# Techavo Systems We Engineer Your Dreams



# Tech-Tracker

Techavo Systems

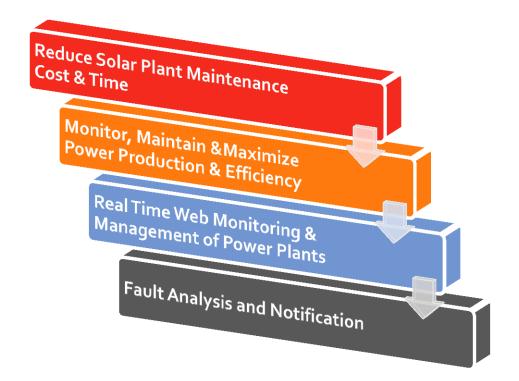
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#### Introduction

Tech-Tracker is a Energy Remote Monitoring System to be used in Regular Energy Remote monitoring and Remote control in Industries, Renewable Energy Generation such as Solar PV, power plants, Wind Mills, Advanced Metering Infrastructure, etc. The system is based on GSM/GPRS or WiFi or RS485 and can work in remote places too. Data Monitoring, Analytics and Management is provided on a Cloud server for ease of access/use and also there is a provison for local storage.

#### **Benefits**

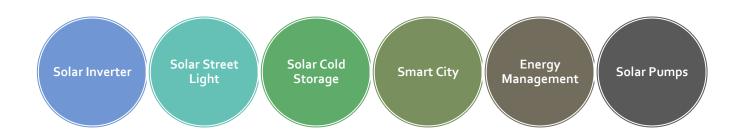




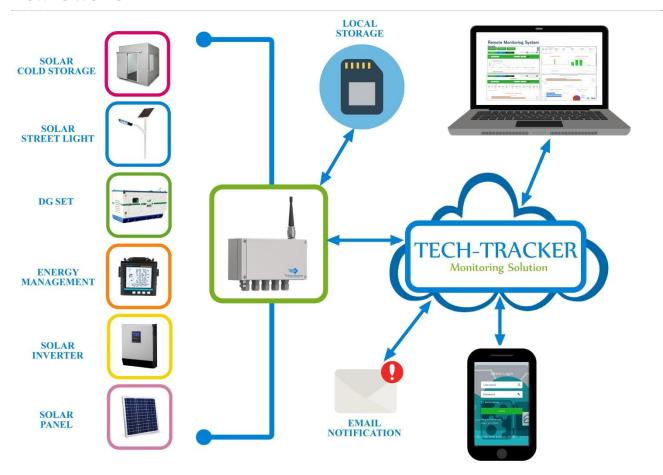
## **Device Specifications**

- Intelligent Modbus, IO, Data Logger, 2G,4G GPRS/WiFi/Lora Connectivity
- 1 x RS-485 port for RTU Modbus, 1x RS232 port for HMI, TTL for Configuration
- Embedded ARM® Cortex™-M<sub>4</sub> 32 Bit RISC Core, 168 MHz inside, RTOS system, reliable performance with in-built watchdog;
- Wide range power supply 9~36VDC with over voltage and phase-reversal protection;
- 3 Phase AC Voltage Input o-300VAC
- 3 Phase Secondary CT Input with o-5AMP
- 3 Relay Outputs configurable to operate on Alarm/ SMS/ Timer
- Parameters monitored are VAC,AMP,3 PHASE KW, 3PHASE KWH, PF, FREQUENCY
- RS485 Modbus Output to read all the parameters
- Smart Inbuilt Data Logger works during Network and Server Disconnection
- Logger Sends offline data once Network and Server Connected
- Upto 6 Authorized numbers list for command and Configuring.
- Configurable TCP/Http/MQTT/Https Mode, GET/POST Methods
- Configurable CSV/JSON/Custom Format for Parameter Packetization
- Remote Configuration through SMS/GPRS/Server IP Commands
- Alerts: Over Voltage, Under Voltage, Over Current, Under Current, max KW
- OTA (Over The Air) Firmware upgrade, Device Configuration update.
- LED & LCD indicators to provide GSM, GPRS, Signal, Modbus Tx/Rx COM Status.
- Configurable Server Connection: Connects on Demand or Always Connected.
- Keep Alive command to maintain socket connection

## Area of Usage



#### How It Works

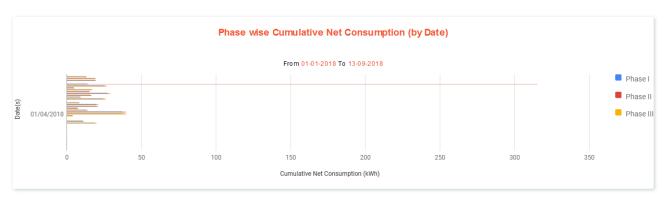


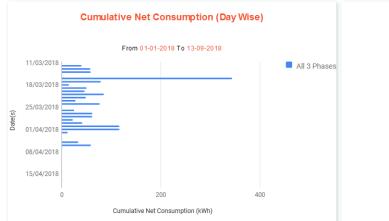
# Web Monitoring Screenshots

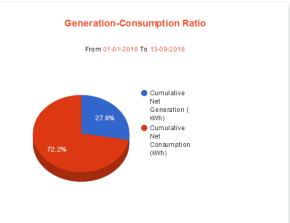




 $^{\star}\text{D}$  is playing the latest data from all the AMR D evices









Incepted in the year of 2014, Techavo Systems are the leading designer,
manufacturer and wholesaler of lot based Products, Meters, Data Logger, Solar Chargers.
Techavo provides Custom Electronic Design, PCB Design, Embedded Systems Design, domain