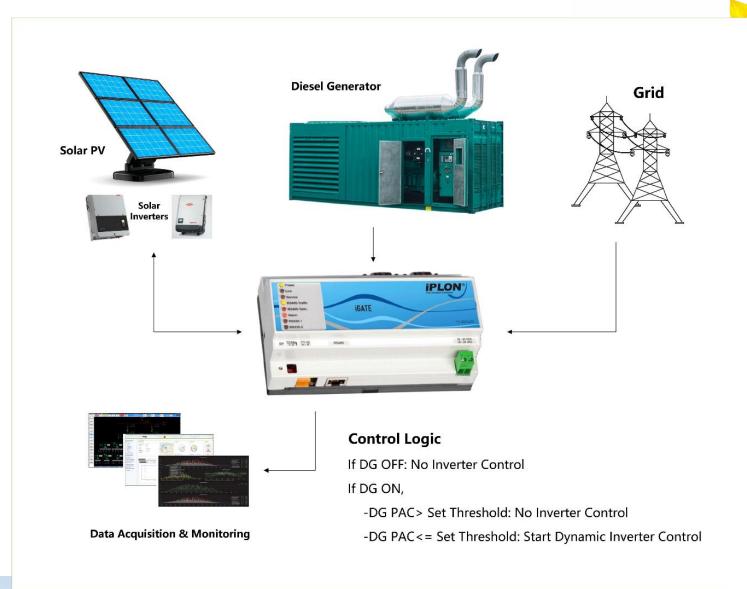
Case Study & PV-DG Live Demo



#26/80,Luz Avenue, 5th Street, Mylapore, Chennai, Tamil Nadu, India 600 004



PV-DG Fuel Saver Controller



PV-DG Controller does

- Inverter output control
- Protection against reverse power current
- Maintains the DG in the safe operating efficiency
- Fully automated system operation

