

AI Analytics Kit for Solar Off-Grid Pumps & Agro-Machinery



Altius Surya Tech

Optimizing **Solar Irrigation** Performance with AI-Driven Analytics

AGRICULTURAL ENERGY NEEDS



PROBLEM STATEMENT

- Solar pump performance varies due to weather
- Pump speed slows
 - Low water output
- Crop stress & reduced Farmer **ROI**
- Slower adoption of solar irrigation

MARKET OPPORTUNITY



OUR SOLUTION – AI ANALYTICS KIT FOR SOLAR PUMPS

Without AI Kit



- Low Water Flow
- Inconsistent Pump Performance

AI Architecture



With AI Kit



- Stable Operation
- Strong Water Flow

KEY INNOVATION

- AI-Powered Predictive Control
- Smart MPPT Optimization
- Remote Monitoring & Diagnostics
- Plug & Play – Retrofit & Scalable

SCALABILITY



Retrofit to Existing Pumps

Compatible with New Installations

ILLUSTRATIVE ROI



IMPACT



Reliable Irrigation



Higher Pump Efficiency



Optimized Water Use



Increased Farmer ROI



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