



Monitoring | Diagnostics | Intelligence

One Platform.
Every Asset.
Limitless Possibilities.

INTELLIGENT ASSETS. STRONGER FUTURES.

The AI-Powered Digital Twin Platform for
Smarter Asset Operations



REAL-TIME
VISIBILITY



PREDICTIVE
INTELLIGENCE



OPERATIONAL
EXCELLENCE



SUSTAINABLE
IMPACT



Unifying data. Connecting systems.
Empowering every decision.

SCADA Live



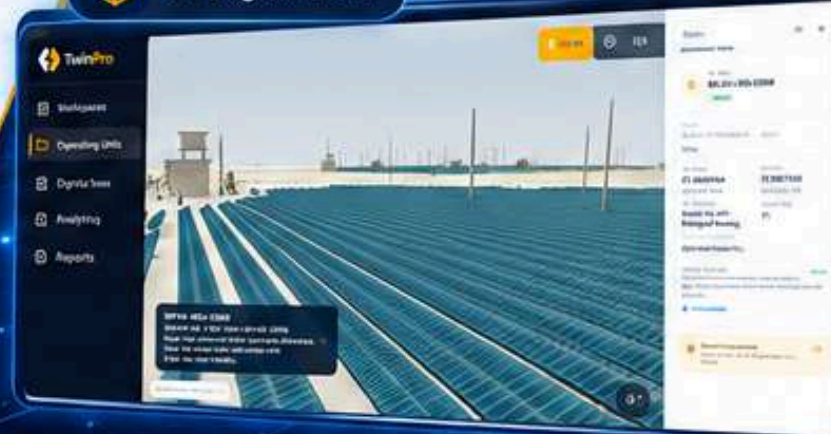
Performance & Analytics



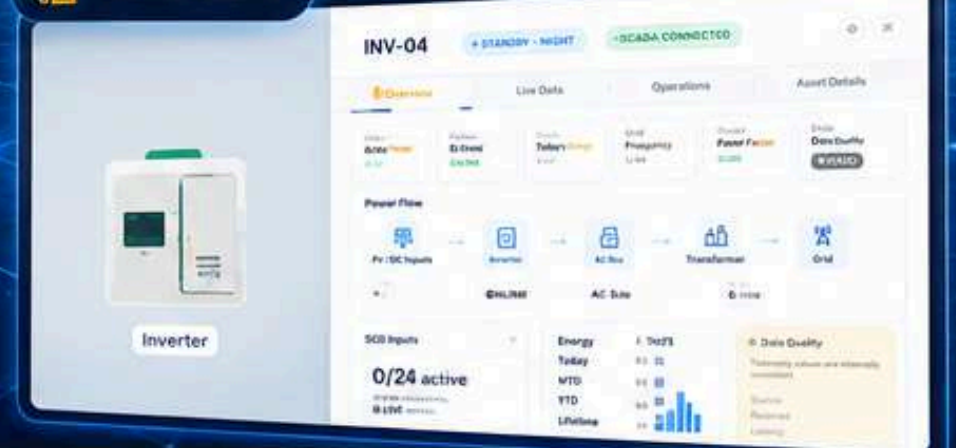
Asset Portfolio Overview



3D Digital Twin



Asset Details



TwinPro by Firstgreen Consulting

twinpro.firstgreen.in

FROM SCADA MONITORING TO INTELLIGENT DASHBOARDS

Move beyond isolated telemetry screens toward connected, contextual and actionable operational intelligence.

TRADITIONAL SCADA MONITORING

SILOED. REACTIVE. LIMITED CONTEXT.

-  **Isolated telemetry views**
Data trapped in SCADA screens and systems
-  **Alarm overload**
Too many alarms, low signal quality
-  **Reactive operations**
Issues detected late, leading to downtime
-  **Manual analysis and reporting**
Time-consuming, error-prone processes
-  **Limited asset context**
No connected view across sites and assets



 Monitoring symptoms. Missing context. Delayed actions.

FROM
SCADA
TO
INTELLIGENT
OPERATIONS

TWINPRO INTELLIGENT DASHBOARD

CONNECTED. CONTEXTUAL. ACTIONABLE.

-  **Real-time Intelligence**
Live data and insights across all assets
-  **Performance Analytics**
Trends, KPIs and predictive insights
-  **Geo-spatial Context**
3D digital twin and site-level visibility
-  **Asset-Level Visibility**
Detailed asset health and operational data
-  **Actionable Workflows**
Prioritise, assign and track actions



Trends & Analytics
Performance, PR and yield insights

3D Digital Twin
Geo-spatial context and asset layout

Asset Details
Real-time asset health and data

 Understand causes. Prioritise actions. Drive performance.



