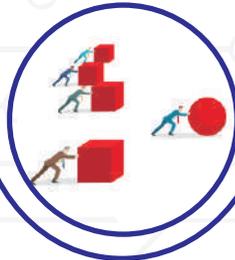
Track performance
Real time



Spot and predict
failures
Instantly



Provide proactive
maintenance- reduce
O&M cost by
40%



Increase generation
efficiency
20%
Energy
Saving through
identification of
underperforming plants



Giving you a full
control over your
system without actually
being present-
24*7

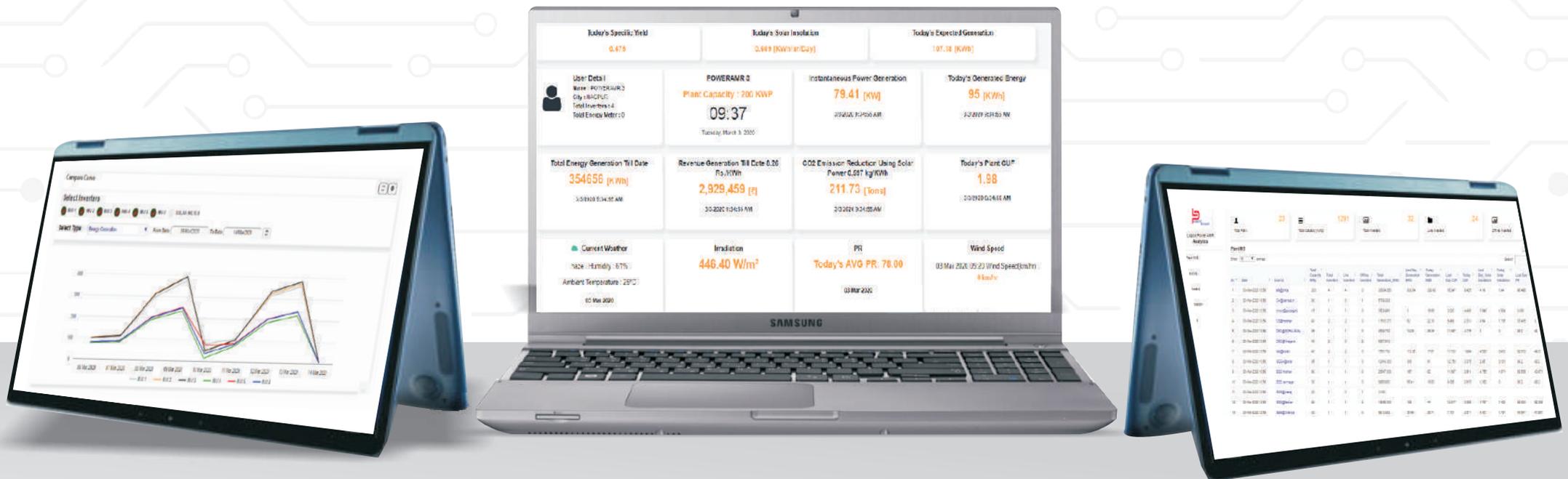
Management Dashboard

Key outcomes

- Management & Control of Multiplant Portfolio from a single dashboard
- Provides actionable insights to Management

Parameters

- Compare multiple plants across technology and various parameters on single dashboard



Weather Dashboard

Key outcomes

- Track weather conditions of plant
- Helps to predict generation losses & get alerts for maintenance
- Integrates with all makes and models of weather station

Parameters

- Captures weather parameters like wind speed & direction, Humidity, air and module temperature, Air Pressure
- Solar Irradiation v/s Power v/s PR curves.



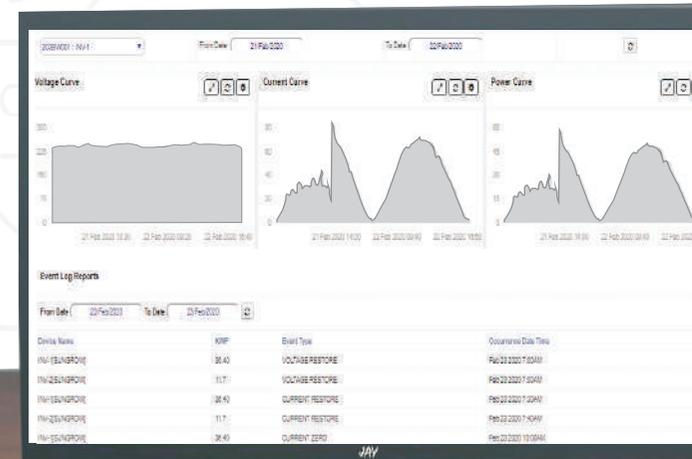
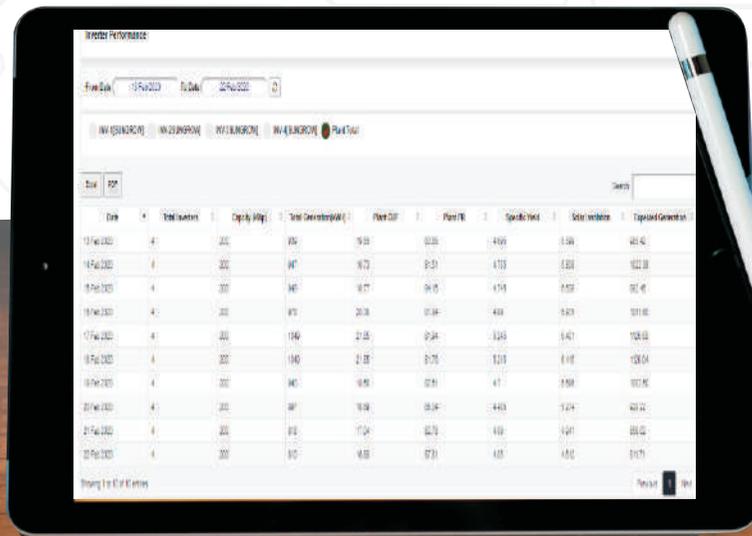
Analytics & Custom Alerts

