



**Logics PowerAMR Pvt. Ltd.**

***Powering Profit***



**For Details, contact  
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# Energy Meter/ Solar meter/ Net meter / DLMS Meter Solution



## Solution offerings on DLMS Protocol- Solar and Net Meter

PWR-405 & PWR- 205 is a Ultra-low power RTU, which allows almost any RS232 DLMS devices/ energy meter to transmit data through GPRS / ethernet network.



## Key features of Solution

- **Easy and Fast Integration** with any DLMS meter
- **Flexibility** to network any make of consumer/ solar meter / net meter
- **Supports** data monitoring of multiple DLMS meter at a given location
- **Flexibility** to share data across enterprise
- **Empowers** to control energy costs through its 360 degree reporting and intelligent analysis modules.
- **Real Time** Power Monitoring
- **Access** anywhere, anytime through Web portal
- **Data Historian** for quality analysis
- **E Mail** Reporting
- **Automated** billing provision

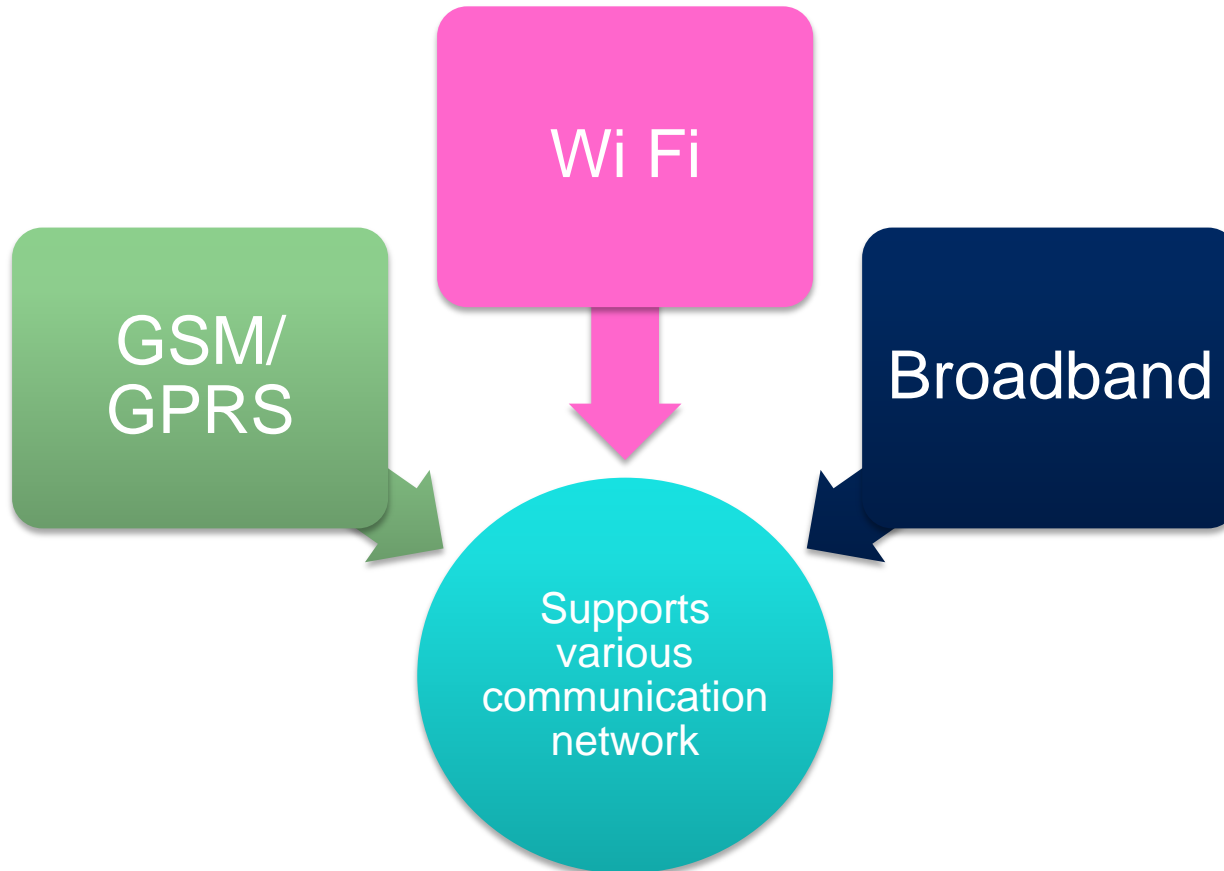


**Plug and Play System**

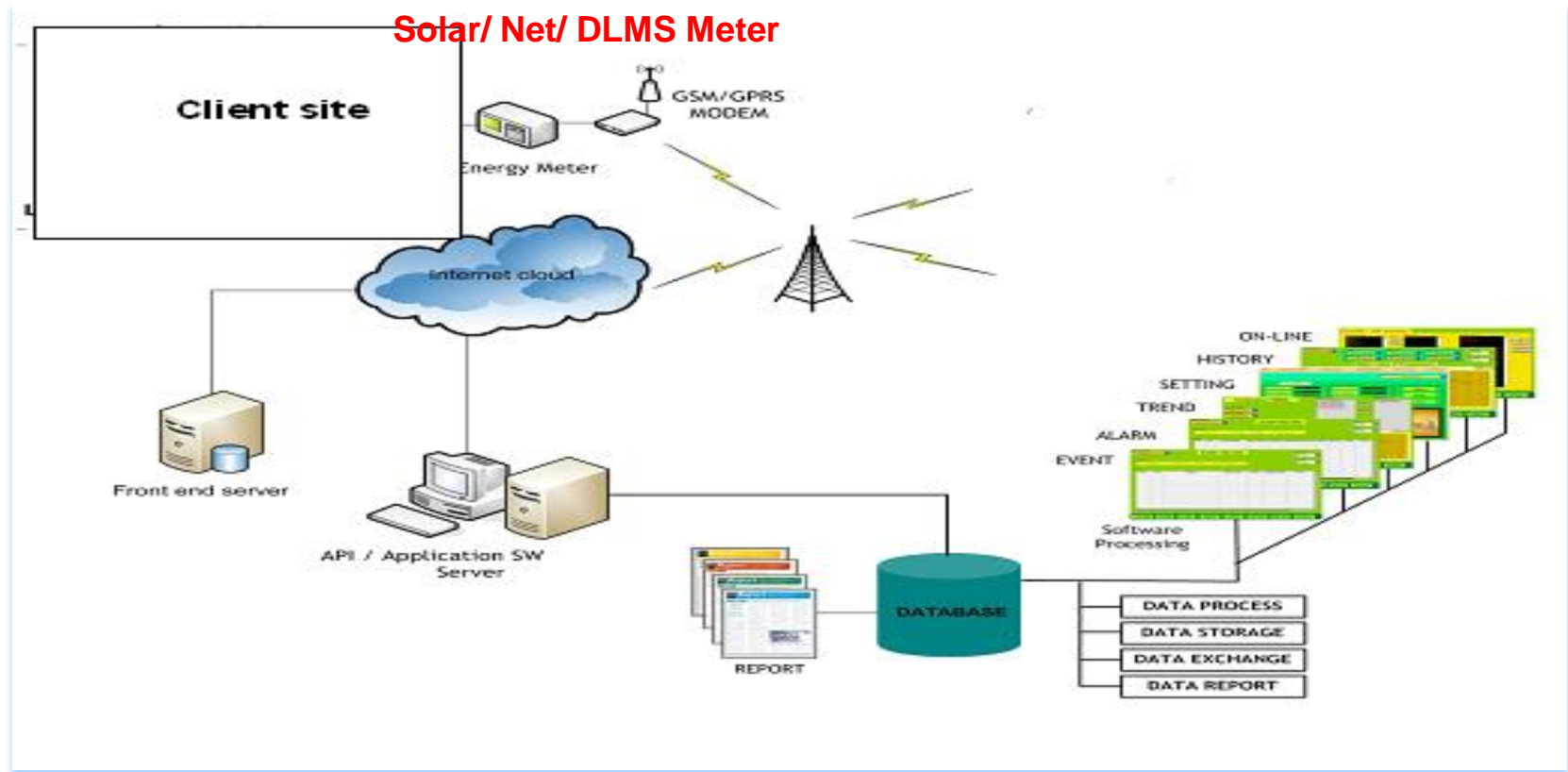
## Key Features of Data Logger

- Auto Configurable through server- no need for person to configure through laptop or on site troubleshooting