FROM
ALARMS



TO
INSIGHTS



TO
ACTIONS



TO
VALUE

BUILDING THE DIGITAL TWIN

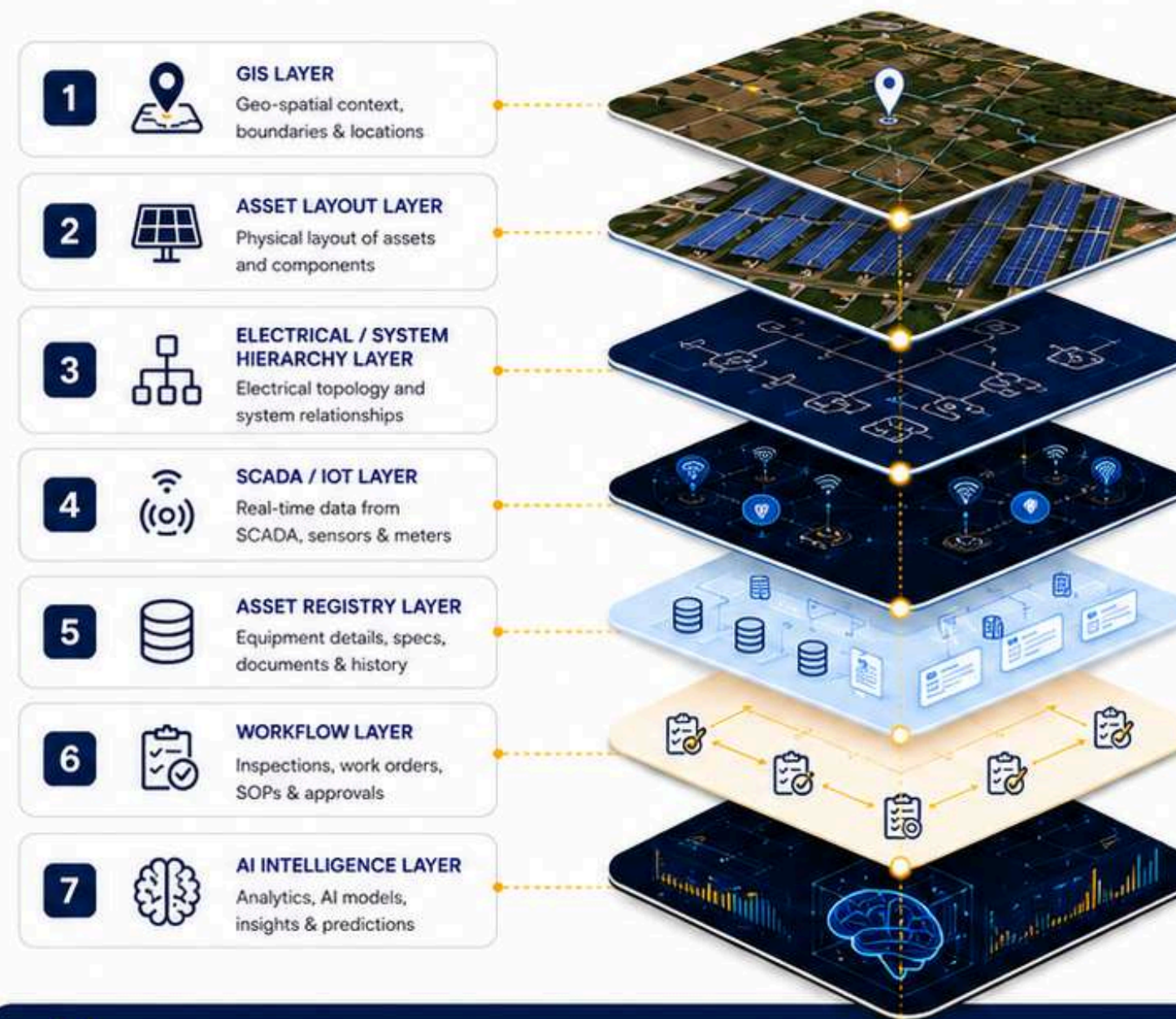
of Infrastructure Assets

TwinPro creates a comprehensive and intelligent digital representation of your assets by unifying data, systems and operations across multiple layers.



One Asset. Many Layers. Complete Intelligence.

Every layer enriches the twin. Every layer drives better decisions.



From Geo to AI.
Every Layer Connected.

A unified digital twin that evolves with your assets and empowers every decision.

WHAT YOU GET



AI Insights
Actionable intelligence derived from unified data



Field Execution
Digital workflows for seamless field operations



Asset Intelligence
360° view of asset health, performance & history



Real-time Visibility
Live monitoring across assets and portfolios



Spatial Awareness
Geo-contextual insights for better decisions



Trusted & Secure
Enterprise-grade security



Cloud Native
Scalable, resilient and future-ready



Open & Flexible
Open APIs and easy integrations



Role-based Access
Secure access for teams and partners



Always Up-to-date
Continuously updated digital twin

DIGITISATION OF FIELD OPERATIONS

Capture. Validate. Act. All in One Platform.

TwinPro digitises every inspection and operational activity across your assets with guided workflows, real-time data capture and AI validation.

1 VISUAL INSPECTION



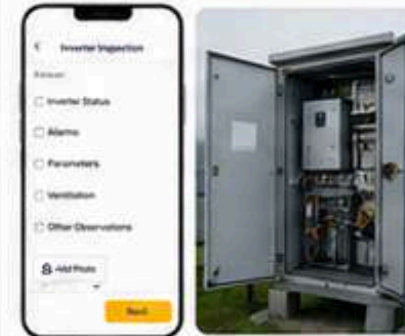
Module, structure and site visual checks

2 THERMAL INSPECTION



Hotspot detection using thermal imaging

3 INVERTER INSPECTION



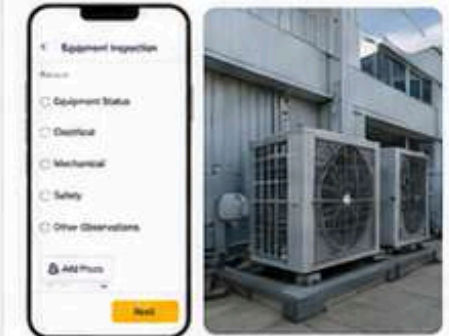
Health check of inverters and key parameters

