



- Intelligent operation and maintenance
- Improve power generation
- Reduce costs

Trina Smart Cloud

Tracker-side Photovoltaic Power Station Monitoring Platform



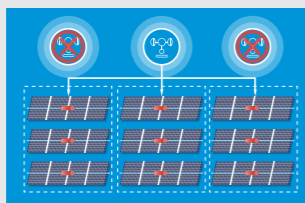
- Intelligent and accurate operation and maintenance**
 - Dynamically monitor the operating status of trackers
 - Real-time fault alarms
 - Key parameter analysis
 - Motor diagnostic and pre-warning
- Precise and intelligent control**
 - Running data query
 - Control trackers operation mode & target angle
 - Set trackers parameters individually & in groups
- Reduce power generation loss**
 - Share meteorological data between NCUs
 - Reduce power generation loss caused by sensor fault and O&M
- System security and stability**
 - Multi-role permission management
 - Network security
 - Support integration with Active Directory authentication system
 - Master/slave redundancy design Hardware & software security and stability
- Digital map positioning**
 - Precisely locate the position & status of each tracker
 - Status display & positioning of key components of trackers
 - 3D digital modeling dynamic display of trackers layout and status

Monitoring & recording & forwarding



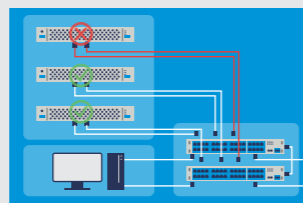
- Dynamically monitor the operating status of trackers
- Store key information of trackers
- Transfer the data to the power station monitoring platform

Meteorological data sharing



- Share meteorological data such as wind speed and irradiance
- Reduce the number of sensors
- Reduce power generation loss caused by sensor operation and maintenance

Multi-level system protection



- System hardware master/slave redundancy technology
- Master & slave servers work together
- Multiple system safeguards ensure that running data would not be lost

Safety guarantee



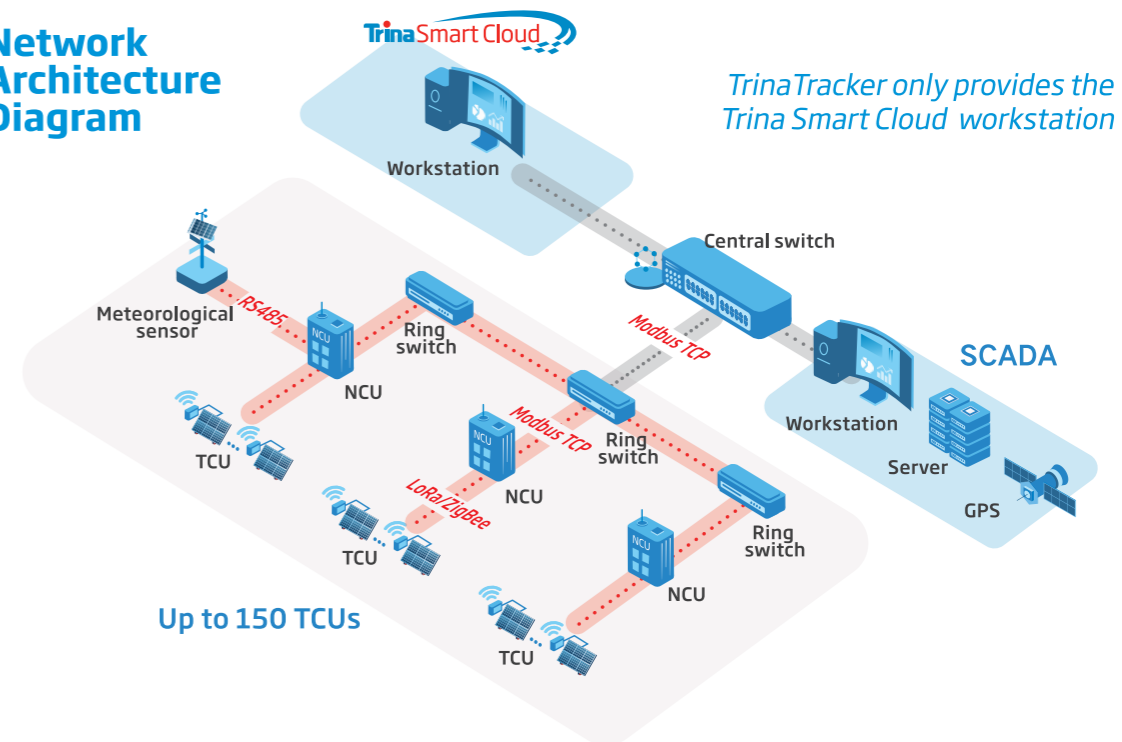
- Access multi-role permission management
- Log management enables historical traceability
- Grant diversified operation permission
- Hierarchical precision management

Function introduction

Basic function		
Power station information display	Tracker availability	Limit angle adjustment
NCU&TCU status monitoring	Working mode switch	Target&actual angle monitoring
Display of wind speed& irradiance information	Digital map	Historical data query
Motor monitoring	Fault alarm	Meteorological data sharing

Upgrade function	
Motor diagnostic and pre-warning	Multi-role permission management
3D digital map (optional)	Master-slave redundancy design (optional)
Support integration with Active Directory authentication system (optional)	Smart back tracking algorithm integrated display and analysis (optional)

Network Architecture Diagram



Hardware Parameters

Content	Configuration
Server form	Tower server/Rack server
CPU	Xeon Series
Memory frequency	3200
RAM	16-32G
Network card	Dual-port Gigabit Ethernet card
Hard disk	1.2-2.4TB
Others	Mouse, Keyboard

The actual configuration parameters of the PC server will be chosen based on the specific project requirements to optimize the solution.