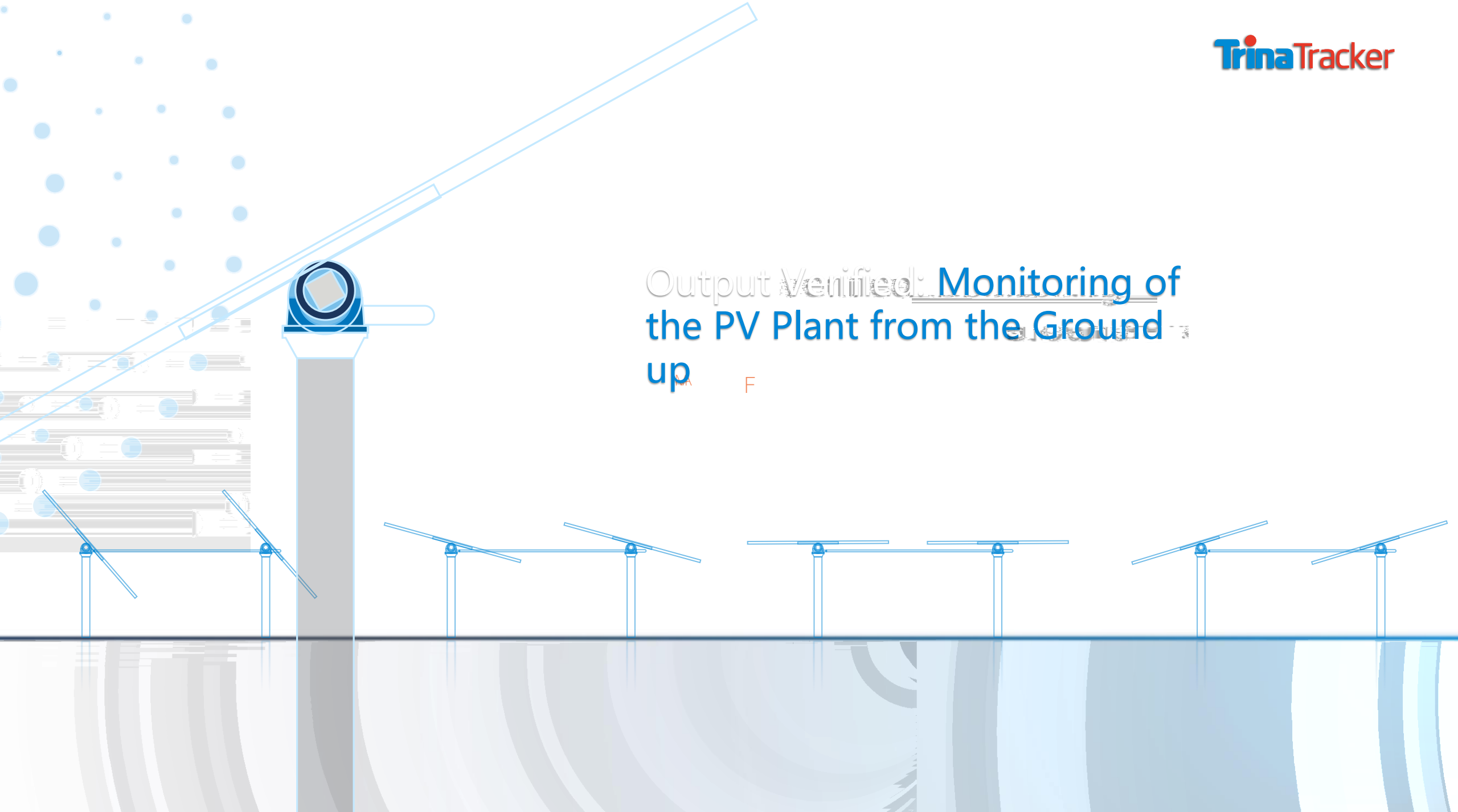
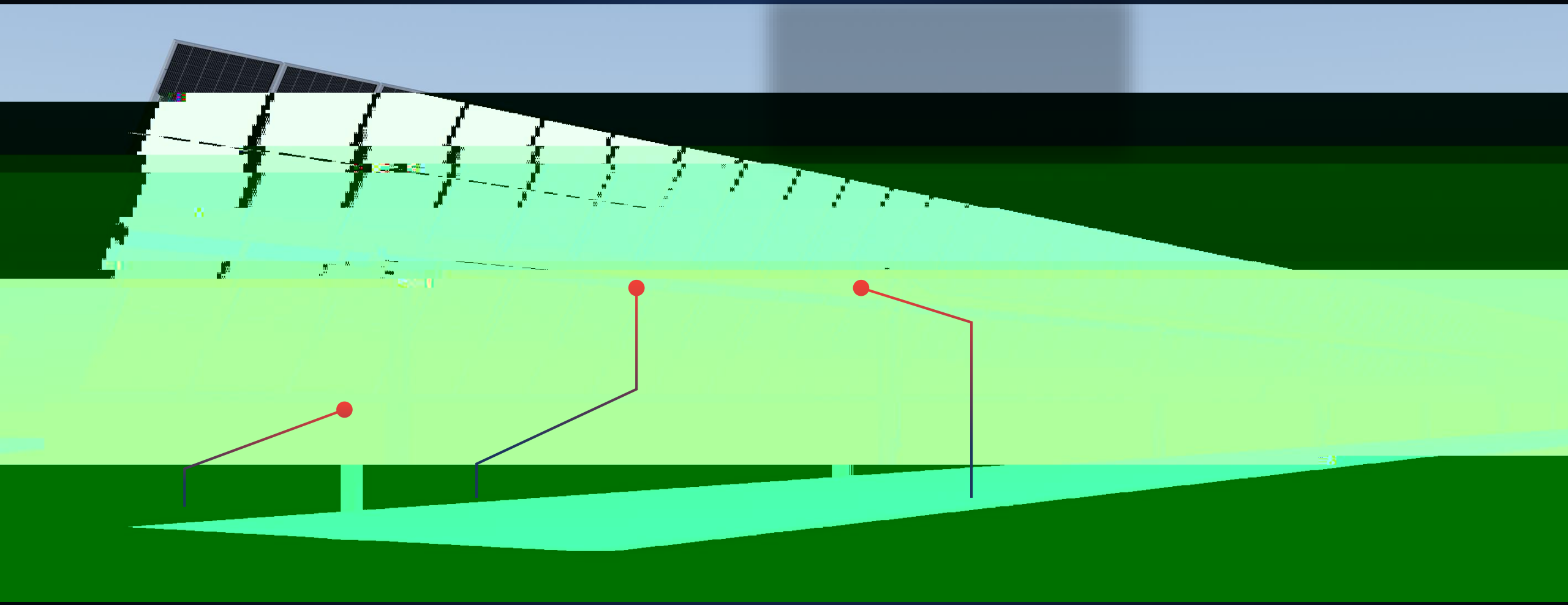