4 WIND TURBINE INSPECTION



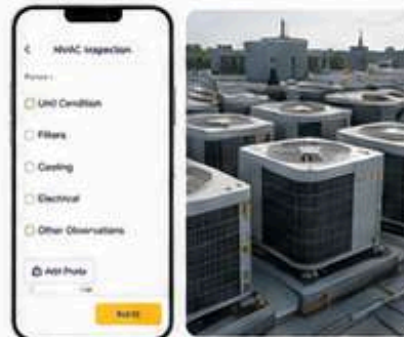
Turbine, blade, nacelle and tower inspections

5 BUILDING EQUIPMENT INSPECTION



Critical equipment operational checks

6 HVAC INSPECTION



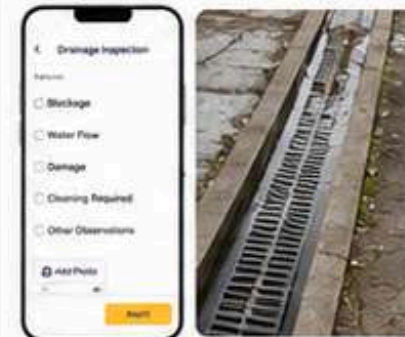
HVAC system performance checks

7 SECURITY INSPECTION



Security systems and infrastructure checks

8 DRAINAGE INSPECTION



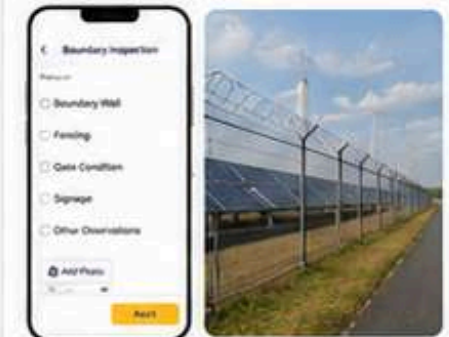
Drainage, water flow and blockage checks

9 VEGETATION MONITORING



Vegetation growth and shading checks

10 BOUNDARY INSPECTION



Perimeter and boundary integrity checks



**One Platform.
All Inspections.**

Standardised. Traceable.
Actionable.