- Can support any DLMS meter- device interchangeable from one site to another

## RTU Connectivity- Multiple options



# Solution Architecture on GPRS



## MDAS ( meter data acquisition software features)

- LAN/ GPRS/ Wi fi based RTU connected through RS 232 port of the any DLMS make DLMS meter.
- Polling Interval- 15 minute, 30 minute, Customizable
- Provision to share Data with the client at every 15 minute interval as per desired format eg CSV, XML, raw data file etc.
- Provision for data extraction and sharing through BCS software for billing.
- Freely configurable over Secure and Genus Make DLMS meter- all models, all makes



# Web portal - User Interface

- Dashboard
- PR Analysis
- Generation Analysis
- Energy Reporting
- Inverter Performance
- Forecasting
- GIS
- User Details
- Event Log Reports

CO2 Emission Reduction Using Solar  
Power 0.597 kg/KWh

**0 [Tons]**

2/27/2020 10:50:17 AM

Name: **17 . APPLIED SCIENCE-19**

Make: SECURE

Capacity: 100.1 KWp

Life KWh: 4345.22 KWh

KW: 0.00 KW

Peak KW: 0.35 KW

[Feb 27 2020 12:15AM]

Status: **Offline**

**User Detail**

Name : GBU Noida

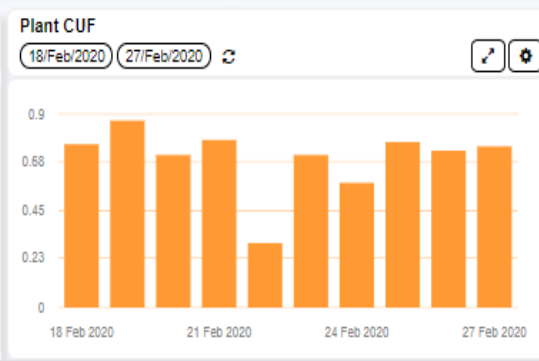
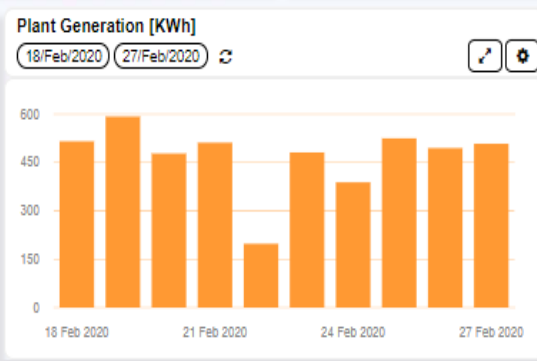
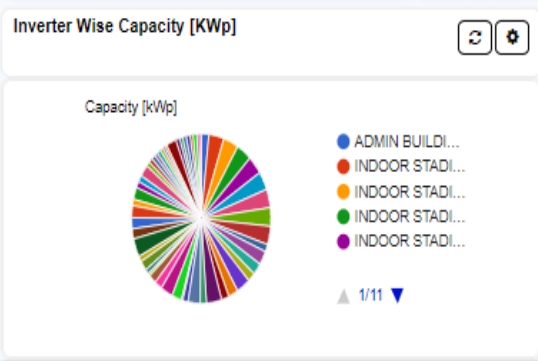
City : GREATER NOIDA