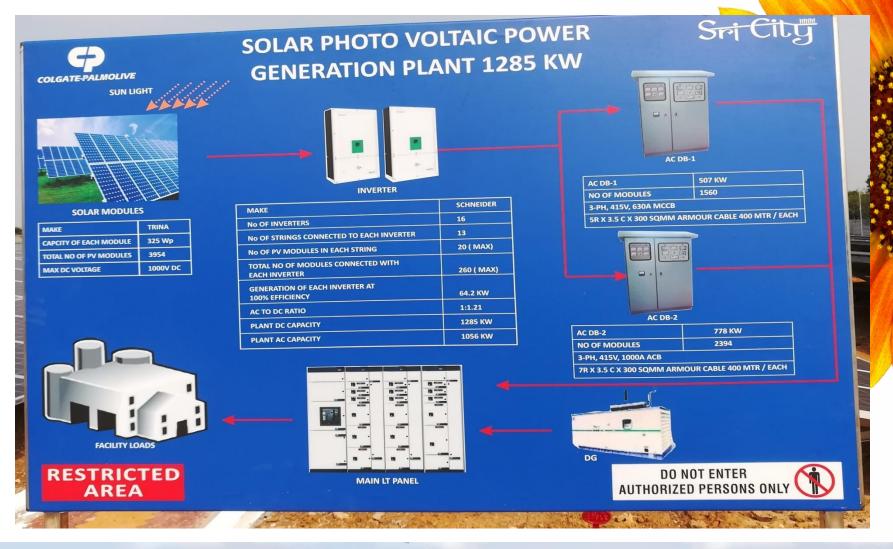


PV-DG Controller Installed Sites

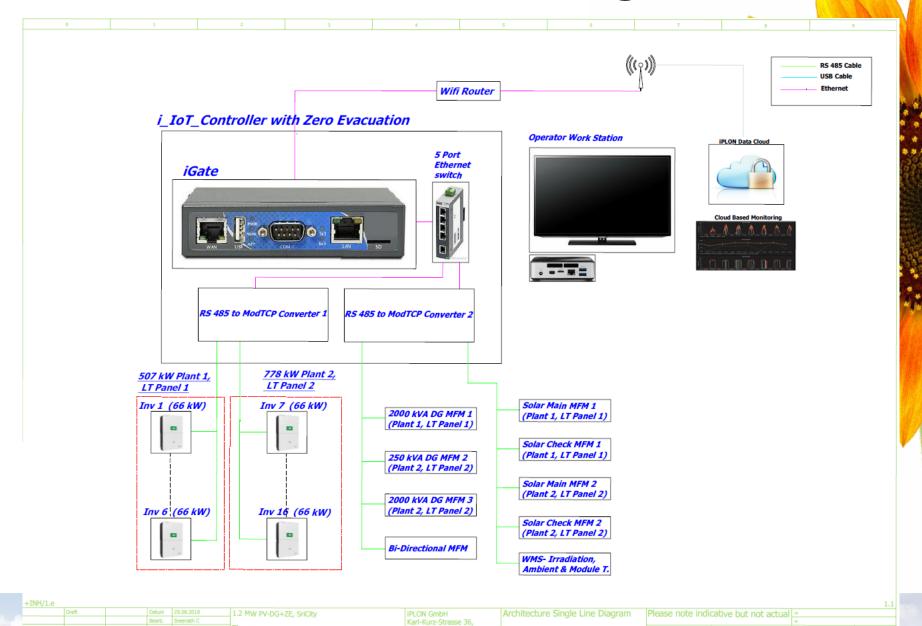
Colgate plant Sricity, Plant Layout.



Colgate Plant Description.