Guided Workflows
Step-by-step inspection workflows



GPS Tagging
Geo-tag every observation with accuracy



Photo & Evidence
Capture photo/video evidence in real-time



AI Validation
AI-powered validation and anomaly detection



Instant Reporting
Real-time reports and instant insights

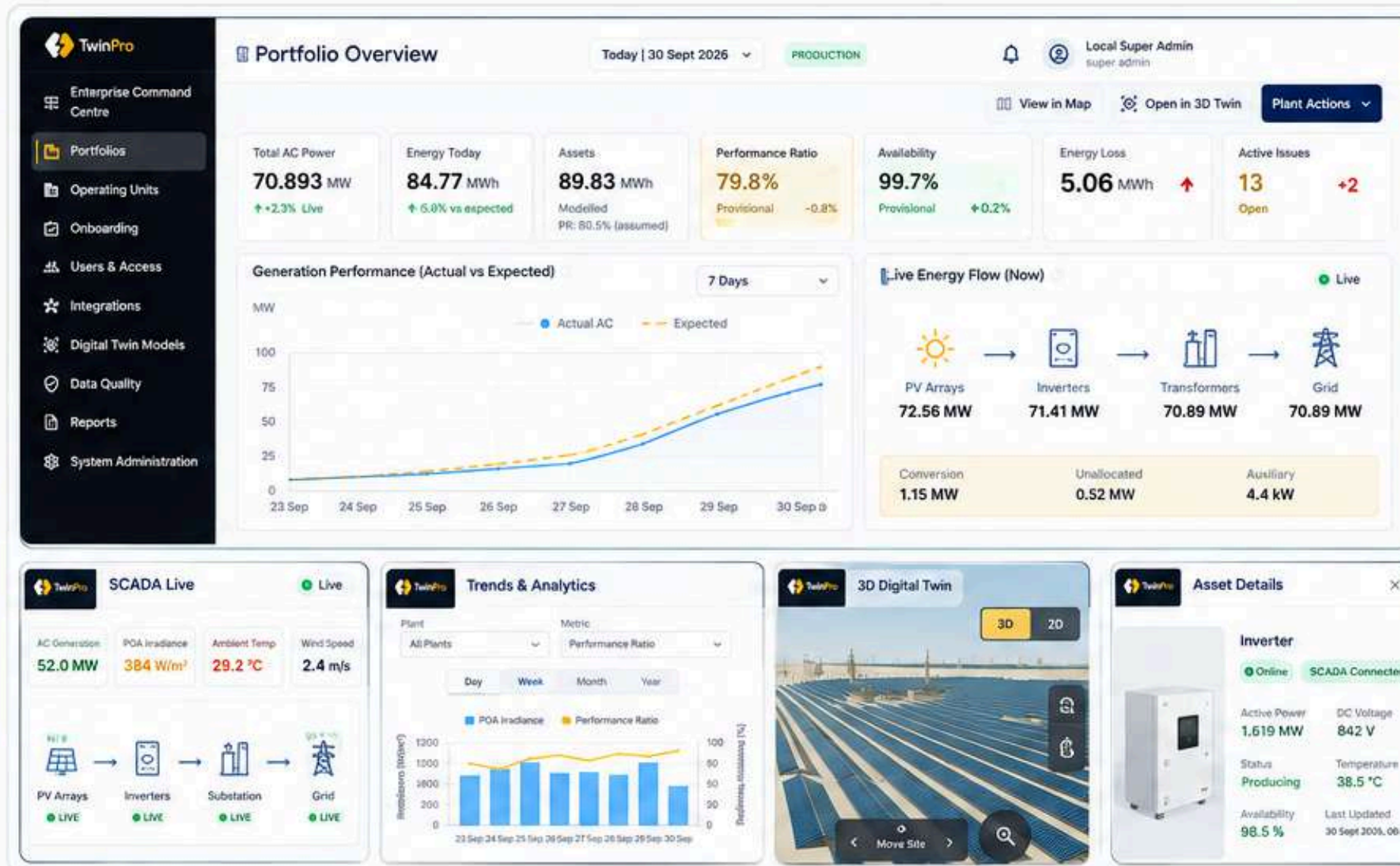
INTELLIGENT DASHBOARDS FOR SMARTER DECISIONS

TwinPro dashboards bring all your asset and operational data together in one place, delivering real-time visibility, actionable insights and predictive intelligence.



All Your Data. One View.

Customisable dashboards for every role and every decision.



Real-time Visibility

Live monitoring of generation, performance and asset health



Smart Alerts

AI-driven alerts with context, priority and recommended actions



Geo-spatial Insights

Interactive maps for asset locations and issue identification



Performance Analytics

Deep insights with KPIs, trends and comparative analysis



Customisable Views

Role-based dashboards tailored to your needs



Single Source of Truth

Unified view of all assets and operations



Faster Decision-Making

Actionable insights in real-time



Improved Efficiency

Optimise performance and reduce losses



Proactive Operations

Prevent issues before they impact performance



Better Sustainability

Track ESG metrics and environmental impact



Team Collaboration

Share insights and drive alignment across teams

AI-POWERED ANOMALY DETECTION AND PREDICTIVE INTELLIGENCE

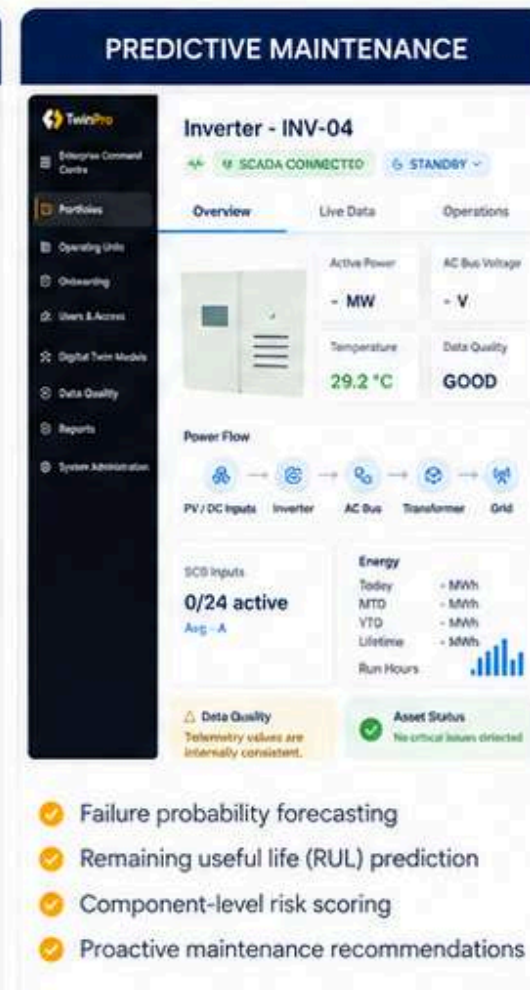
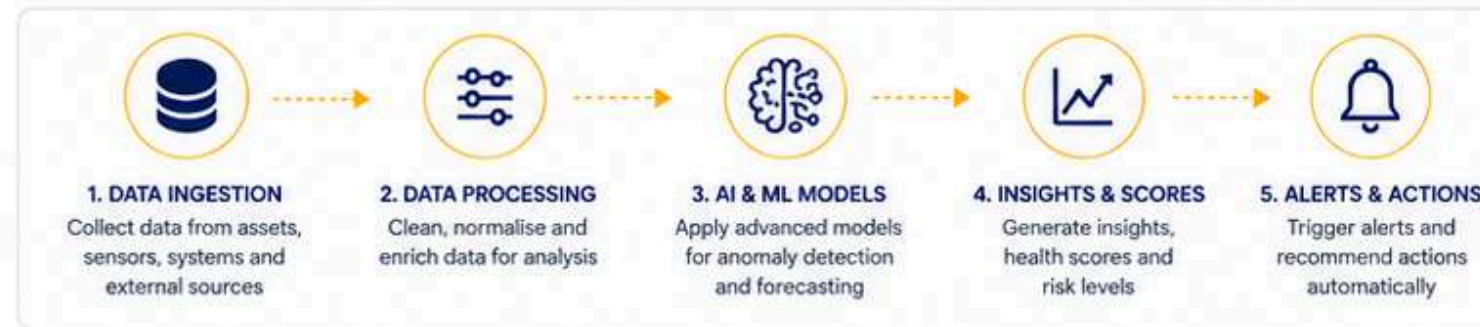
Detect issues early. Prevent downtime.
Optimise performance.

