



AI-DRIVEN ENERGY SAVER

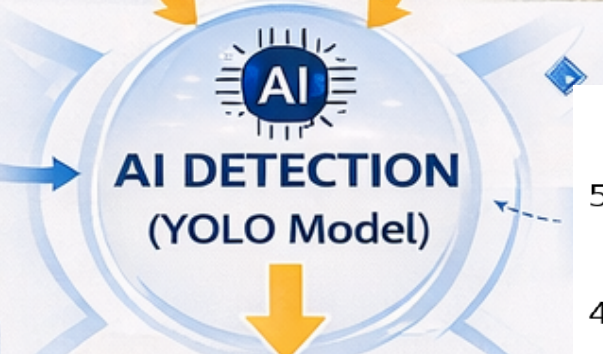
RGB & Thermal Intelligence for Smart Solar O&M

By Altius Surya Tech



1. CHALLENGES IN UTILITY-SCALE SOLAR O&M

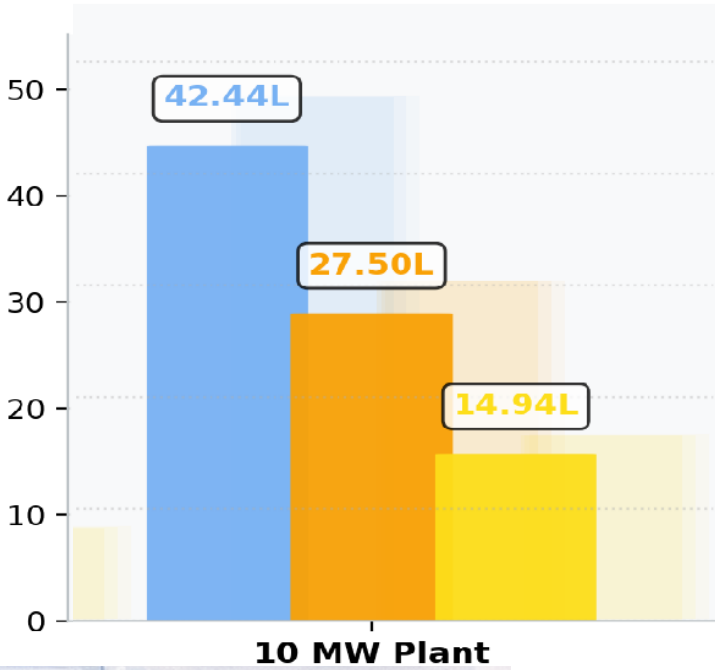
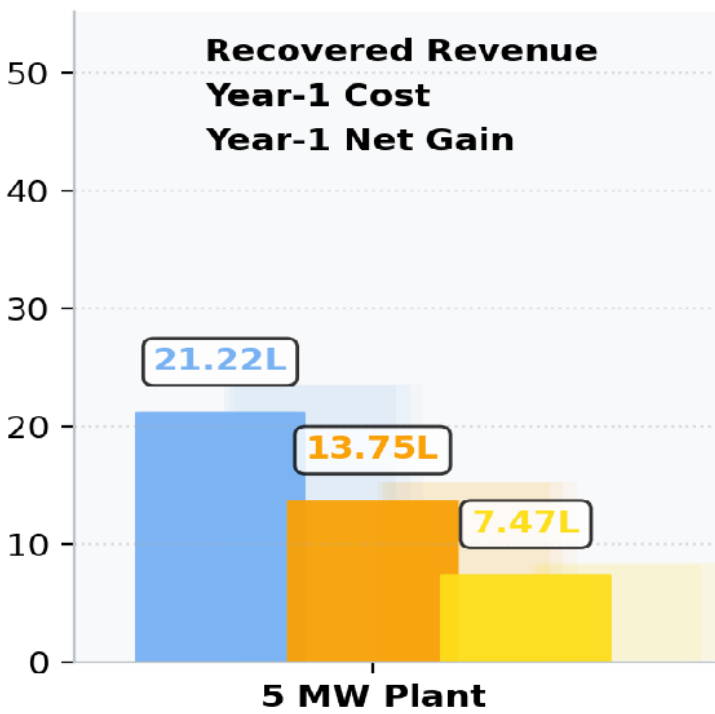
- Hidden Thermal Losses**
Undetected hotspots reduce panel efficiency.
- Resource Inefficiency**
Routine cleaning wastes water and labor.
- Scalability Gap**
Manual inspection cannot scale