Total Inverters :

Total Energy Meter : 55

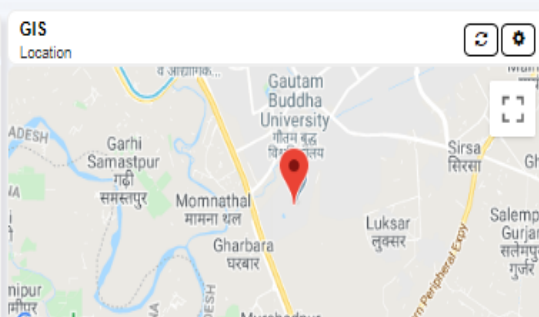
**10:51**

Thursday, February 27, 2020



**Inverter Details**

SN	ID	S_ID	Name	Make	Capacity [KWp]	Life KWh	Date	KW
1	XD473797	010	ADMIN BUILDING-01	SECURE	50.05	4322.92	2/27/2020 12:30:00 AM	0.00
2	XC401768	011	INDOOR STADIUM-46	SECURE	100.1	3809.15	2/27/2020 12:30:00 AM	0.00
3	XC467937	012	INDOOR STADIUM-47	SECURE	100.1	3913.52	2/27/2020 12:15:00 AM	0.00



# Energy Reporting

- **Billing Data- includes both import and export readings**
- Readings
- Daily Energy
- Week Energy
- Monthly Energy
- Total Energy Generation Curve

# Billing Data

SN	METERNO	NAME	Initial Reading Date	Final Reading Date	Initial Imp kWh	Final Imp kWh	Imp_Diff	Initial Exp kWh	Final Exp kWh	Exp_Diff	Gen. (Imp-Exp)	MF	Net Reading kWh
1	XD473797	ADMIN BUILDING-01	27 Jan 2020	27 Feb 2020	3943.3800	4322.9200	379.54	2.6000	2.8500	0.25	379.29	15	5689.35
2	XC401768	INDOOR STADIUM-46	27 Jan 2020	27 Feb 2020	3512.3500	3809.1500	296.8	1.2500	1.3400	0.09	296.71	30	8901.3
3	XC467937	INDOOR STADIUM-47	27 Jan 2020	27 Feb 2020	3616.9300	3913.5200	296.59	1.1600	1.2500	0.09	296.5	30	8895
4	X0658688	INDOOR STADIUM-48	27 Jan 2020	27 Feb 2020	3197.2900	3480.8800	283.59	1.1600	1.2600	0.1	283.49	30	8504.7
5	X0658684	INDOOR STADIUM-49	27 Jan 2020	27 Feb 2020	3140.3900	3435.1700	294.78	1.0600	1.1500	0.09	294.69	30	8840.7
6	XC467939	INDOOR STADIUM-50	27 Jan 2020	27 Feb 2020	2880.6300	3196.4700	315.84	0.9000	1.0000	0.1	315.74	30	9472.2
7	XC462867	INDOOR STADIUM-51	27 Jan 2020	27 Feb 2020	3433.3300	3728.2800	294.95	1.1200	1.2100	0.09	294.86	30	8845.8
8	XC467915	INDOOR STADIUM-52	27 Jan 2020	27 Feb 2020	3115.1200	3412.1700	297.05	1.8100	1.9100	0.1	296.95	30	8908.5
9	X0440524	INDOOR STADIUM-53	27 Jan 2020	27 Feb 2020	2997.8400	3290.5900	292.75	1.0600	1.1600	0.1	292.65	30	8779.5
10	XC467938	INDOOR STADIUM-54	27 Jan 2020	27 Feb 2020	1627.5300	1862.8300	235.3	1.5700	1.6600	0.09	235.21	15	3528.15
11	X0658657	CRICKET STADIUM-13	27 Jan 2020	27 Feb 2020	2843.9400	3144.7600	300.82	0.8400	0.9100	0.07	300.75	25	7518.75

# Daily Readings

## Solar Energy Generation (kWh)

From Date: To Date: [Show](#)[Export to Excel](#)

Date_Time	Total KWH [Cumulative]	SOLAR METER [SECURE] KWH [Cumulative]
01 Nov 2018	57830.8	57830.8
02 Nov 2018	58262.4	58262.4
03 Nov 2018	58695.2	58695.2
04 Nov 2018	59079.2	59079.2
05 Nov 2018	59489.6	59489.6
06 Nov 2018	59869.6	59869.6
07 Nov 2018	60289.6	60289.6
08 Nov 2018	60691.6	60691.6
09 Nov 2018	61080.4	61080.4
10 Nov 2018	61470.4	61470.4

