GRID CONNECTED OFF-GRID SOLAR POWER PLANT VILLAGE ELECTRIFICATION

Off-Grid Solar Plants

Off-grid systems are stand alone systems which are independent of the grid and are used for captive consumption. These generally require batteries to store energy, and power "dedicated" electrical loads. These systems are mostly used for areas where there is no grid availability or frequent electricity cuts.

On Grid Solar Plants

Gride connected systems (kW to MW sized) are power plants which are directly connected and synchronized to the utility grid. These systems do not have batteries. Any surplus power generated is fed back into the grid. Central and State level support and long term policy framework is creting a market for solar electricity.

RTU System

The system is supplied with Remote Terminal Unit (RTU) which facilitates for remote monitoring and control. The objective of RTU is to acquire real-time data of the Solar, Batery, D.G. & SMPS and sent it to centralized server for real time data monitoring and Control.

REFERENCE CHART

	1 KWp		2 KWp		3 KWp		4 KWp		5 KWp	
	Nos.	No. of Hours	Nos.	No. of Hours	Nos.	No. of Hours	Nos.	No. of Hours	Nos.	No. of Hours
Fan (75 W.)	4	4	6	6	7	10	8	12	8	12
CFL (20 W.)	5	7	7	8	8	12	10	14	10	14
TV (150W.)	1	5	1	6	1	8	1	8	1	8
Fridge (300W.)	.....	.....	1	5	1	7	1	8	1	8
Mntnr (1HP & 2HP)	.....	.....	.....	.....	1	1	1	2	1	3

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