TwinPro leverages advanced AI models and historical data to detect anomalies, predict failures and recommend actions before they impact operations.



**Intelligence That Acts.
Impact That Lasts.**

From detection to decision,
AI drives every step.



Early Issue Detection
Detect anomalies early and prevent failures



Reduced Downtime
Minimise outages and maintenance costs



Improved Reliability
Increase asset reliability and lifespan



Higher Efficiency
Optimise performance and energy generation



Sustainability Impact
Reduce carbon footprint and environmental impact



Data-driven Decisions
Empower teams with AI-powered actionable insights

BUILT FOR INTEGRATION



SCADA / PLC
Seamless data integration



IoT Sensors
Real-time data connectivity



CMMS / EAM
Work order and asset data integration



Cloud Platforms
AWS, Azure, GCP and on-prem



Third-party Systems
Open APIs for flexible integrations



See your solar plant take shape as construction progresses — your digital twin evolves in real time.

Age Group	Number of People
18-24	10
25-34	20
35-44	30

Turn plans into progress with a real-time digital twin.

Ready Work

Blocked Work

QA Backlog

Schedule Variance

Assembly Maturity

Foundation	Vertical Posts	Rafters	Purlins	MMS Complete	MMS QA Accepted	Modules Installed	Module QA Accepted	DC Complete	Mechanical Complete
53.4%	47.5%	41.3%	36.1%	31.0%	26.9%	22.4%	20.4%	14.5%	6.2%

Block 18 Digital Twin

Asset Inspector

Component	Req.	Installed	Declared	Accepted
Foundation	6	6	6	6
Vertical Posts	6	6	6	6
Rafters	4	2	0	0
Purlins	10	0	0	0
Bracing	4	0	0	0
Modules	58	0	0	0

Zone x Stage Matrix (% complete)

Zone	M10	M20	M30	M40	M45	M50	M60	M65	M70	M80	M90
Zone A	79	68	38	32	44	43	38	34	38	36	2
Zone B	38	00	47	38	37	31	27	28	38	7	9
Zone C	04	42	35	38	23	31	36	36	19	8	0
Zone D	38	38	24	38	35	15	8	8	8	1	0

Ready Work

Task	Count
Rafter Installation	265
Purlin Installation	240
MMS Completion	190

Top Constraints

Constraint	Count
Rafter crew productivity	73
Purlin steel availability	44
QA inspection backlog	28

Look-Ahead - Next 14 Days

Task	Ready	Scheduled	Need
Rafter Installation	385	Scheduled 500	85/day
Purlin Installation	240	Scheduled 420	81/day
MMS Completion	180	Scheduled 320	82/day

Visualize. Analyze. Decide faster.



SOLAR INTELLIGENCE FOR A BRIGHTER TOMORROW.

TwinPro Forecasting & Scheduling

TURN DATA INTO
DEFINITE ACTIONS.

AI-powered forecasting and scheduling for solar assets — combining physics, weather, tracker response and real-time data to deliver accurate, actionable insights.



HIGHER ACCURACY

Physics + ML + real plant data



SMART SCHEDULING

Align operations with forecast



REAL-TIME RECONCILIATION

Actual vs forecast vs plan



MAXIMISE REVENUE

Better decisions, lower risk



- Dashboard
- Portfolio
- Operating Units
- Forecasting & Scheduling
 - Forecast Overview
 - Plant Forecast
 - Schedule
 - Actual vs Forecast
 - Reports
- Under Construction
- Assets
- Alarms & Work Orders
- Analytics
- Reports
- Settings

TwinPro Platform v4.3.0

Forecasting & Scheduling > Plant Forecast

SK-1 (100 MW)

28/09/2026

Live Data



Peak Power (Actual)

94.8 MW

↑ +2.3% vs forecast



Daily Energy (Actual)

742.3 MWh

↑ +1.8% vs forecast



Forecast Accuracy

96.2%

(MAPE)



Irradiance (POA)

