Smart PV Management System

HUAWEI

FusionSolar Cloud Management Center

FusionSolar Plant Management System

Increasing Yields

- Actively increasing yields through PR analysis
- Quick fault clearance, reducing yield losses
- Remote and centralized maintenance, reducing costs

Assisting Decisions

- Decisions on investment plans
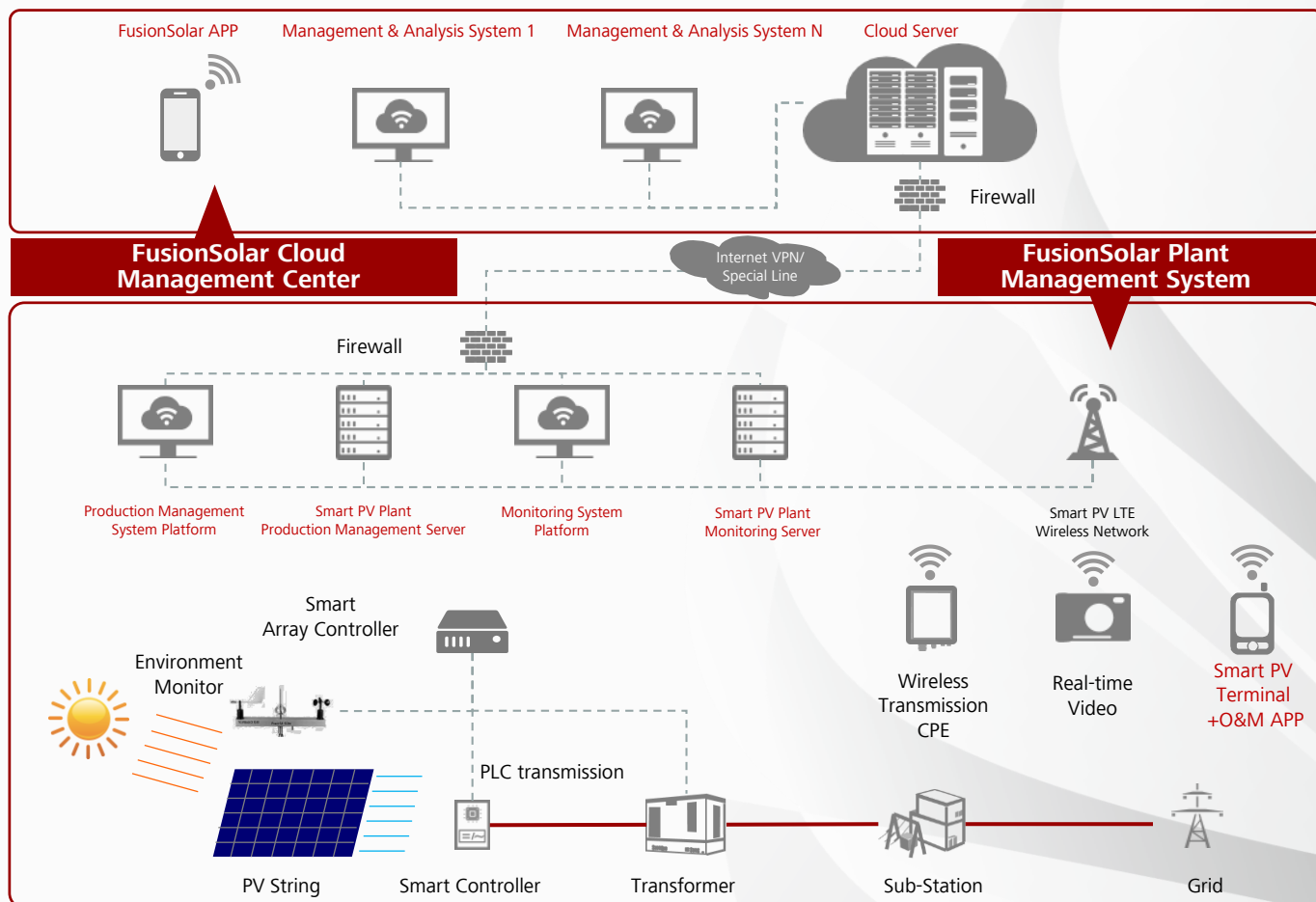- Decisions on equipment choices
- Evaluations on team KPIs

Assuring Safety

- Assuring safe and traceable operations
- Providing reliable data and information
- Assuring full-lifecycle safety of assets

Promoting Financing

- Credible and reliable financial analyses
- Direct display to investors in multiple ways

Network Structure

FusionSolar APP   Management & Analysis System 1   Management & Analysis System N   Cloud Server

Firewall

FusionSolar Cloud Management Center

FusionSolar Plant Management System

Internet VPN/ Special Line

Firewall

Production Management System Platform   Smart PV Plant Production Management Server   Monitoring System Platform   Smart PV Plant Monitoring Server   Smart PV LTE Wireless Network

Smart Array Controller

Environment Monitor

Wireless Transmission CPE

Real-time Video

Smart PV Terminal +O&M APP

PLC transmission

PV String   Smart Controller   Transformer   Sub-Station   Grid

Always Available for Highest Yields

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Smart PV Management System

Functions	FusionSolar Cloud Management Center	Production Management System	Plant Management System	FusionSolar APP	Maintenance APP
Group KPI Monitoring	√			√	
Plant KPI Monitoring	√			√	
Operation, Comparison Report Management	√				
Report Library（Custom）	√				
Group Yields and Loss Analysis	√				
Device Smart Analysis	√				
String Smart Analysis	√				
Maintenance Analysis	√				
Group Assets Management	√				
Plant Monitoring	√				
Plant Management	√				
Remote Experts Diagnosis	√				
Daily Office Work		√			
Work & Operation Sheet Management		√			√
Fault Management		√			√
On-duty Management		√			
Plant assets Management		√			√
Operation Report		√			
Statistical Analysis		√			
Combiner Monitoring			√		
Section Monitoring			√		√
Sub-array Monitoring			√		√
Inverter Monitoring			√		√
String Monitoring			√		√
Alarm Management		√	√		√
AGC/AVC			√		
Plant Digitalization			√		
System Management	√	√	√		

Note: Smart PV LTE Wireless Network deployed in the plants is required for remote experts diagnosis and maintenance APP.

Always Available for Highest Yields