Plant Architectural Diagram



Inverter's @ site



2 * 2000 kVA DG



500 kVA DG

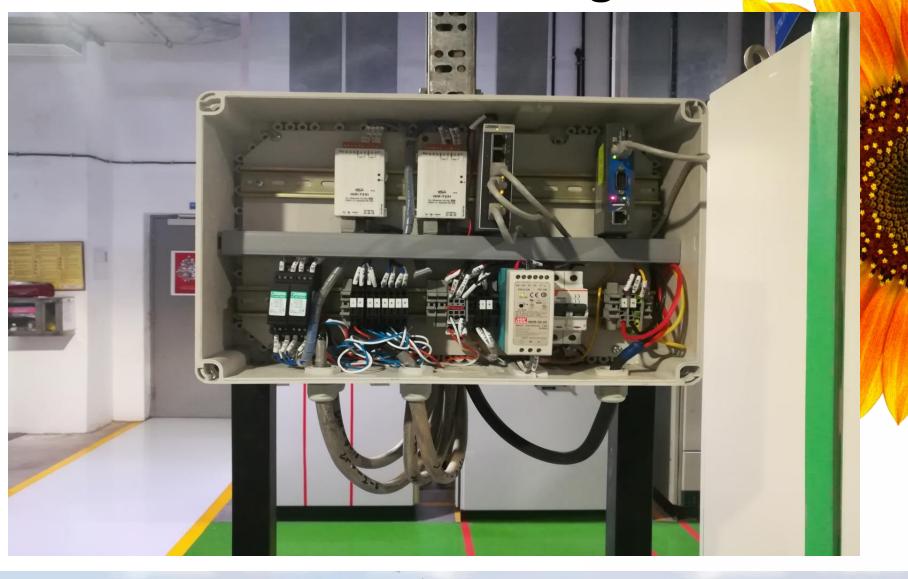


DG Multifunction meter

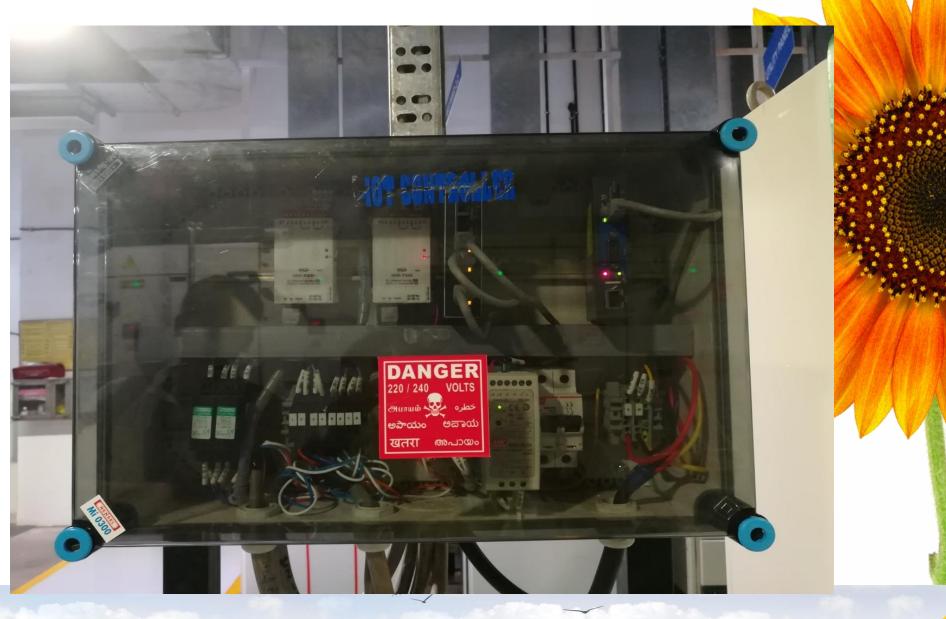




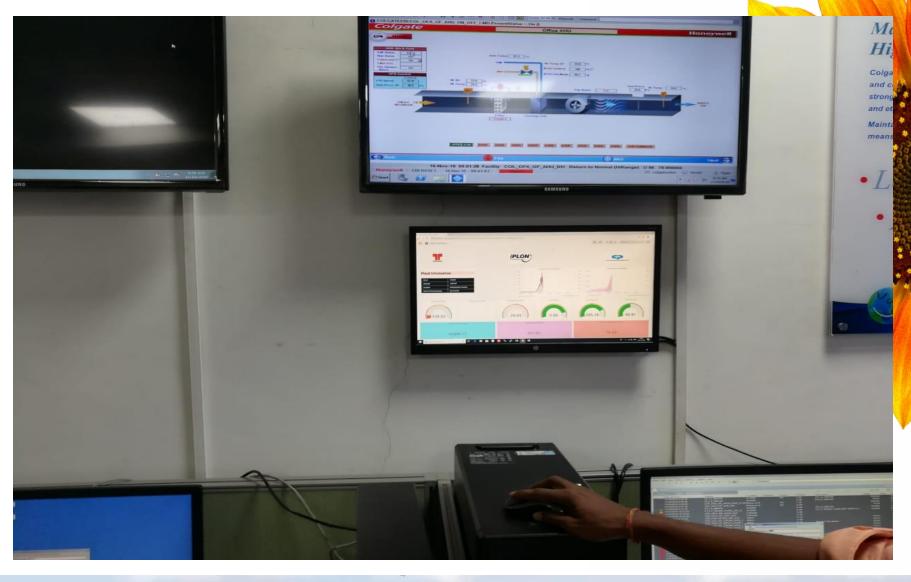
PV-DG controller installing



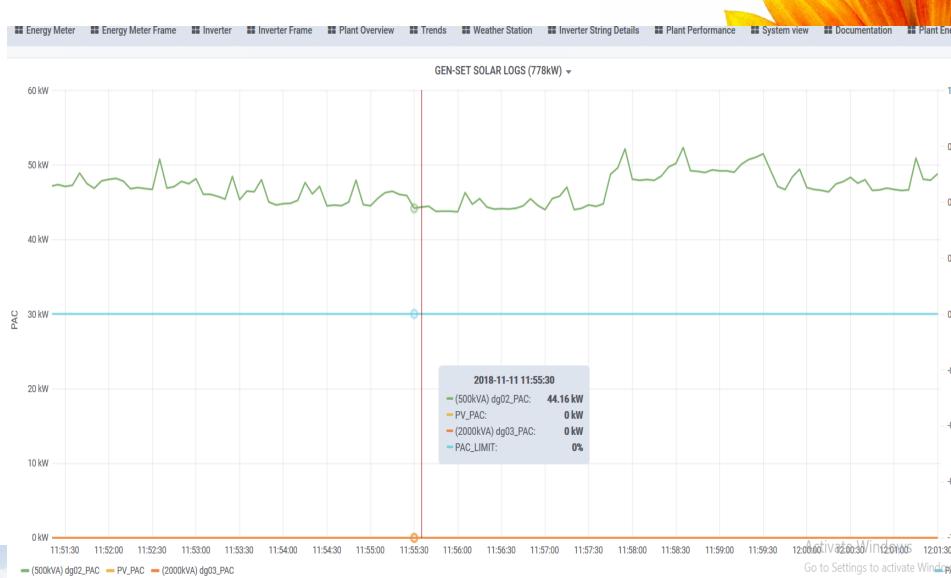
PV-DG Controller @ site



Monitoring @ Colgate



500kVA- DG Active power < DG Critical load (10%), Inverters at 0 kV



500kVA - Dynamic Inverter control maintaining DG @set point



500kVA & 2000kVA - Dynamic Inverter control maintaining DG's @set point



Colgate Live Demo

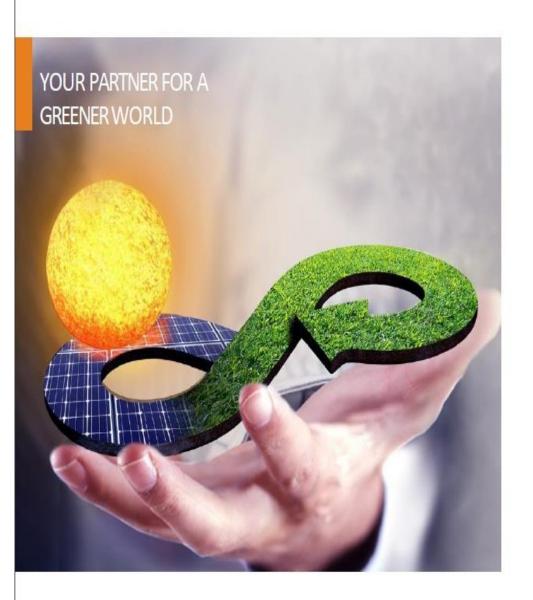


Amplus – iPLON Partenership

Localized (de-central) supply-demand management – Need for smart PV design













AN OVERVIEW

Amplus Solar is India's leading owner and operator of distributed/rooftop solar assets for Commercial and Industrial Customers.

600+MW

Operational and Under-development Capacity 275+

Projects

150+

C&I Customers

250+

Dedicated Professionals 150+

Sales Network Across Asia



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PIONEERS



First developer in India to be awarded rooftop debt financing by World Bank & ADB



175 MWp: India's Largest Open-Access Solar Park at Gadag, Karnataka; supplying power to 30+ customers



India's first tracker based Airport Solar Project at HAL Airport, Bengaluru