1

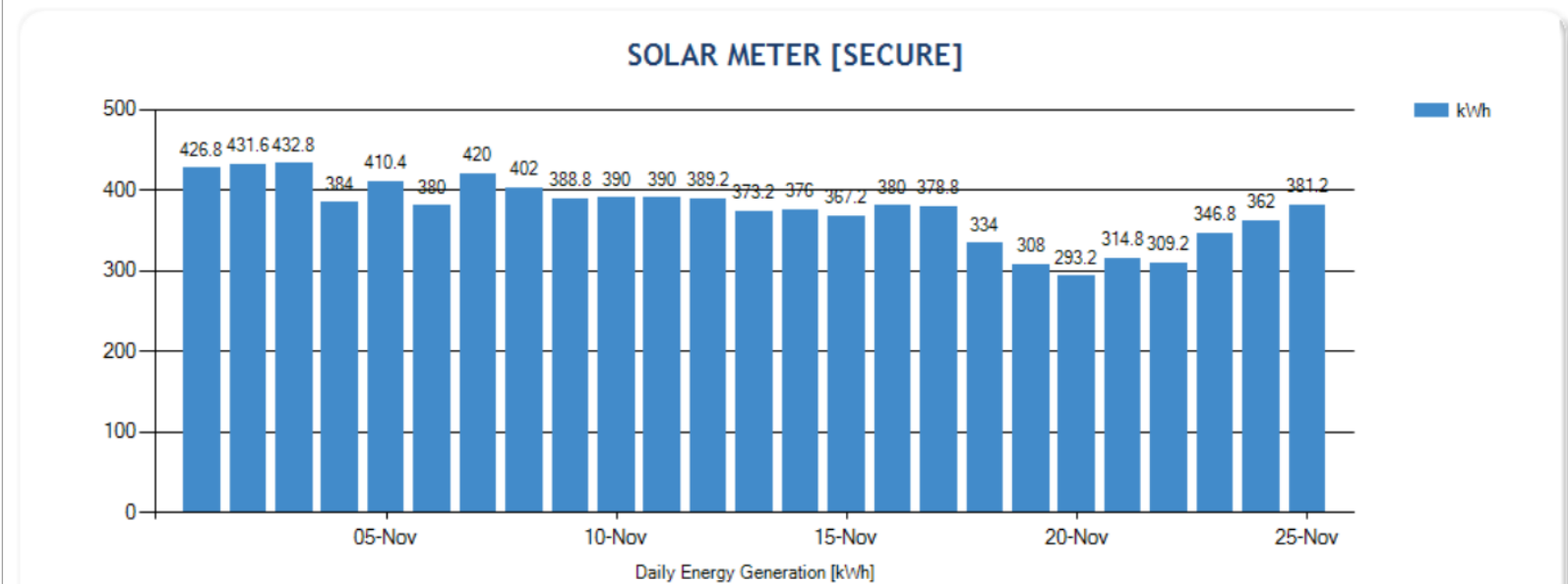
2

3

# Daily Energy

Daily Energy

SOLAR METER [SECURE]