Key outcomes

- Overall Performance Management of the Plant
- Helps identify underperforming plants with reasons

Parameters

- Allows multiple graph view on single dashboard
- Reporting of Critical Health parameter
- Selectable Parameter Comparison of devices of same/ different plant



Generation Analysis

Key outcomes

- Complete Energy reporting of plant
- Energy trends v/s expected generation

Parameters

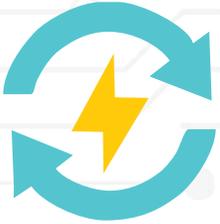
- Daily, weekly and flexi period energy reporting
- Energy analysis and comparatives of transformer, Solar meter, net meter

To Date: 22-Feb-2020

Day Total [KWH]	INV-1 KWH [Cumulative]	Inv. Day Total[KWH]	INV-2 KWH [Cumulative]	Inv. Day Total[KWH]
	21080.0		19371.0	
4474	21441.0	361	19733.0	362
4405	21794.0	353	20088.0	355
2396	21981.0	187	20274.0	186
3080	22123.0	142	20512.0	238
3154	22361.0	238	20747.0	235
1995	22838.0	327	21073.0	328

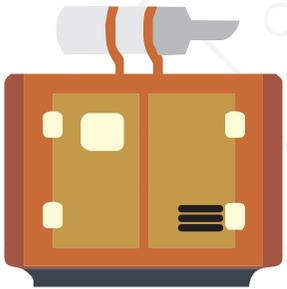


Zero Export



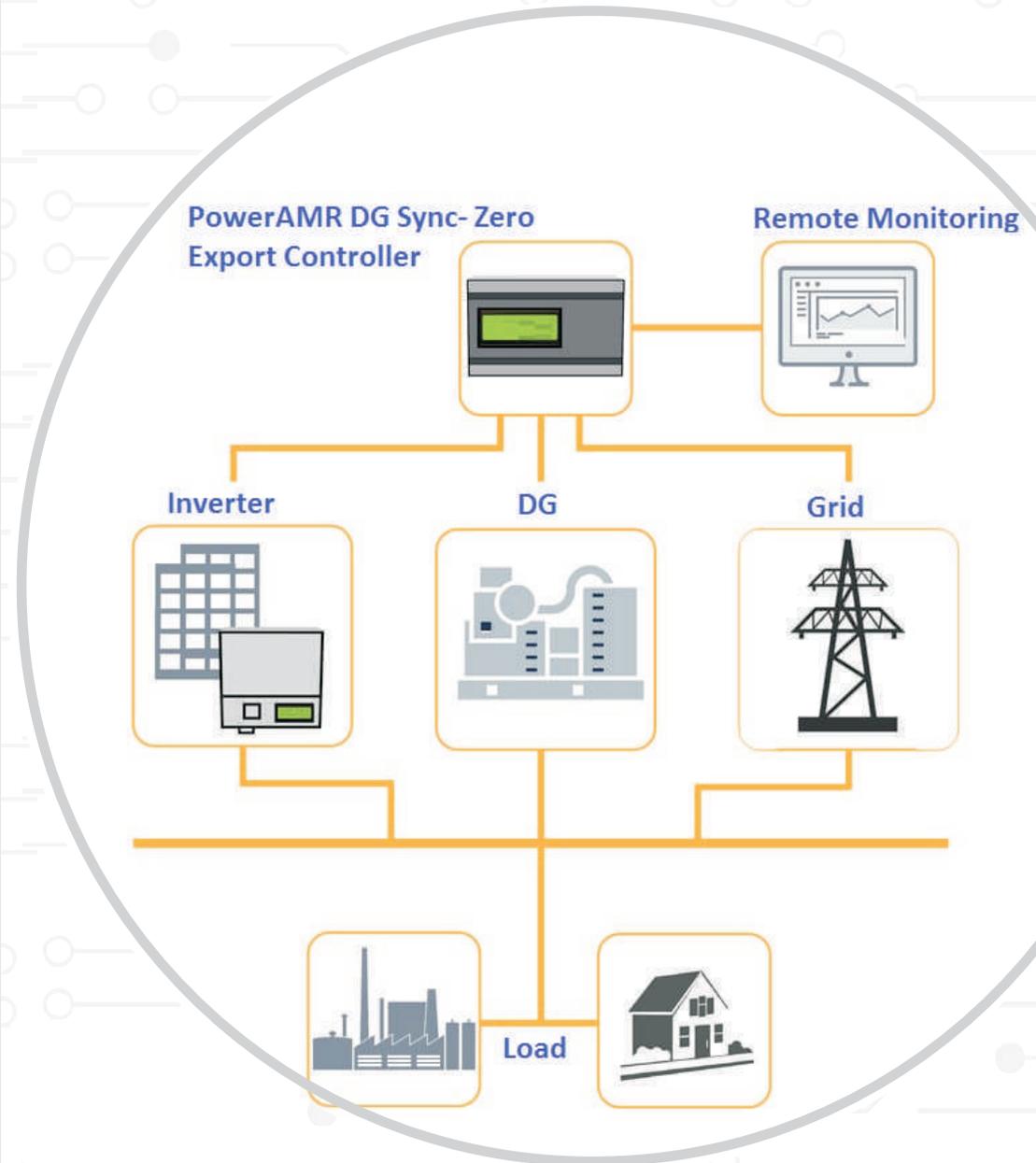
On sites with no Net Metering, the Power output of inverters is throttled to optimize total energy generation for captive consumption and enforce zero export of energy to the grid.