One-of-a-kind Battery Integrated Solar Plant with Energy Management System at a Toll Plaza



India's largest Rooftop Plant (OPEX with net metering) of 6.2 MW for Yamaha, Noida in 2016

GROWTH STORY



2000% growth in capacity in 3 years



Customer base tripled from 2017 to 2019



Three-fold growth in Sales and Service network in two years





AMPLUS OPEN-ACCESS (OFF-SITE) SOLAR PLANTS





Market Leader in Open Access Solar Segment in India



220+ MW Operational capacity; Additional 200+ MW in advance stages of development









First mover in India to establish battery energy solar solutions for C&I customers under OPEX model



3 operational pilot projects of 0.2 MW





WELL-DIVERSIFIED TIER 1 CUSTOMER BASE



High Quality, Long-term Portfolio With Multinational Clients And Strong Government Institutions

150+ CUSTOMERS ACROSS VERTICALS

- Automotive and Locomotives
- Defence
- FMCG and Consumer Durables
- ٠ Retail
- Manufacturing
- Government and Private Institutions
- Pharma, Hospitals and Healthcare
- Real Estate and Housing Societies

- Others















































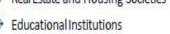












IT and Technology





























iPLON PV DG Versions

- Single DG PV
- Two DG PV without synchronization
- Multiple DG's PV with synchronization
- Mulitple DG's without synchronization
- Multiple DG's with ZE