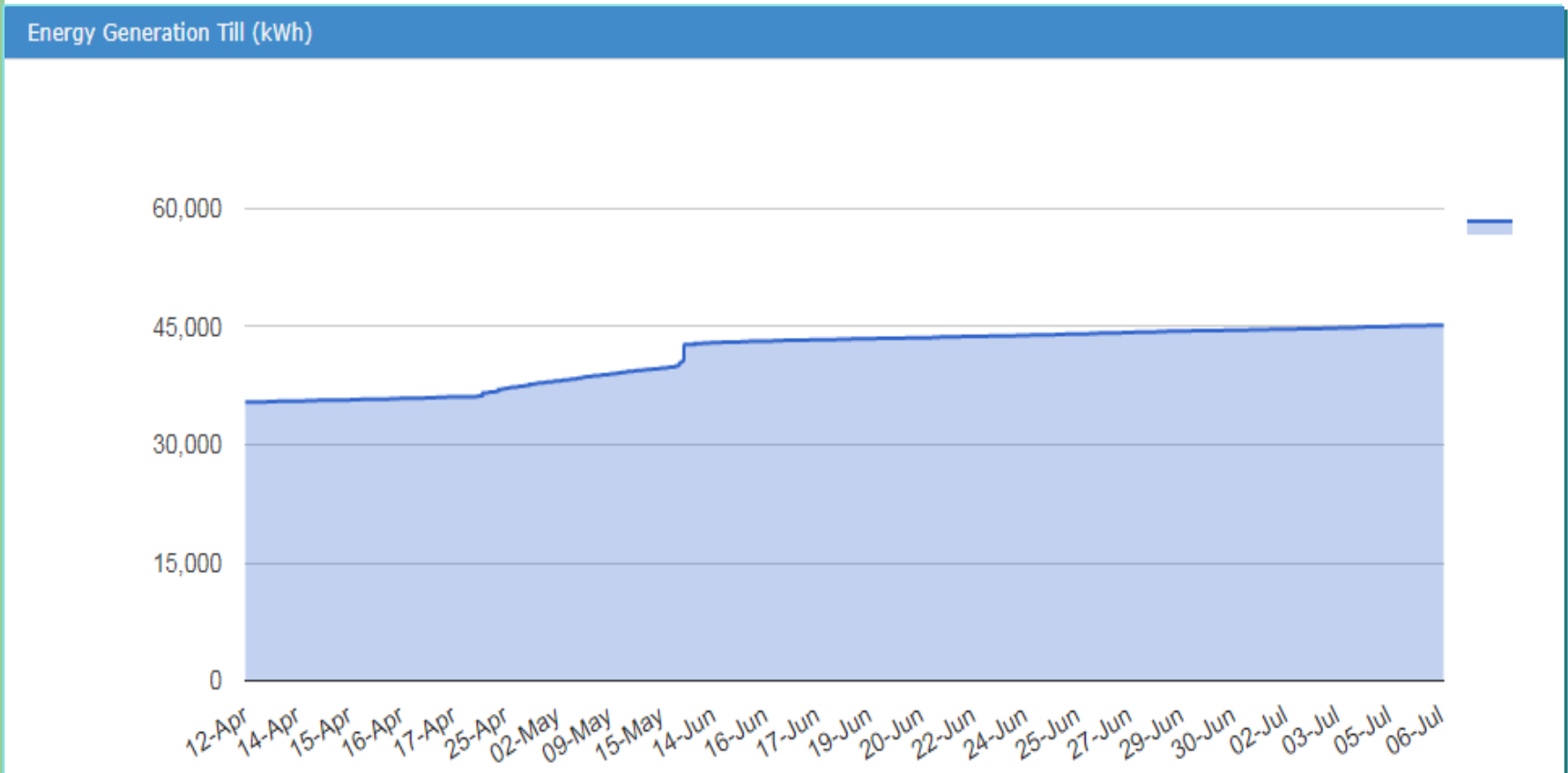
# 15 Minute Log Data

SOLAR METER [SECURE]

Export

S. No	id	METERNO	DateTime	VOLT_R	VOLT_Y	VOLT_B	CURR_R	CURR_Y	CURR_B	ACT_KW	REACT_KVAR	APPARENT_KVA	FREQ	PF_R	PF_Y	PF_B	PF_TOT	IMP_KWH	EXP_KWH
1	001SS001	XD416531	12/4/2018 12:30:00 AM	246.79284	245.97126	245.4599	0.29096	0.31968	0.32024	0.03056	0.22676	0.22884	49.9640	0.1950	0.1150	0.0940	0.1330	69678.4	0
2	001SS001	XD416531	12/4/2018 12:45:00 AM	246.8926	245.82416	245.93138	0.29688	0.3078	0.32612	0.02824	0.22732	0.22908	49.9570	0.1520	0.0850	0.1320	0.1230	69678.4	0
3	001SS001	XD416531	12/4/2018 1:00:00 AM	247.41616	246.61986	246.33096	0.28272	0.30608	0.35028	0.03076	0.22956	0.23164	50.0120	0.1280	0.1690	0.1040	0.1320	69678.4	0
4	001SS001	XD416531	12/4/2018 1:15:00 AM	244.0557	243.38912	243.13584	0.27956	0.3078	0.3334	0.03072	0.22204	0.22416	49.9800	0.1590	0.1270	0.1260	0.1370	69678.4	0
5	001SS001	XD416531	12/4/2018 1:30:00 AM	244.7386	243.96298	243.66304	0.28564	0.31228	0.3188	0.03072	0.2214	0.22352	49.9990	0.2030	0.1160	0.0980	0.1370	69678.4	0
6	001SS001	XD416531	12/4/2018 1:45:00 AM	245.19936	244.33702	244.0188	0.28452	0.32264	0.32044	0.03144	0.22428	0.22648	50.0070	0.2120	0.0910	0.1190	0.1380	69678.8	0
7	001SS001	XD416531	12/4/2018 2:00:00 AM	245.11192	244.50016	244.07928	0.28764	0.296	0.33884	0.03236	0.2232	0.22556	50.0160	0.1340	0.1270	0.1640	0.1430	69678.8	0
8	001SS001	XD416531	12/4/2018 2:15:00 AM	245.54446	244.61544	244.4616	0.28492	0.30864	0.3246	0.0278	0.22296	0.22468	50.0150	0.1700	0.0910	0.1120	0.1230	69678.8	0
9	001SS001	XD416531	12/4/2018 2:30:00 AM	245.6819	244.9136	244.79198	0.29376	0.30376	0.32656	0.03088	0.2242	0.22632	50.0220	0.1810	0.0810	0.1470	0.1360	69678.8	0
10	001SS001	XD416531	12/4/2018 2:45:00 AM	245.7808	245.02448	244.64934	0.2818	0.31388	0.3374	0.03152	0.22644	0.2286	49.9900	0.1680	0.1510	0.0990	0.1370	69678.8	0
11	001SS001	XD416531	12/4/2018 3:00:00 AM	245.9909	245.22392	245.1633	0.2874	0.31748	0.324	0.02988	0.2258	0.22776	50.0410	0.1940	0.1080	0.0950	0.1310	69678.8	0
12	001SS001	XD416531	12/4/2018 3:15:00 AM	246.60374	245.52922	245.3914	0.29236	0.31872	0.32448	0.02904	0.22788	0.22976	49.9970	0.1900	0.1090	0.0840	0.1260	69678.8	0
13	001SS001	XD416531	12/4/2018 3:30:00 AM	247.17832	246.44692	246.05634	0.28296	0.32376	0.33112	0.02916	0.22904	0.23088	50.0020	0.1940	0.1280	0.0650	0.1260	69678.8	0
14	001SS001	XD416531	12/4/2018 3:45:00 AM	247.13664	246.22836	246.17214	0.29328	0.3194	0.32332	0.03004	0.22848	0.23044	49.9690	0.1990	0.1060	0.0900	0.1300	69678.8	0
15	001SS001	XD416531	12/4/2018 4:00:00 AM	247.39614	246.5676	246.40464	0.2878	0.31256	0.33476	0.03308	0.22832	0.23072	50.0290	0.1720	0.1370	0.1230	0.1430	69678.8	0
16	001SS001	XD416531	12/4/2018 4:15:00 AM	247.19952	246.12344	246.2214	0.2904	0.32536	0.31964	0.02724	0.22856	0.23016	49.9860	0.2030	0.0750	0.0840	0.1180	69678.8	0
17	001SS001	XD416531	12/4/2018 4:30:00 AM	247.3273	246.71782	246.3610	0.2924	0.32376	0.32428	0.03008	0.22992	0.23188	50.0140	0.1850	0.1180	0.0900	0.1290	69678.8	0
18	001SS001	XD416531	12/4/2018 4:45:00 AM	246.2825	246.07752	245.47978	0.28776	0.32176	0.32572	0.03052	0.22784	0.22988	49.9670	0.1800	0.1080	0.1140	0.1320	69678.8	0
19	001SS001	XD416531	12/4/2018 5:00:00 AM	245.83302	245.29452	245.09454	0.28364	0.31912	0.33524	0.03244	0.22776	0.23004	49.9330	0.1850	0.1390	0.1040	0.1410	69678.8	0
20	001SS001	XD416531	12/4/2018 5:15:00 AM	244.8773	243.9237	243.81972	0.28672	0.32212	0.32416	0.0274	0.22604	0.22772	49.9410	0.1610	0.1130	0.0910	0.1200	69678.8	0
21	001SS001	XD416531	12/4/2018 5:30:00 AM	244.01712	242.78512	242.65158	0.28816	0.32068	0.31244	0.02768	0.22204	0.22376	49.9420	0.1880	0.0830	0.1040	0.1230	69678.8	0
22	001SS001	XD416531	12/4/2018 5:45:00 AM	242.37374	241.6559	241.33834	0.2888	0.31456	0.3174	0.03004	0.2204	0.22244	49.9120	0.1870	0.0940	0.1270	0.1350	69678.8	0
23	001SS001	XD416531	12/4/2018 6:00:00 AM	241.57082	239.92518	240.21428	0.28552	0.30784	0.3304	0.0318	0.21988	0.22216	49.9350	0.1610	0.1300	0.1390	0.1430	69678.8	0
24	001SS001	XD416531	12/4/2018 6:15:00 AM	239.59004	238.87092	238.65482	0.28864	0.31004	0.31056	0.02924	0.21508	0.21708	49.9350	0.2010	0.0860	0.1200	0.1340	69678.8	0
25	001SS001	XD416531	12/4/2018 6:30:00 AM	240.43546	239.64272	239.84754	0.28096	0.29788	0.3218	0.0286	0.21416	0.21608	50.0140	0.1630	0.1090	0.1260	0.1320	69678.8	0
26	001SS001	XD416531	12/4/2018 6:45:00 AM	241.04486	239.57104	239.99054	0.28024	0.31248	0.34112	0.02672	0.22248	0.22408	49.8160	0.1750	0.0710	0.1160	0.1190	69678.8	0

