Energy Management for PV plants

m2mLOggER®

remote monitoring eco-system

SolarFRONT.

Real-time PV energy management cloud.

On-Grid • Off-Grid • Hybrid

Bring **transparency** to O&M & **improve** generation of Distributed Solar PV plants

Features

- Powerful Asset Management
- Manage Portfolio with drill-down dashboards
- Razor-shar insights!
- Out-of-box, Self-service reporting
- Secure & Reliable

▲ **0.5%** PLANT GENERATION

▼ **80%** REPORTING MAN HOURS
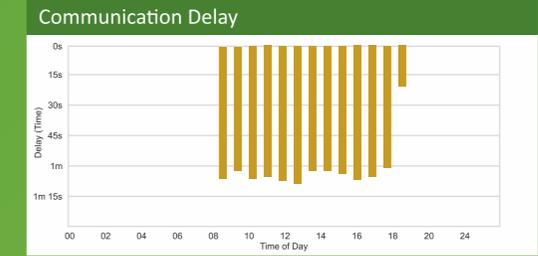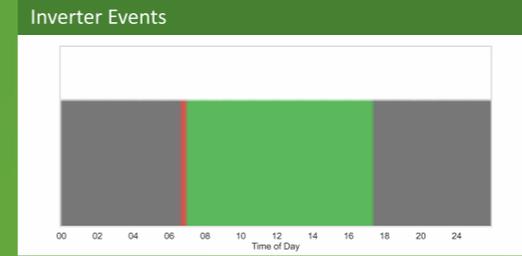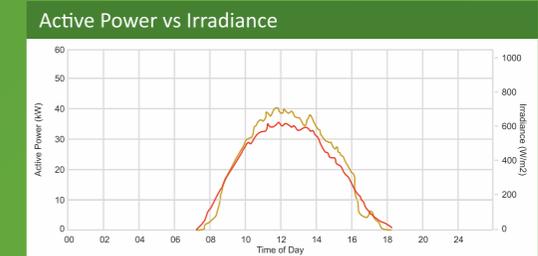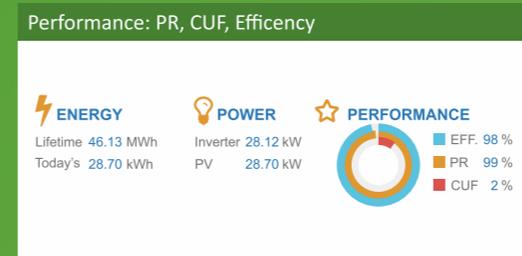
▲ **0.5%** PLANT UPTIME

▼ **70%** FIELD VISIT MAN HOURS

Compatibility

ABB | Schneider Electric energy for everybody | zeversolar | KSTAR
HUAWEI | SMA | REFUsol | GOODWE
SUNGROW | ΔELTA | POLYCAB SOLAR | HBL HBL Power Systems Limited
STATCON ENERGIAA | Growatt powering tomorrow | Fronius | KACO
WAAREE One with the Sun | TBEA
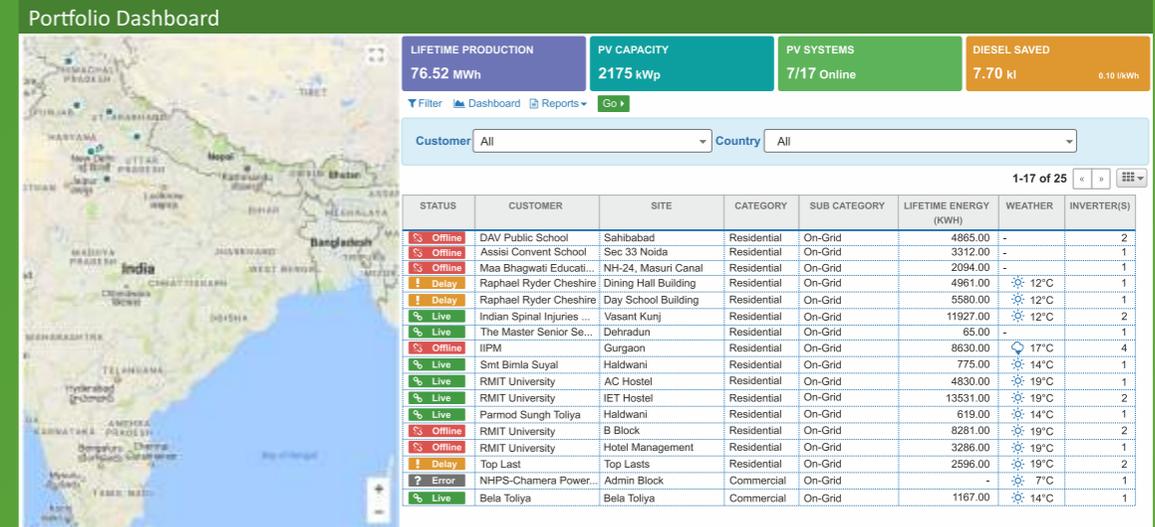
Individual Homes • Corporate Offices • Shopping Malls • Industries • Schools & Colleges • Institutions