PRODUCT FEATURES- Commercial

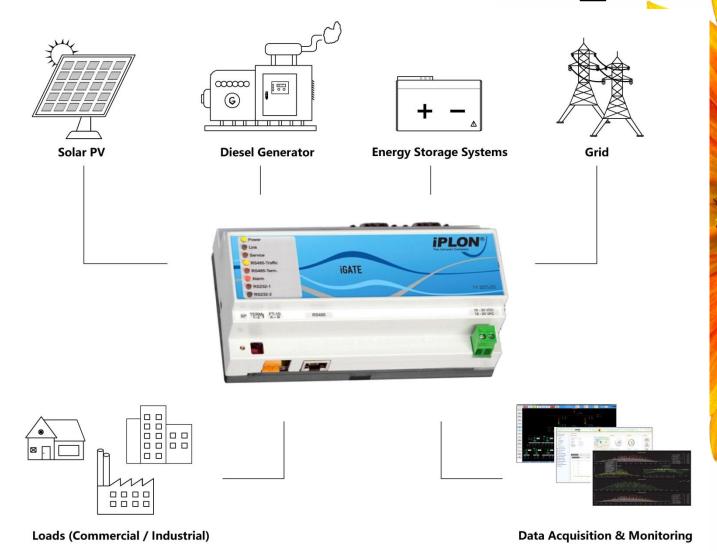
- Extended to Multiple DG sets
- Compatible with all leading inverter OEM
- iPLON Cloud services Remote monitoring of plant
- Scalable system (kW to MW scale installations)
- Fuel savings by maximizing solar output without compromising DG efficiency
- Site specific customization
- Best fit commercial & future needs

Product Line_iPLON

Features	Economy	Standard	Premium
PV DG license	✓	✓	✓
PV DG EM monitoring	✓	✓	√
Remote support	✓	✓	√
git PV Monitoring	×	✓	√
WMS monitoring	×	✓	1
String/SMU monitoring	×	*	√
IO monitoring	×	*	√
Onsite support	×	*	√
Customization	×	*	✓
Multi INV protocol support	×	*	✓
Plant Capacity	< 150 kW	>150kW, < 400kW	> 400kW
RS485 ports	2	4	> 4
Number of inverters	3	6	> 6
Number of EM	2	2	> 2
Number of DG	1	2	> 2
Data points/device	10	20	all
Box size	300 X 300	300 X 600	Customized