DG Synchronization



Smartly Distributes the total demanded load between Solar and DG in such way that the DG runs at the minimum possible load

Power Control

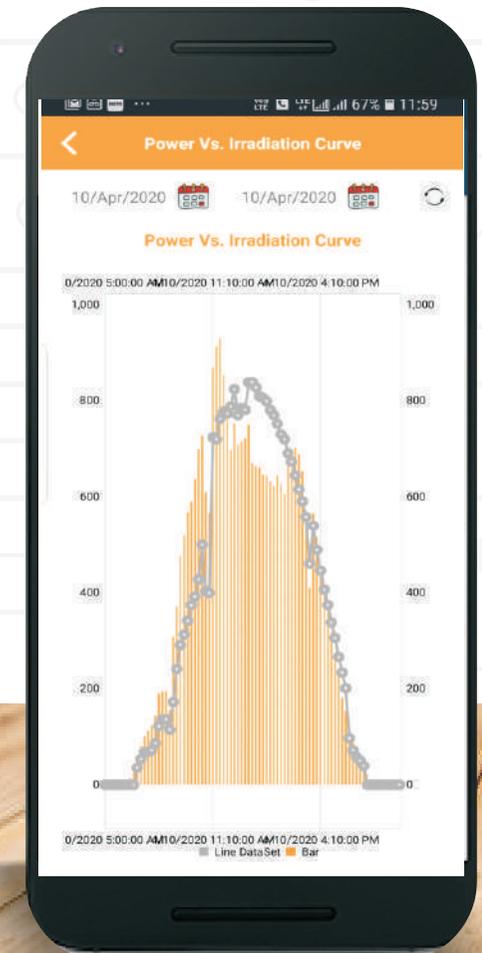


Mobile App

Access all plants through touch of your mobile

Key Outcomes

- Instant online and offline access
- Push notifications and instant updates
- Branding and Design for your Company
- Generation improvement & Cost reduction



100+ Compatible Brands

Compatible with 100 + solar inverters

SUNGROW

HITACHI
Inspire the Next

solar**edge**

SOLA X POWER

Ingeteam

POLYCAP
Connection Zindagi Ka

Su-Kam

DELTA

HUAWEI

Fronius

REFU**sol**

LUMINOUS

WAAREE®
One with the Sun

KSTAR

solis

SMA

ABB

Schneider
Electric

GOODWE
YOUR SOLAR ENGINE

STATCON
ENERGIAA

K A C O

zeversolar

Growatt

K Solare
Energy Pvt. Ltd.

HAVELLS

SOFAR
SOLAR

CHNT
POWER

UTL

Compatible with all Discom and Industrial Energy Meters

dlms
device
language
message
specification

Genus
energizing lives

Landis
Gyr+
manage energy better

SECURE

Itron

elster

HPL

L&T Electrical & Automation

Other Offerings

- Energy & Water Management System
- Theft Detection through Meter Data Analytics
- CMRI/ Hand Held Applications
- Billing Management System
- ABT Management System

Site installations





Thank
You

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