# Total Energy Generation Curve



Confidential

# Power Outage Reporting

From Date:

To Date:

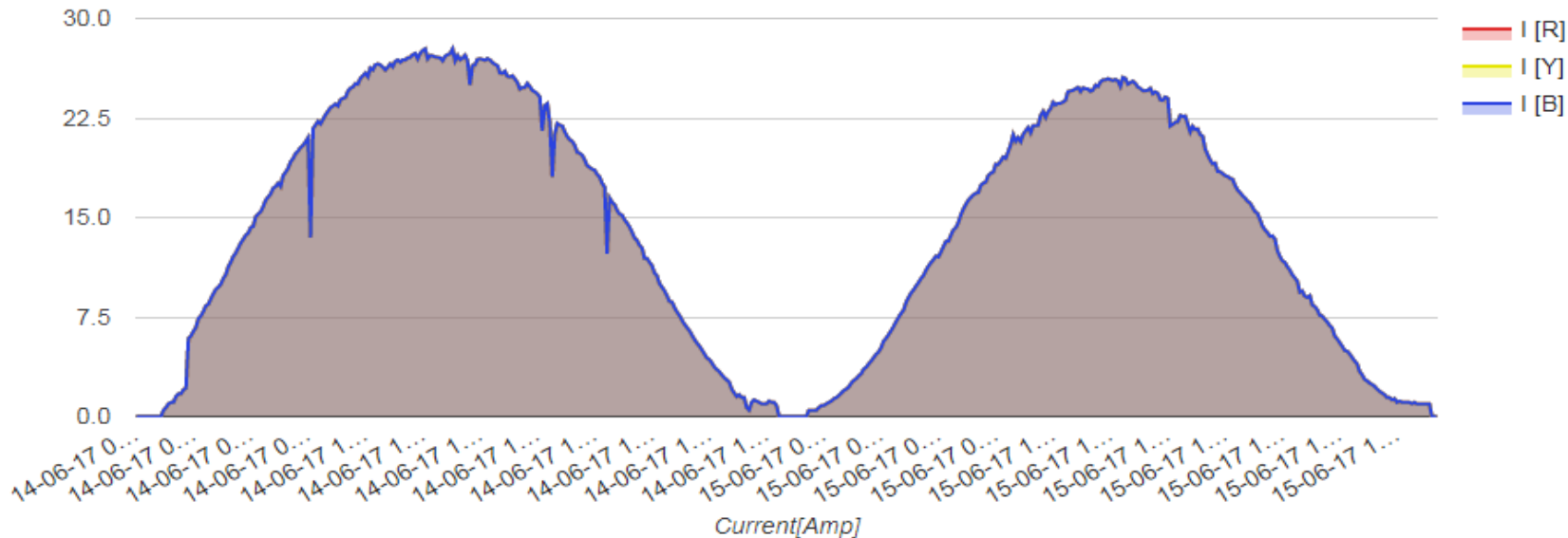
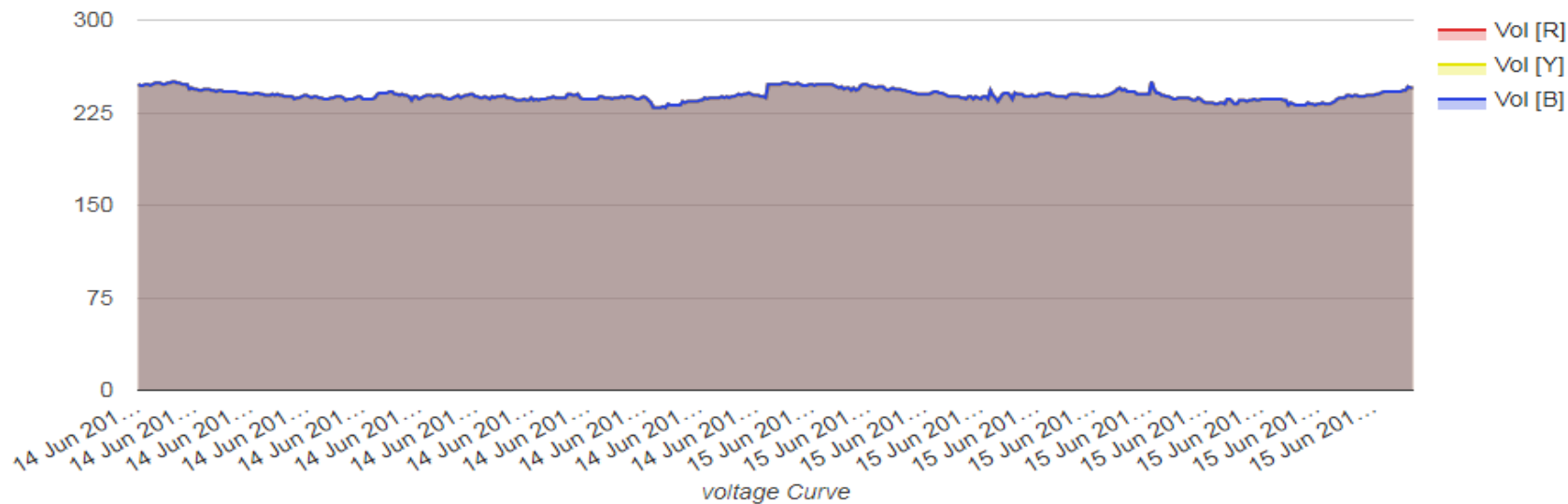
[Show](#)[Export](#)