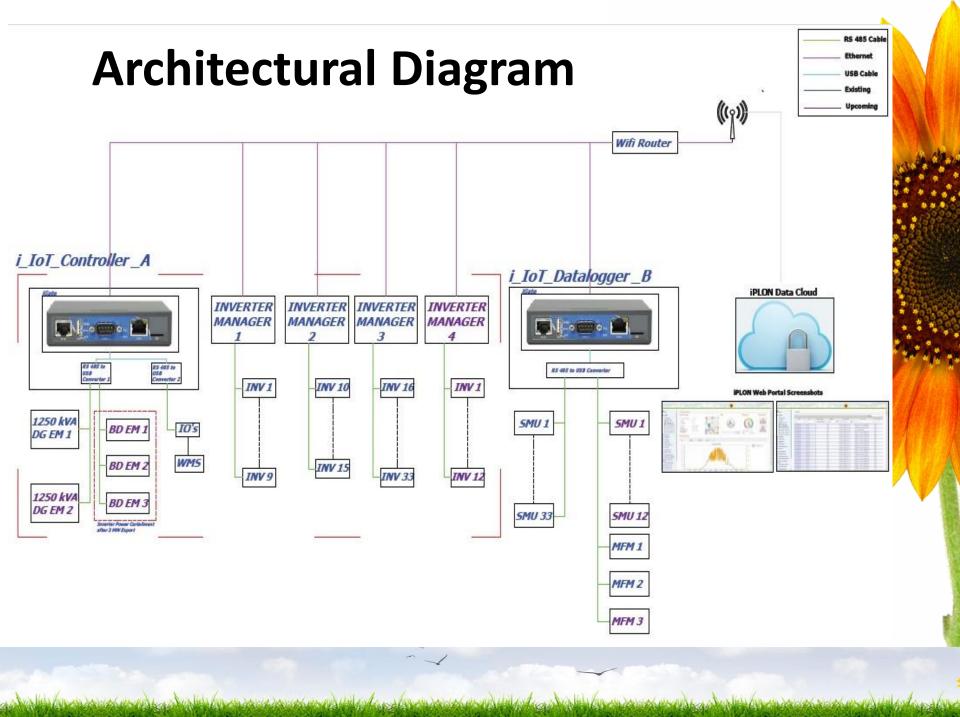
iPLON Micro Grid Solutions_iMG\$





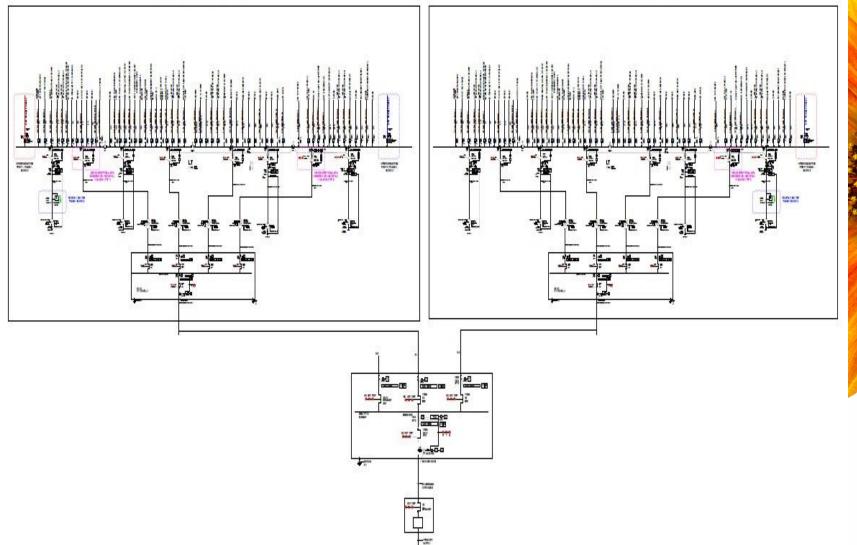
IEML – Expo Centre





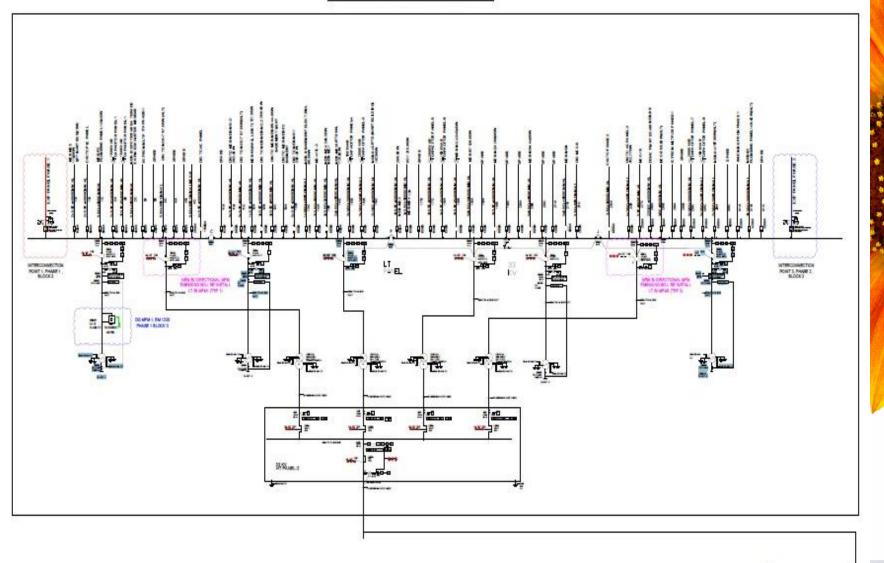
SUBSTATION 1,CIIENT SIDE LT ROOM HALL 1,2,3,4