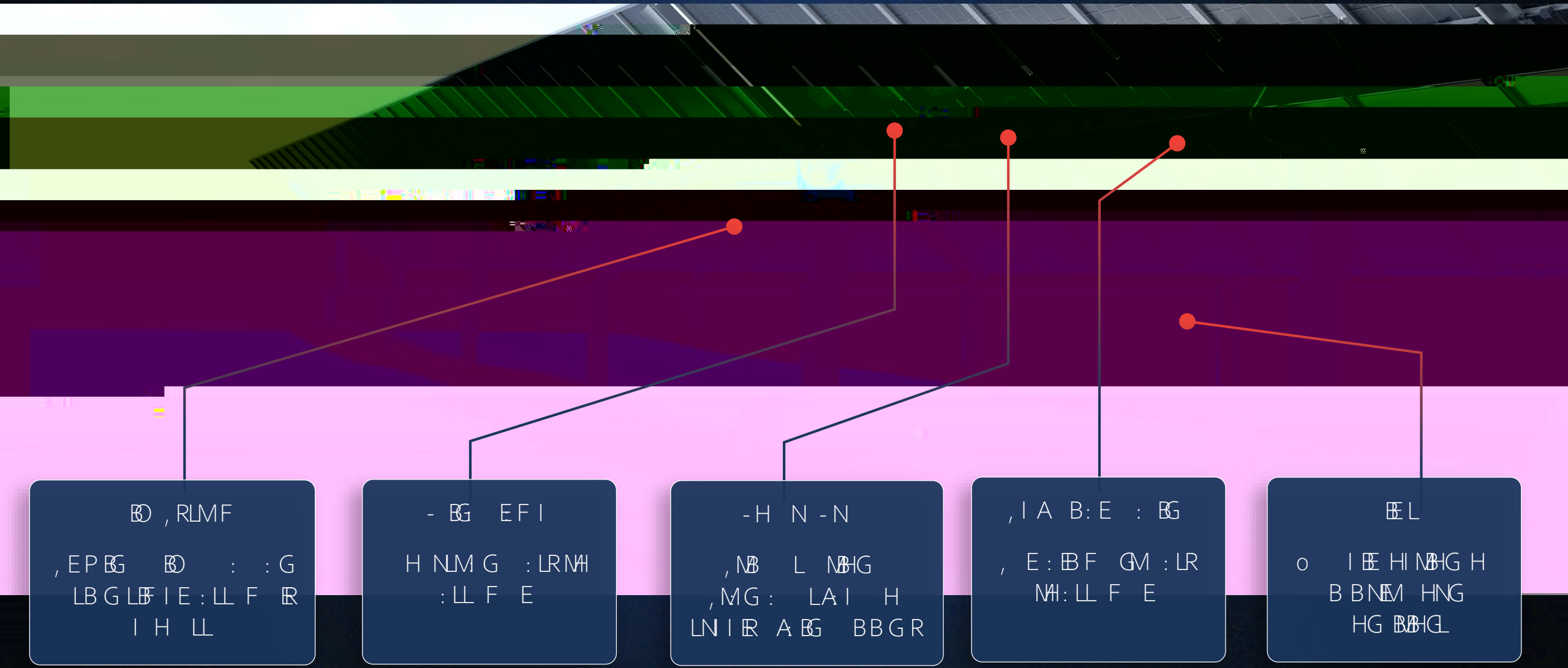
Output Verified: Monitoring of the PV Plant from the Ground up