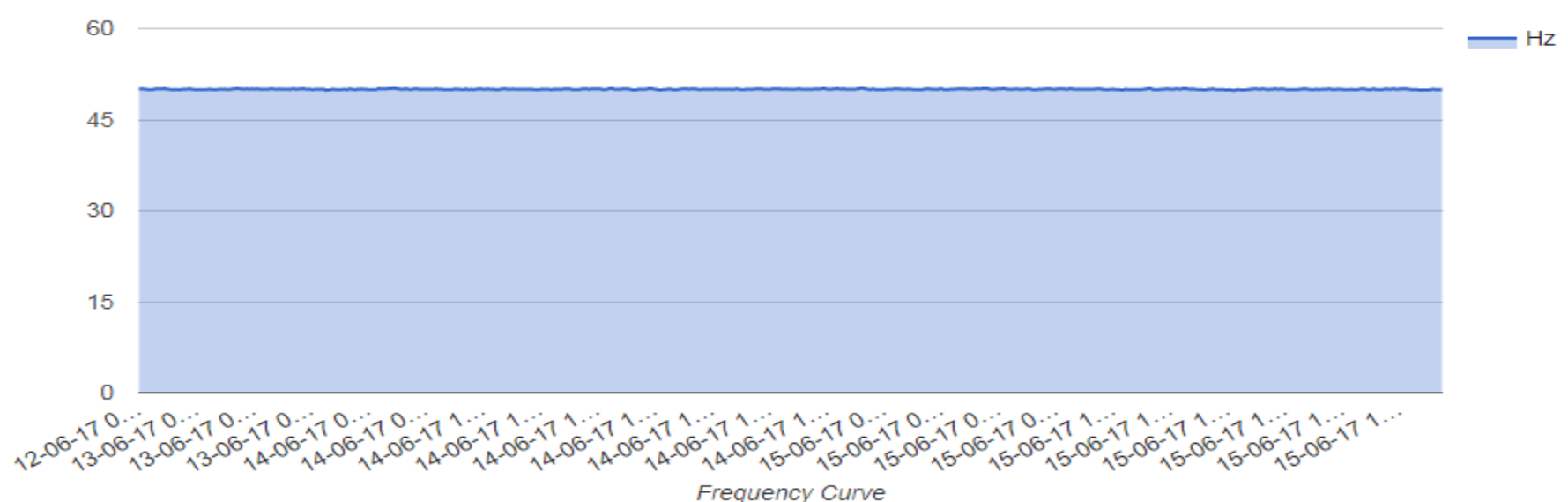
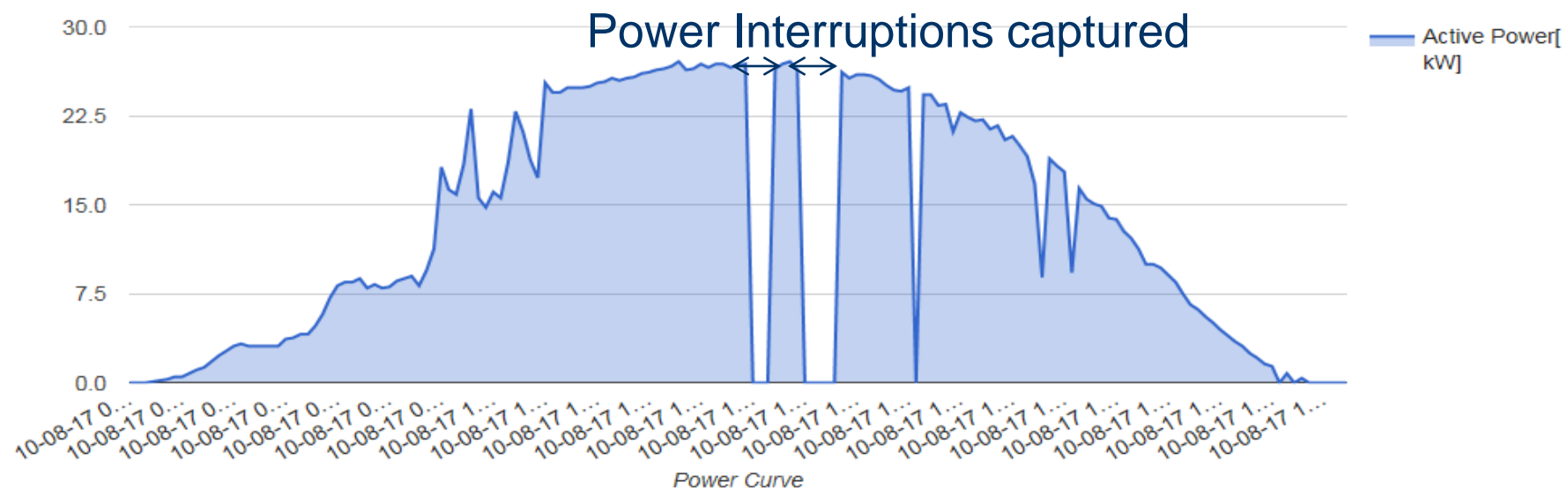
Date & Time	POWER EVENTS STATUS
4/2/2018 7:49:57 PM	POWER FAILURE
4/2/2018 8:06:26 PM	POWER RESTORE
4/3/2018 12:08:08 PM	POWER FAILURE
4/3/2018 12:18:08 PM	POWER RESTORE
4/3/2018 12:51:18 PM	POWER FAILURE
4/3/2018 12:51:48 PM	POWER RESTORE
4/3/2018 12:52:53 PM	POWER FAILURE
4/3/2018 12:53:23 PM	POWER RESTORE
4/3/2018 4:42:45 PM	POWER FAILURE
4/3/2018 4:43:15 PM	POWER RESTORE



