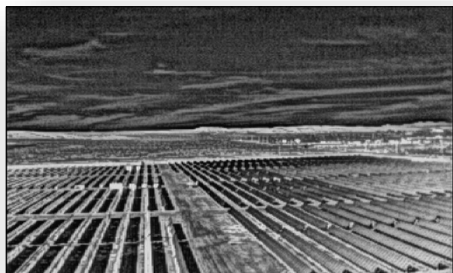# SKYDRONE UAVS

Unmanned Aerial Vehicle Services

Unmanned Aerial Vehicle Systems
for the
Solar Industry

Automated and highly repeatable processes for inspecting solar sites. This at a fraction of the cost and time of standard inspections to maximize performance of your assets.

The Concept

Solar energy power production is complex. To maintain peak efficiency and profitability of your facility requires cost intensive maintenance to ensure Panel, Inverter, Interconnection & Tracker Health which attributes to the bottom line. Movement, storage and analysis of huge amounts of data is cumbersome and costly.

Thermal and high definition data collection is of paramount importance and can determine the health of the generation, collection, substation and Tie line systems faster and more accurately than any other processes which are normally time intensive and error prone.

Doing it from the sky captures all the data rapidly, safely and efficiently. This methodology is highly repeatable to derive high ROI through automation of data collection & reporting processes which reduces the continual inspection and maintenance costs dramatically while im-

Our Value Proposition

Working with our industry partners we will train personnel and continue to develop a seamless technology which reduces maintenance costs and improves production dramatically.

- Automated flight
- Multi Engine, battery & flight control UAV to virtually eliminate flight failures
- Automated on board processing and report generation.
- Automated aerial application of cleaning solution.
- Dual purpose detection capability (remove cameras for closer ground inspection)
- Software detection of problem areas (remove human element)
- Develop safe and consistent corporate flight practices
- Develop QA/QC plans and concepts using automated technology
- Train your team for FAA and flight specific use of UAV

Our Product & Capabilities

We have state of the art unmanned aerial vehicle with 4K capable video camera, high resolution thermal IR camera and onboard mission control and processing computer. We incorporate a unique capability utilizing onboard processing to reduce the amount of data for transfer to our servers significantly. Clients can view the reports and videos on our web-portal. Our experienced and licensed staff ensure we operate the UAV with highest safety standards and provide same expertise to client reps to acquire their license and FAA certification.

Along with PV modules, we can detect module connection issues, DC wiring and management, connection boxes, motors, gears, trackers, inverters, transformers, MV/HV Transmission Lines and Substations.

We assist our partners through a wealth of high-quality and cost-effective automated inspection services to Operation & Maintenance Service providers, EPCs and Solar plant owners. Our mission is to continuously work to refine our products and services listed below to suit your site specific needs.

- **Operations Optimization Consulting**
- **RF Spectral Analysis**
- **Safety Protocols**
- **Flight Planning**
- **UAV maintenance plans**
- **Flight operations manual**
- **Safety integration & Manual**
- **Camera Certifications**

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