Data Capture

- Drones
- Cameras
- Handheld Devices

ILLUSTRATIVE ROI



2. SOLUTION – AI Platform BY Altius Surya Tech

An Ai-based solar inspection system that analyses RGB and thermal images to detect faults and optimise maintenance.

Multi-Modal Data

- RGB Panel Images
- Thermal Inspection Images

Electrical Monitoring Data

4. Key Features

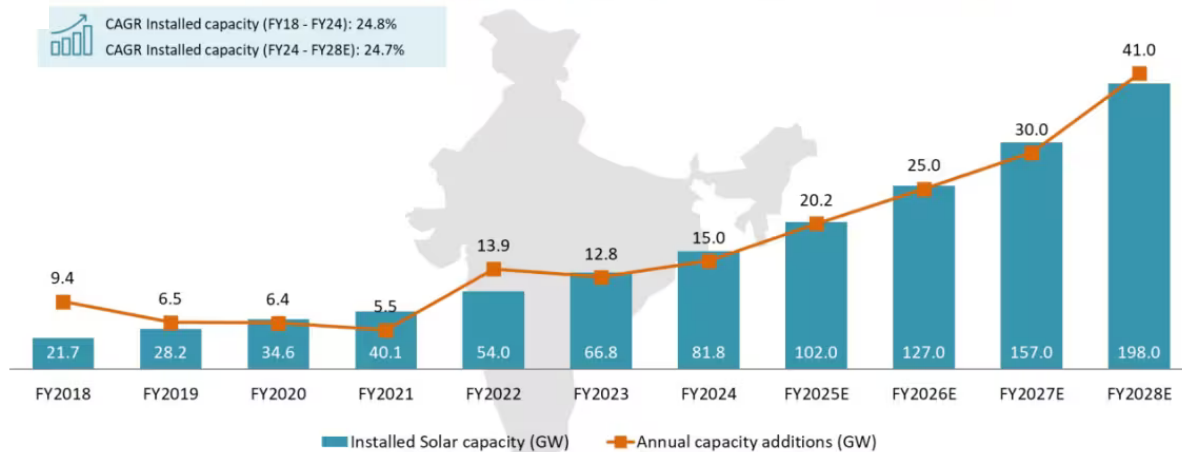
- Real-time Defect Detection
- Thermal Hotspot Analysis
- Panel-level Inspection
- Automated Reports

Benefits

- Higher Efficiency
- Water Savings
- Scalable Solar O&M

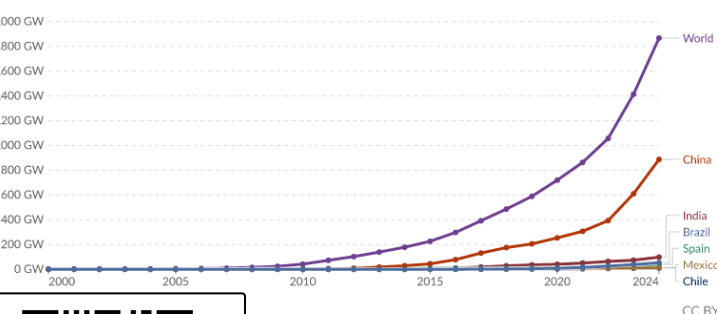
Growth in Solar installed capacity, India, GW, FY2018 – FY2028E

CAGR Installed capacity (FY18 - FY24): 24.8%
CAGR Installed capacity (FY24 - FY28E): 24.7%



Source: CEA, Frost & Sullivan Analysis

Installed solar energy capacity
Cumulative installed solar capacity, measured in gigawatts (GW).



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