SUBSTATION 2/ CIIENT SIDE LT ROOM HALL 5,6,7,8

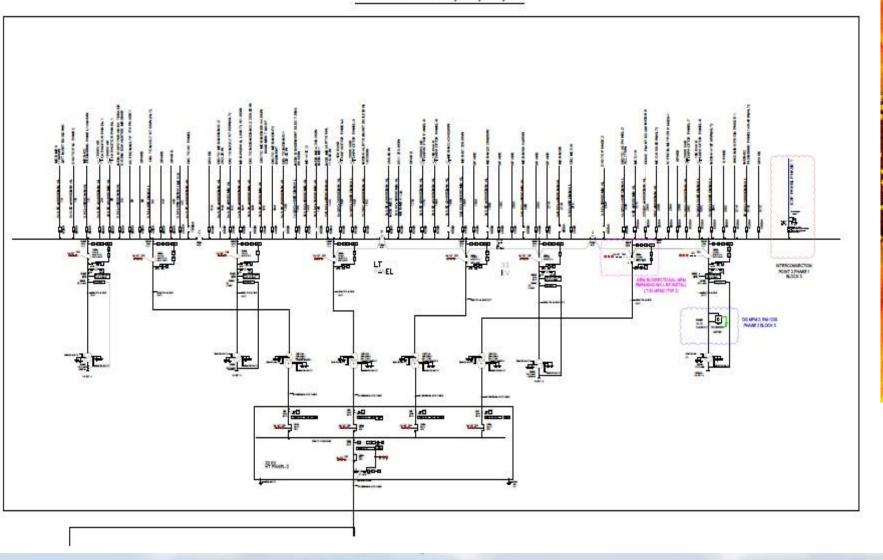




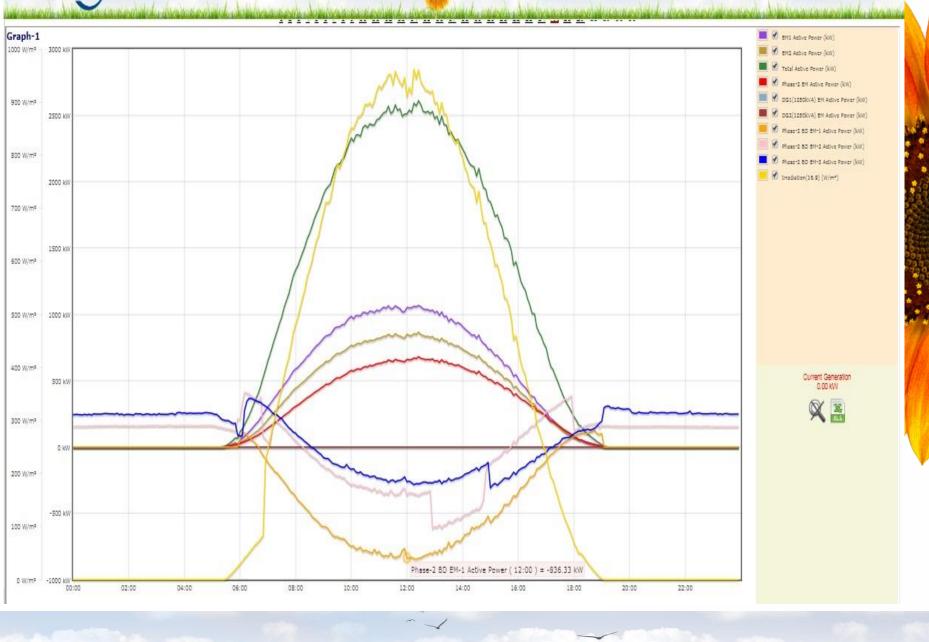
SUBSTATION 1,CIIENT SIDE LT ROOM HALL 1,2,3,4



SUBSTATION 2/ CIIENT SIDE LT ROOM HALL 5,6,7,8







13 + Walmart India







PV-DG Hybrid Projects

(Specified from list above)

Customer	Location	Capacity (MW)
Amplus	Meerut 1; 2 DG	
	Raipur; 2 DG	
	Agra 1; 2 DG	
	Agra 2; 2 DG	
	Kota; 2 DG	
	Guntur; 2 DG	
	Amristar; 2 DG	
	Bhantinda; 2 DG	
	Bhopal; 2 DG	
	Indore; 2 DG	
	Jalandar; 2 DG	
	Ludhiana; 2 DG	
	Zirakpur; 2 DG	
	Gurgaon; 1 DG	
	Haryana; 1 DG	
	Meerut 2; 1 DG	
	Roorkee; 5 DG	
	Noida; 2 DG + ZE	
	Cumulative	16.2



THANK YOU...