TrinaTracker



Agile™ 1P Double Row



TrinaTracker

WIND TUNNEL TEST PERFORM BY THE TWO WIND ENGINEERING CONSULTANCY LEADERS

TRINA IOT LAYOUT

BLM E LL BGM EB GMNHM ELHENMBHGI HOB

Business

1.0 PV Product

B A BBGR
F H NEL

2.0 PV System

O EHI F GM G
HGLMN MBHGH E I HP
LMMBHGL

GM EB GM BLMB NM
G R LHENMBHGL

GM EB GMHI MBF BS: MBHGLHENMBHG

3.0 Internet Of Things (IOT)

GM : M G R
L OB L

G R LMH :
BGM EB GMLHENMBHGL

TRINA IOT SOLUTION

GMEEB GM -IEMHF ,A: BG GPFHF GMNF H -

PV power

GMEEB GMEHN
&HGBWH HGMHE
:MLA: BG
,F:M &
, LRLMF

Campus micro-grid

G RFHGBWH BG
G R BBGR
NBF GMF:BGMGG
G RL:OBG :GERLBL

Factory digitalization

GMEEB GMHP BLMBNMBHG
G R GM
H NMBHGLA NEBG
I :MBHGLF:G F GM
GOBHGF GMEF HGBWH BG

Intelligent building

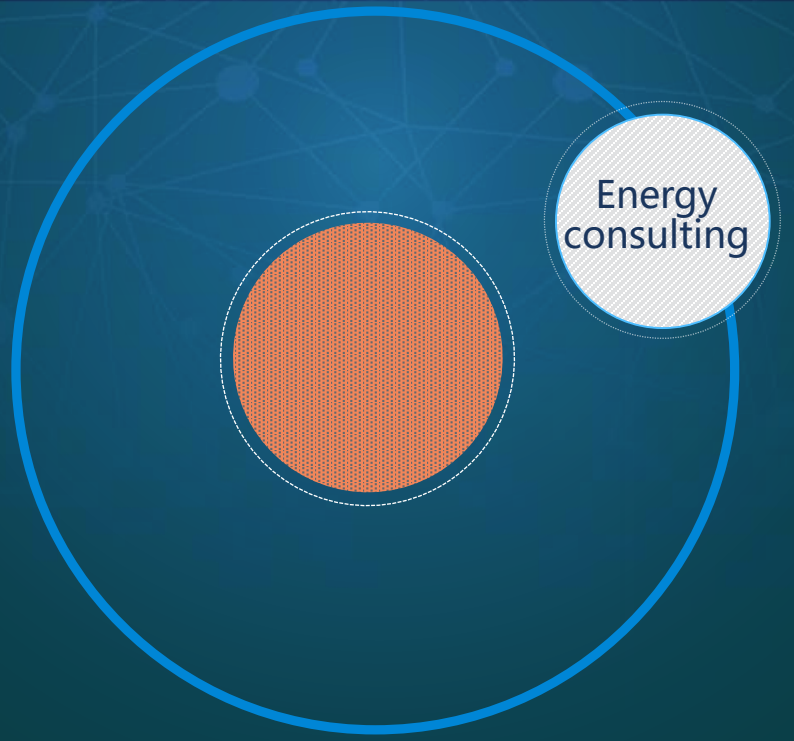
G RF:G F GM
GOBHGF GMEF HGBWH BG
GMEEB GM OB
GMEEB GM HGMHE

Commercial complex

G R HGLNF IMBHG
F:G F GM
I :MBHGLF:G F GM
&:DNBG :LLBLMGM
HN F:G F GM
, NBRLRLMF

Partners

IOT



End users

HP G :MBHG HFI:GR

P G R GMI BL

HP B HFI:GR

, EE E MB BR GMI BL

,F:EE G F BNF LBS
E MB BR NL L

G NLMB E GMI BL

N EB : BBBBL

o BL HF BR

An Intelligent tracking solution

Centralized intelligent operation

System Diagnosis + Smart O&M

Safer & more reliable with “Active Stow Protection”
Smart analysis of operating states, pre-warning O&M instructions
Fault diagnosis and O&M suggestions in advance
Improve O&M efficiency
Reduce O&M cost

Numerical solar tracker solution

Monitoring & Alarm + Online analysis + Remote Control

Data acquisition: Visualization of real-time status and performance
Monitor the system availability
Visualization of alarms & events
Real-time rapid data analysis and processing
Intelligent and precise control remotely and accurately

HOW Smart Cloud CAN BENEFIT O&M?

