

DATALOGGER REMOTE MONITORING

Reliable Data. Real-time Insights.



- Real-time Monitoring
- Smart Alerts & Notifications
- Secure & Reliable Data
- Access Anytime, anywhere



A product of
Free Spirits Green Labs Pvt. Ltd.
A Renewable Energy Company



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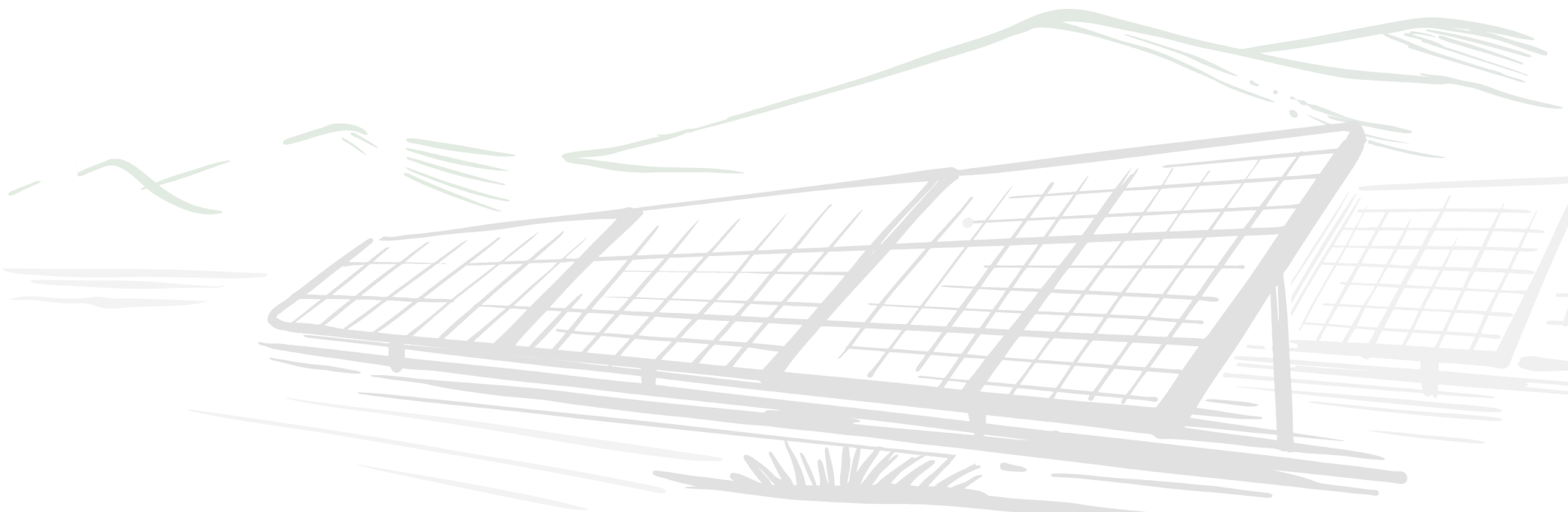
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01 What are Data Loggers?

TrackSo data loggers are IoT-based data gateways that collect, store, and transfer data over the cloud to your monitoring dashboard. Be it solar inverters, energy meters, LT/HT meters, weather sensors, SMBs, solar VFDs, TrackSo data loggers are compatible with 100+ OEM brands.

It comes with different kinds of internet connectivity options i.e. Wifi, LAN, 4G, combination of 4G & LAN based on the availability at the site. Based on the number of inverters/meters/wms to be monitored, we have multiple models at market competitive rates, as shown in the next slide.



