

Shri Suresh Prabhu addressing at the inauguration ceremony

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The Challenges

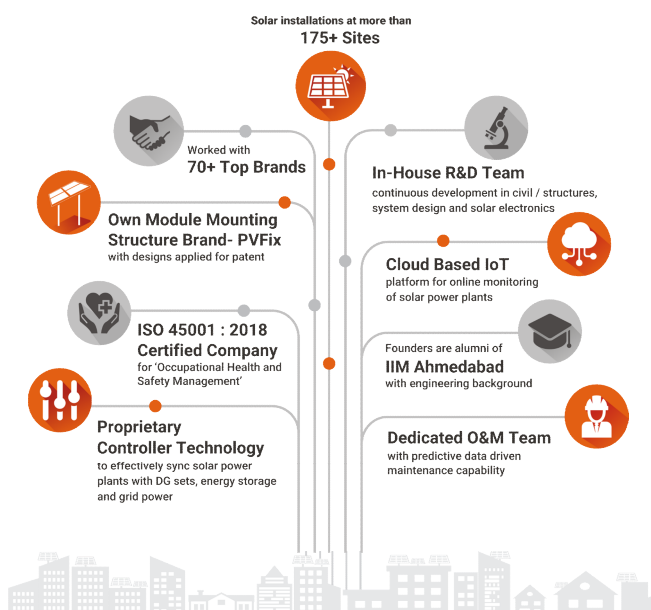


- Discouraged corporate sector
- Security of the asset
 - Unauthorized access
 - Unsafe practices by the visitors
 - Damage to solar project
- Lack of ownership by Railways
- Lack of co-operation - Poor water management
- Safety of the maintenance personals
- Maintenance of the asset




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About Sunshot




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Energy Management and IoT







Global Dashboard




Live Generation




Live Inverter Output



Analytics




Historic Data




Live Weather Sensors Chart







- System communicates with each inverter, energy meter, diesel generator and weather monitoring devices
- The system synchronizes solar power plant with grid power, diesel generator and energy storage system and generates automatic reports on real time basis
- Real-time alerts and notifications ensures that operational issues are resolved quickly and effectively




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Growth in Intellectual Property with continuous R&D



	Solar Power Controller*	<ul style="list-style-type: none"> Online real time monitoring and control of solar plants Synchronizes solar power with diesel generators Back-feed protection; solar power reduction as per load availability Compatible with all solar inverters available in market
	Energy Management System	<ul style="list-style-type: none"> Real time monitoring of the different electrical parameters Cost reduction through detection of energy losses at machine level
	Battery Management System	<ul style="list-style-type: none"> Monitoring various battery parameters like voltage, current, temperature Estimating the SOC and Battery health Operating the battery within safe operating range
	Short rail structure for GI roof*	<ul style="list-style-type: none"> Aerodynamic design to sustain windspeed of 180 kmph Allows ventilation of solar panels to maximize generation Flexibility in dimension of solar panels without additional drilling Design assessment independent certification under progress
	Battery Energy Storage	<ul style="list-style-type: none"> Evaluating different battery technologies like VRLA, Li-Ion Developed different battery vendors from India, China and Korea Pilot project with Li-Ion batteries and also working on projects with Lead acid batteries
	Advanced solar modules	<ul style="list-style-type: none"> Deploying latest high output and Bifacial solar modules Use of solar trackers to maximize generation from solar power plant



***Patent Applied**

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