876 W/m²

Peak



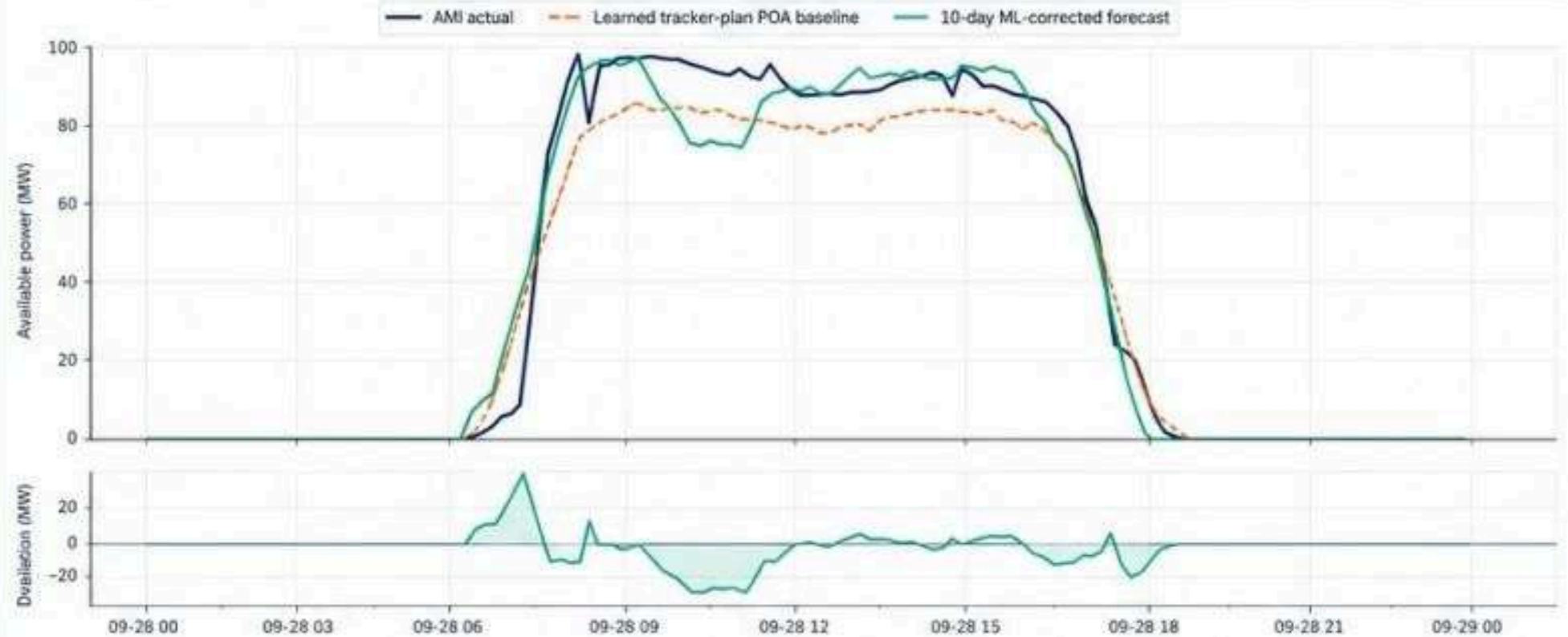
Tracker Status

Normal

Backtracking active

SK-1 | 28 September 2026 | 10-minute tracker-response forecast reconciliation

Power (MW)



Training: 21 Sep-27 Sep only (7 measured days); no target-day WMS/AMI inputs; no AC clipping. Tracker-plan POA response learnt from prior WMS; tracker angle/backtracking/status not yet mapped.

Power Forecast

Energy Forecast

Schedule

Weather

Tracker Analysis

Download



WEATHER INTEGRATION

Global APIs & on-site sensors



AI/ML MODELS

Learns from historical data



TRACKER RESPONSE

Backtracking & angle modelling



SHORT-TERM & MEDIUM-TERM

10-minute to 7-day forecasts



ACTIONABLE OUTPUTS

Optimised schedules & alerts

TwinPro Visuals & Diagnostics

CONNECT YOUR
SECURITY CAMERAS
FOR ASSET MONITORING.

Bring live camera feeds, AI-powered detection, safety monitoring and incident workflows into one operational platform for renewable assets.

 **From Camera to Action.**
See. Detect. Diagnose. Respond.

 **CCTV / IP Cameras**
Wide compatibility
and easy integration

 **YOLO Analytics**
Real-time object
detection

 **Restricted Zone
Monitoring**
Virtual zones and
safety boundaries

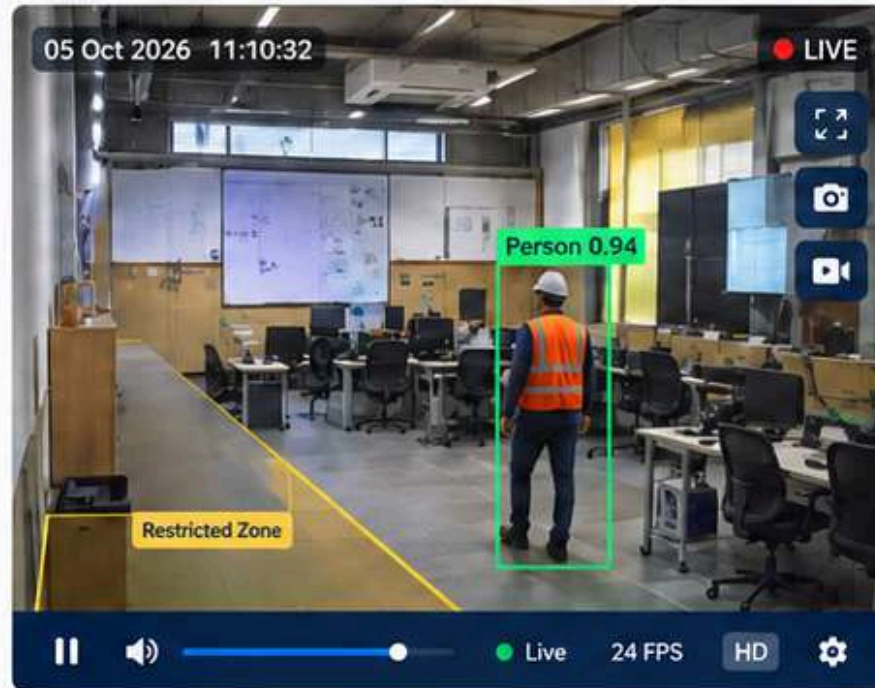
 **Safety & Intrusion Alerts**
People, vehicles, PPE
and unauthorised access

 **Snapshot / Playback**
Review footage
and verify events

 **Work Orders & Evidence**
Convert incidents
into action

SEE MORE. RESPOND FASTER.
VISUAL INTELLIGENCE FOR SMARTER ASSET OPERATIONS.