02 TrackSo's Range of Loggers



4G Based



WiFi Based



LAN Based

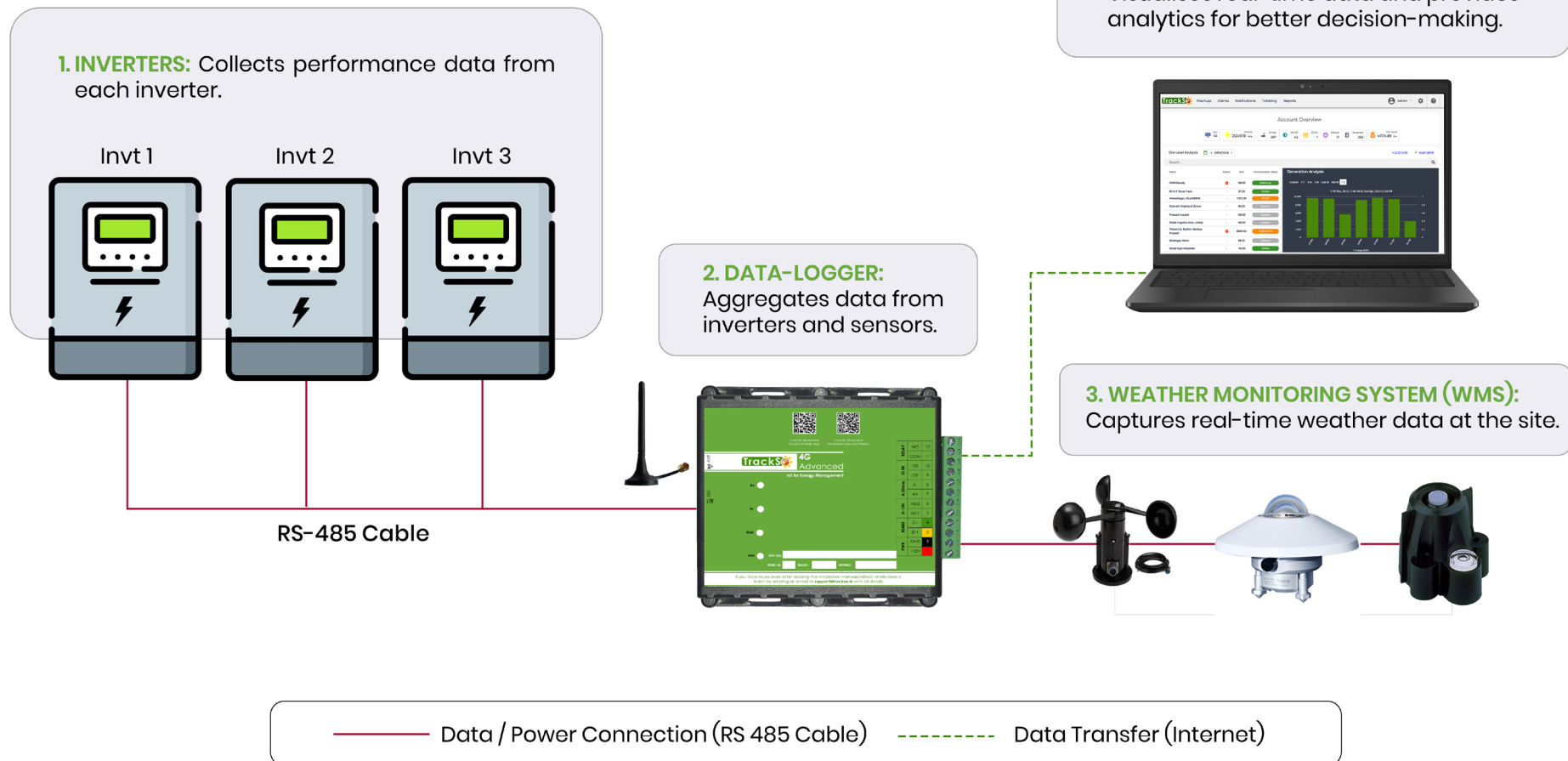


4G & LAN Combo

[Checkout the detailed datasheets here](#)

03 How They Work?

TrackSo monitors your solar plant in real-time, collects data from inverters and weather sensors, and provides actionable insights through a **CENTRALISED PORTAL**.



Working Mechanism

Data Collection:

The data logger gathers information from inverters, energy meters, weather monitoring systems (WMS), and other MODBUS-enabled devices using the RS485 communication protocol.

For WMS data, it supports both MODBUS and Analog outputs.

Data Sending and Storage:

The logger then transmits the data to the TrackSo platform via the Internet, ensuring real-time visibility of your solar plants.

Collected data is temporarily/permanently stored locally depending on the data logger model.

Flexibility:

Advanced models include Digital Input/Output (DI/DO) ports, which can be used for controlling or monitoring additional devices like relays or alarms.

04 Features

- ✓ Cost-effective & low maintenance.
- ✓ Plug “n” Play with 100+ OEM brands of inverters, energy meters, VFDs etc.
- ✓ 100% remotely configurable.
- ✓ Wider connectivity options available.
(2G, 4G, WIFI, LAN)



Retrofit For
All MODBUS



Connects up to
32 slave devices



Remote Configuration
Available Over The Air



Up To 6 Months Of
Local Data Storage



Delivered with
IP-65 Enclosure



SMS Enabled
Slave Control Ability



Integrates with all
Sensors Analog & Digital



Optional
Battery Backup

05 100+ Compatible Brands

 Green and Effective		 powering tomorrow	 your solar engine	 SHIFTING THE LIMITS
		 new energy		 Power and productivity for a better world™
		 One with the Sun		
				
				

06 Use Case

Problem Statement:

A solar plant operator managing a 2.5 MWp plant faced significant challenges in monitoring and managing multiple brand equipment performance. The plant included 8 inverters of different brands, 2 energy meters, and 3 weather sensors.