Powerful **Asset management** tools

Portfolio Dashboard

LIFETIME PRODUCTION **76.52** MWh	PV CAPACITY **2175** kWp	PV SYSTEMS **7/17** Online	DIESEL SAVED **7.70** kl 0.10 l/kWh

Filter · Dashboard · Reports · Go ▶

Customer: All   Country: All

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STATUS	CUSTOMER	SITE	CATEGORY	SUB CATEGORY	LIFETIME ENERGY (KWH)	WEATHER	INVERTER(S)
Offline	DAV Public School	Sahibabad	Residential	On-Grid	4865.00	-	2
Offline	Assisi Convent School	Sec 33 Noida	Residential	On-Grid	3312.00	-	1
Offline	Maa Bhagwati Educati...	NH-24, Masuri Canal	Residential	On-Grid	2094.00	-	1
Delay	Raphael Ryder Cheshire	Dining Hall Building	Residential	On-Grid	4961.00	12°C	1
Delay	Raphael Ryder Cheshire	Day School Building	Residential	On-Grid	5580.00	12°C	1
Live	Indian Spinal Injuries ...	Vasant Kunj	Residential	On-Grid	11927.00	12°C	2
Live	The Master Senior Se...	Dehradun	Residential	On-Grid	65.00	-	1
Offline	IIPM	Gurgaon	Residential	On-Grid	8630.00	17°C	4
Live	Smt Bimla Suyal	Haldwani	Residential	On-Grid	775.00	14°C	1
Live	RMIT University	AC Hostel	Residential	On-Grid	4830.00	19°C	1
Live	RMIT University	IET Hostel	Residential	On-Grid	13531.00	19°C	2
Live	Parmod Sungh Toliya	Haldwani	Residential	On-Grid	619.00	14°C	1
Offline	RMIT University	B Block	Residential	On-Grid	8281.00	19°C	2
Offline	RMIT University	Hotel Management	Residential	On-Grid	3286.00	19°C	1
Delay	Top Last	Top Lasts	Residential	On-Grid	2596.00	19°C	2
Error	NHPS-Chamera Power...	Admin Block	Commercial	On-Grid	-	7°C	1
Live	Bela Toliya	Bela Toliya	Commercial	On-Grid	1167.00	14°C	1

Performance: PR, CUF, Efficency

ENERGY
Lifetime 46.13 MWh
Today's 28.70 kWh

POWER
Inverter 28.12 kW
PV 28.70 kW

PERFORMANCE
EFF. 98 %
PR 99 %
CUF 2 %

Active Power vs Irradiance

Yield Charts

Shadowing Losses

Inverter Events

Communication Delay

Industrial **Data-Loggers & Cloud Gateways**

EZLink series
For light-commercial & residential applications

Cloud Connectivity
4G GPRS,
Data-storage, Inbuilt RTC

MODBUS RTU RS485
4-20mA Analog Inputs

LogPRO series
For commercial & light-commercial applications

Ethernet,
4G GPRS Connectivity

Cloud Connectivity
USB & FTP
data recording

Over-the-Air
upgrades

MODBUS RTU RS485
MODNET enabled
4-20mA Analog
Inputs

Weather Sensors

Radiation
Sensor

Anemometer
Ultrasonic

Rain Gauge
Tipping bucket
type

Pyranometer
Class 2

Ambient
Temperature
& Humidity
(with Solar Shield)