 **CCTV-03** ● Live
Assembly Area | Block 03 | Solar Plant



Recent Detections [View All](#)



11:09:48
Person (0.94)



10:52:17
No detection



10:21:03
Person (0.87)



09:48:32
Vehicle (0.91)

Live View

Analytics

Events

Details



Camera Status



Online
Stream healthy



24 FPS
Latency 210 ms



Last heartbeat
4 secs ago

AI Detection (YOLO)

Model v8.1

Active



Person
1



Vehicle
0



PPE Compliance
1



Intrusion
0

Active Alerts

[View All \(1\)](#)



Person detected in restricted zone
05 Oct 2026 11:09:48 | Confidence: 94%

P0



 Snapshot

 Playback

 Full Screen

 Create Work Order

Camera Information

Camera ID	CCTV-03	Analytics Engine	YOLO v8.1
Location	Assembly Area, Block 03	Zones	Restricted Zone (1)
Type	IP Camera (Fixed)	Installation Date	12 Aug 2026
Resolution	1920 x 1080	Last Maintenance	28 Sep 2026
Codec	H.264	Network Status	Stable
RTSP Endpoint	rtsp://*****	Remarks	-

TWINPRO TECHNICIAN APP RIGHT INSIGHTS. ON THE GROUND.

Empower your field teams with real-time data, guided workflows and instant issue resolution — anytime, anywhere.



FASTER RESOLUTION

Identify and resolve issues quickly



ON-SITE VISIBILITY

Access live asset data in the field



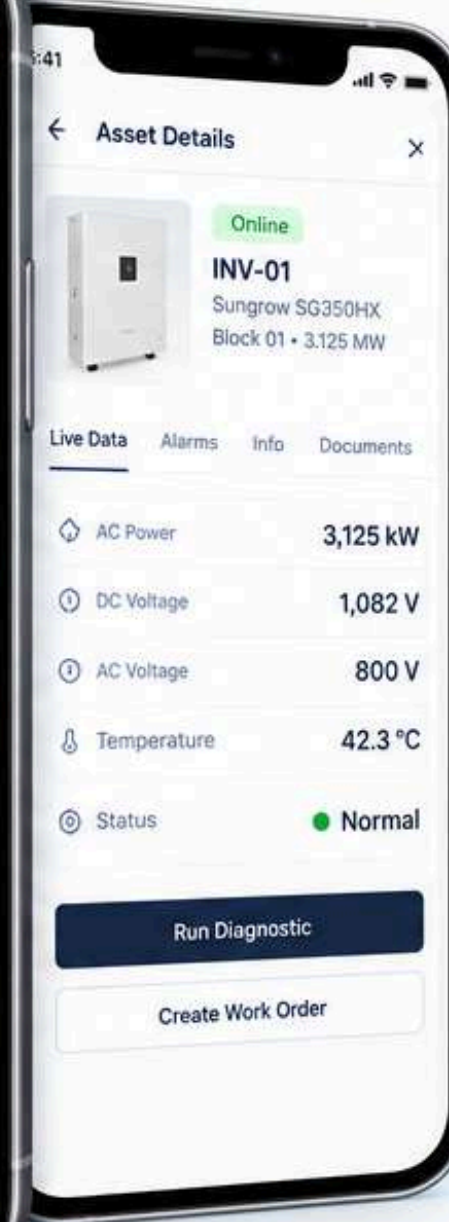
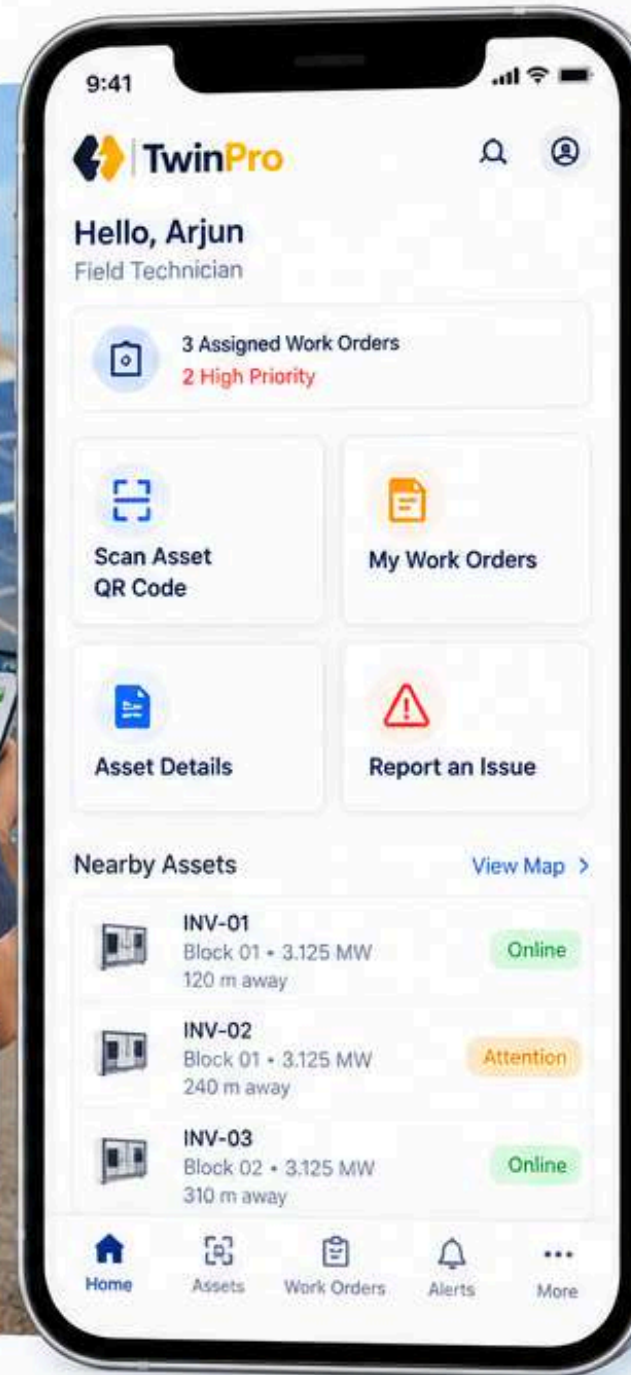
GUIDED WORKFLOWS