Struggles:

Accessing and analyzing data from multiple sources in one hardware.

Lack of a unified dashboard because different brands of inverters have their dashboards.

Delayed fault detection, resulting in slower response times to issues.

Solution:

TrackSo implemented a comprehensive solution tailored to the client's needs:

Hardware Integration:

Installed the 4G & LAN combo datalogger to connect with all the 8 inverters, meters, and WMS at the site.

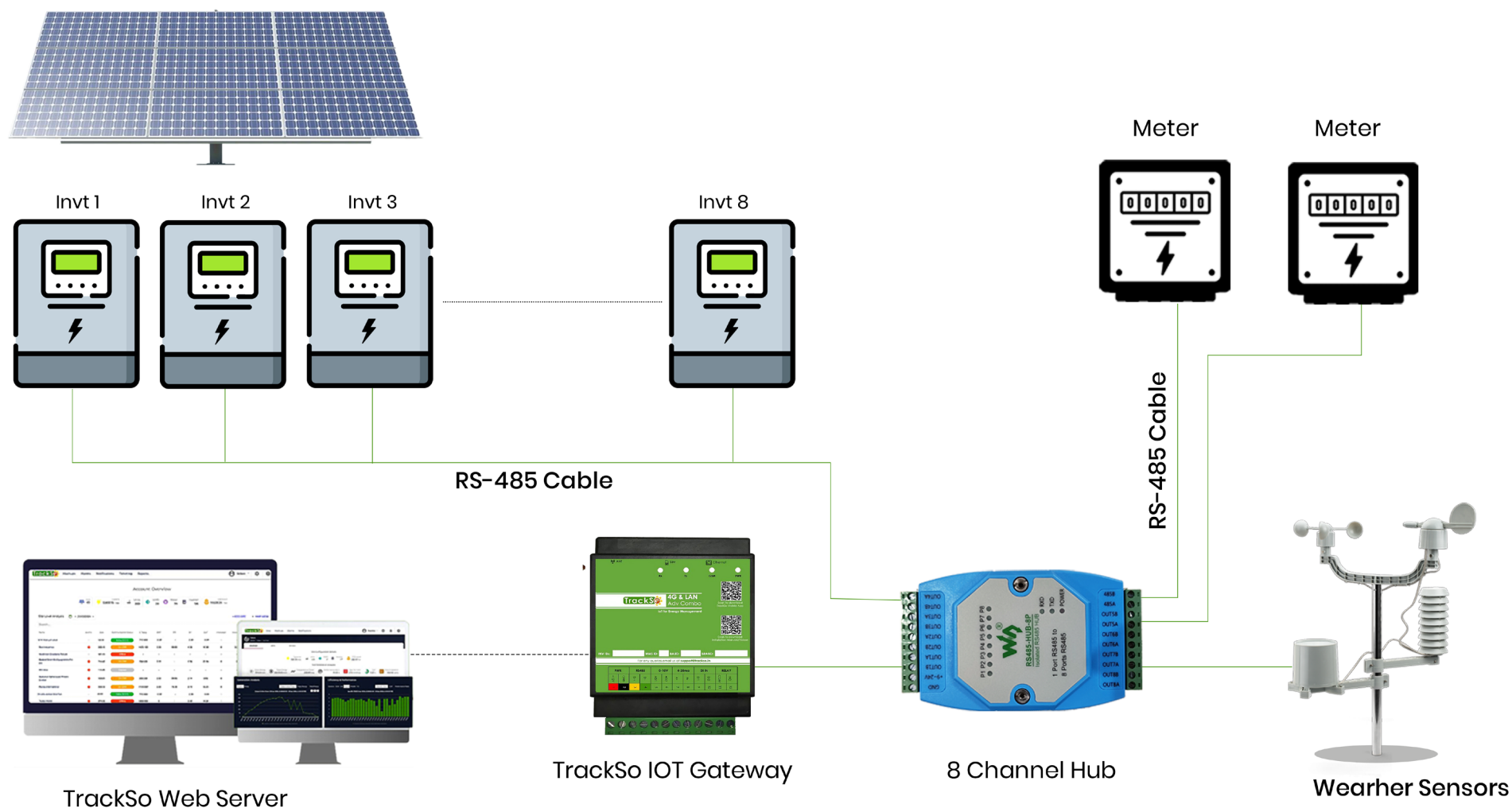
Dashboard Integration:

TrackSo's centralized dashboard helped to unify the data from all the multiple brands of inverters, meters, and WMS in one single portal, which made it easier to analyze everything.

Proactive Alerts:

Instant alarm notifications via SMS/Email.

Use Case SLD





THANK YOU



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[For Datasheets, Click Here](#)