Module
Temperature

Components

PV & Weather Sensor
- String Level, Zone Level Monitoring
- Irradiance, Ambient Temperature, Module Temperature

Inverter
- Generation
- MPPT
- Status & Fault Codes

Battery
- Charging & Discharging
- Voltage & Current

Data-Logger & Gateway
- Data capture & transmission

Meters
- Load metering
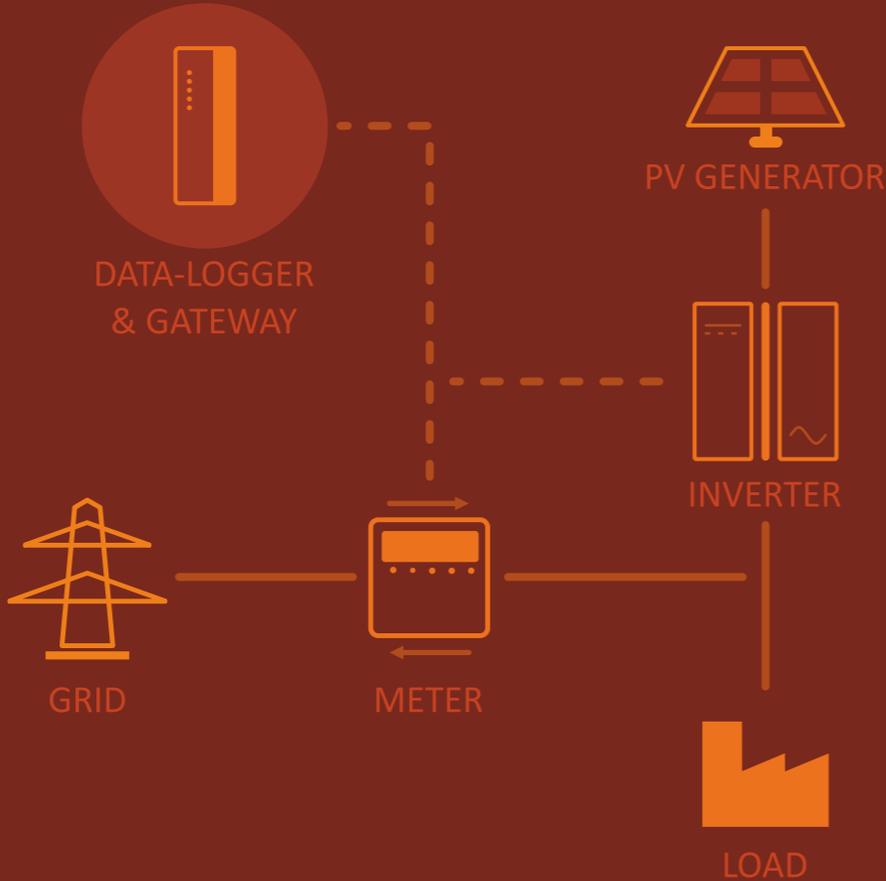- Net metring
- Zero Feed-In

Grid
- Grid monitoring

Zero Feed-In

Benefits

- ⊘ Reliable grid code compliance
- ⊘ Suitable for PV systems with different inverter types
- ⊘ Quick and easy commissioning
- ⊘ No programming required

If there is severe grid congestion or in absence of net-metering - grid operators require that no PV system feed the electricity into the public grid. As such, zero feed-in / zero export schemes need to deployed to curtail PV system power output.

DATA-LOGGER & GATEWAY

PV GENERATOR

INVERTER

GRID

METER

LOAD

Indian Spinal Injuries Center, Delhi, 130kWp

Raphael Ryder Cheshire, Dehradun, 50kWp

IIPM, Gurgaon, 100kWp

Vidhyut Bhawan, Patna, 25kWp Hybrid

NTPC Netra, Noida, 50kWp

RMIT University, Punjab, 360kWp

M2MLogger
An ISO 9001:2015 Certified Company

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