Standardised maintenance process



OFFLINE SUPPORT

Work even in low-connectivity areas



Real-time Asset Data

Live status, alarms and performance



Simplified Maintenance

Step-by-step guidance and checklists



Instant Notifications

Get alerted to critical issues on the go



Capture & Share

Add notes, photos and close work orders



Better Collaboration

Keep teams aligned across sites



Routine Inspections

Capture data and verify asset health



Fault Diagnosis

Identify root cause faster



Preventive Maintenance

Execute scheduled tasks efficiently



Work Order Management

Receive, update and close work orders



Site Navigation

Locate assets with interactive maps



Offline Capabilities

Sync data when back online

ONE PLATFORM. MANY ASSETS. EVERY SECTOR.

TwinPro is built to scale across industries and asset types—delivering real-time visibility, intelligent insights and measurable impact everywhere.



Adaptable. Scalable. Impactful.

Whether it's clean energy, critical infrastructure or connected assets, TwinPro adapts to your world.

APPLICATION ACROSS KEY SECTORS



WIND



- Turbine performance monitoring
- Blade and gearbox health analytics
- Predictive maintenance and outage reduction
- SCADA & condition monitoring



BESS



- Battery health and SOH tracking
- Thermal monitoring and fire prevention
- Cycle analysis and degradation insights
- Performance optimisation



BUILDINGS



- HVAC and energy performance
- Equipment and asset monitoring
- Indoor environment and comfort
- Fault detection and predictive maintenance



TELECOMS



- Site and infrastructure monitoring
- Power system and battery monitoring
- Environmental monitoring
- Alarms and remote management



SUBSTATIONS



- Asset health monitoring
- Thermal and partial discharge analytics
- Protection & relay performance
- Outage prediction and risk mitigation



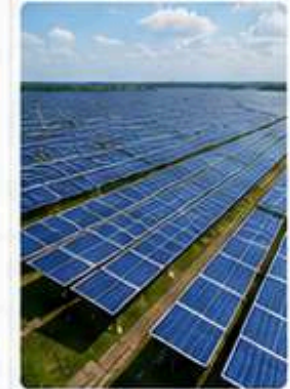
OTHER INDUSTRIES



- Process and asset monitoring
- Energy and utility optimisation
- Predictive maintenance
- Operational excellence at scale



AND MORE...



- Solar plants
- Hydro plants
- Water & wastewater
- Oil & gas
- Transport & logistics
- And beyond



One Platform. Endless Possibilities.

Configure TwinPro to your assets, your workflows and your goals—across any sector, anywhere.



Across
7+
Sectors



Monitoring
1000+
Asset Types



Deployed in
50+
Countries



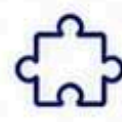
Trusted by
Global
Enterprises



Industry-agnostic
Built to fit diverse assets and environments



Secure & Reliable
Enterprise-grade security and data integrity



Easy Integration
Works with existing systems and IT landscapes



Cloud-native
Scalable, resilient and future-ready



Proven Impact
Delivering value across industries worldwide

INTELLIGENT TODAY. SUSTAINABLE TOMORROW.

TwinPro empowers your teams with real-time visibility, predictive intelligence and actionable insights to optimise performance, reduce risk and drive a sustainable future.



Ready to transform your asset operations?

Let's build a smarter, safer and more efficient future together.



Maximise
Performance



Minimise
Risk



Drive
Sustainability



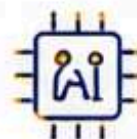
Empower
Decisions

WHY TWINPRO?



**Purpose-built
for Energy Assets**

Deep domain expertise
that delivers results



**AI-first
Innovation**

Advanced AI models
for real-world impact



**Scalable &
Future-ready**

Built to grow with your
assets and ambitions



**Secure &
Trusted**

Enterprise-grade security
and data governance



**Partner in
Your Success**

Collaborative, responsive
and reliable



Let's start a conversation.

We're here to help you unlock the
full potential of your assets.



Email Us
hello@twinpro.ai



Call Us
[+91 98765 43210](tel:+919876543210)



Visit Us
twinpro.firstgreen.in



Scan to Connect

Discover how TwinPro
can transform your
asset operations.