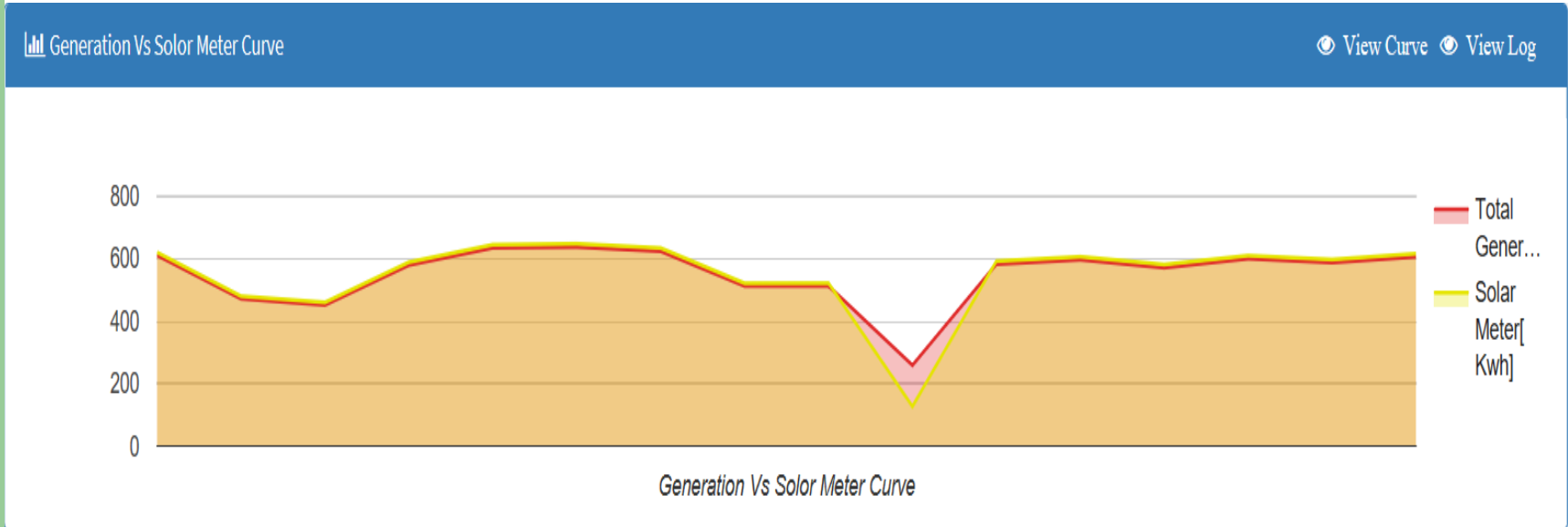
## Power Graphs

- Voltage Curve
- Current curve
- Power Curve
- Frequency Curve





# Inverter vs Solar Meter generation



## Add on Features

- E Mail reporting
- SMS reporting
- Integration of Inverter, Sensor, solar meter, net meter, weather sensor on same portal
- Difference between inverter generation and solar meter generation
- Loss and gap analysis between inverter and solar meter generation
- Net meter export and net meter import energy
- Energy and loss analytics

## Contact Details

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