1. Digital intelligent Real-time monitoring
2. Real-time and rapid Data online analysis
3. Real-time alarm detailed information
4. Remote precise control & command

- Monitors PV plant in real-time and remotely Reduces management costs
- Provides O&M suggestions Improves the reliability of PV power plant
- Discovers faulty equipment in time Takes effective measures Improves O&M efficiency
- Improves O&M efficiency Reduces the total costs

HOW DOES Smart Cloud REDUCE LCOE?

Functionalities

- Integrated alarm protection
  Integrated cleaning robot
  Integrated smart tracking algorithm
  PR diagnosis & analysis
  → Reduces power loss, improves system efficiency → Power Saving
- Quick trouble shooting
  Quick remote commissioning
  Package offer, fast site deployment
  → Improves O&M efficiency reduces O&M cost & time → O&M Saving
- Provides data package API
  Highly visualized Human Machine Interface
  Mature customized configuration
  → User-friendly software, easy to integrate into other platforms → Easy Hardware & Software

Reducing LCOE

WHY DOES Smart Cloud DRIVE SMART O&M?

Online analysis

Analysis

Data

Monitoring and Data acquisition

Control

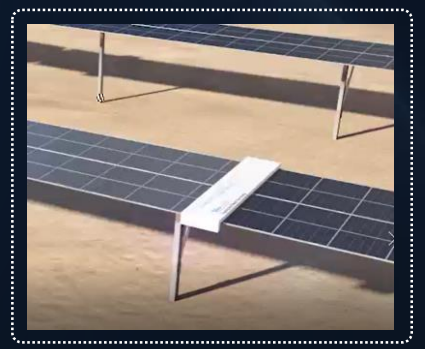
Remote Control

Smart O&M

Fault diagnosis and O&M suggestions in advance

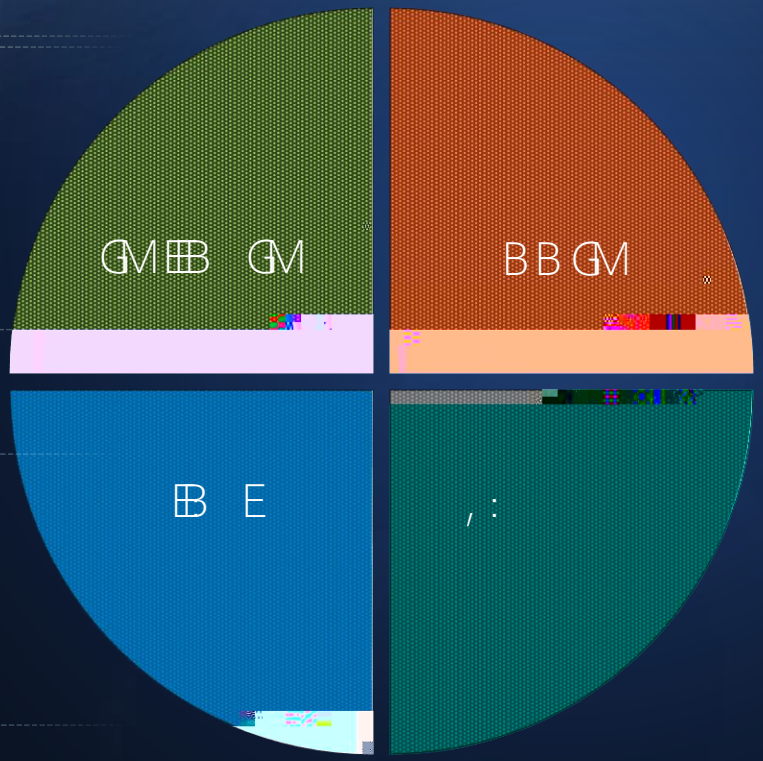
PR Analysis and Recommend-dations

Control of intelligent cleaning robot



15 Output Verified: Monitoring of the PV Plant from the Ground up

For the whole solar power plants: F HM : G : O G F HGBVH BG : G HGVMHELRLMF



Weather Data

NCU

TCU

Inverter

Transformer

PV string